
BID ADDENDUM #3

**Nanuet Union Free School District
103 Church Street
Nanuet, NY 10954**

Nanuet Bond Projects Phase 3

Date: June 29, 2023

NOTICE TO CONTRACTORS

This Addendum issued prior to receipt of Bid shall and does hereby become a part of the Construction Documents for the above project.

All principal Contractors shall be responsible for seeing that their Subcontractors are properly apprised of the contents of this Addendum.

All information contained in this Addendum shall supersede and shall take precedence over any conflicting information in the original Bidding Documents dated **June 6, 2023**, and all previous addenda.

All Contractors shall acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to do so may subject Bidder to disqualification.

CLARIFICATIONS:

1. Clarify detail elevation of casework to be reinstalled at Barr for HVAC.
Response: Refer to Keynote 4 on Mechanical Drawings for description and dimensions of cabinets to be reinstalled in Barr MS classrooms.
2. Is it the intent to have Siemens controllers for the Barr Unit Ventilators to match the existing district wide BAS? Specifically, reference BM-M602 controls diagram, is the "DDC UV TERMINAL UNIT CONTROLLER" a factory furnished and installed VRF manufacturer furnished controller?
Response: Siemens shall provide a DDC controller for each UV per the control diagram and sequences. It's not a factory furnished controller by the VRF manufacturer.
3. Referencing Barr MS-There are typically wiring diagram that shows the required control wiring between the various components that form the VRF system. Can those wiring diagrams be provided?
Response: Provide control wiring per the drawings and VRF system specifications. Exact wiring diagrams are provided in the shop drawing phase once manufacturer is known.
4. Referencing Barr MS -In room/ areas where unit ventilators and HW finned tube are shown, should the HW Finned tube valve control be sequenced with UV HW valve control and use the same room/ area thermostat?
Response: Per keyed note 39 on drawing BM-M111, the thermostat will control both the finned tube and the unit ventilator.

5. On all the drawings there are numerous items i.e. pipe, equipment, etc., listed as existing. Are these materials existing to be removed or to remain? Please advise.
Response: Items labeled as 'existing' are existing to remain unless otherwise noted. All items to be removed or demolished are noted on demolition or removal drawings.
6. On the drawings there are numerous areas of piping, duct, etc that just give sizes. There is no mention if it is to remain or be replaced. Please advise.
Response: On installation drawings all equipment labeled as 'existing' shows it is not new but is to remain since it's in the installation plan. The demo plans denote equipment to be removed with darker line type, hatching and keyed notes. If equipment shown on demo plans is light colored without hatching and without keyed notes, it remains as is.
7. Generally, light colored lines indicate items to remain whereas dark lines mean remove. Please confirm/clarify as we don't want to assume.
Response: Light, thinner lines indicate existing items to remain, and darker, heavier lines indicate items to be removed or new work, unless otherwise noted.
8. The drawings do not show fin tubes in all cabinetry and enclosures. Generally, FRT is used for a draft stop. Is there fin tube to be installed or will it just be straight copper? Please advise.
Response: The main purpose of the draft stop is not to use fin tube, it is to allow cold air along the glazing to drop down through the draft stop grille and get behind the cabinetry then return to the UV inlet to avoid cold air from crossing into the occupied area of the room. We are only providing new fin tube where scheduled.
9. The plans show the plumbing work under the GC bid. Wicks law calls for separate primes, is there an exception to wicks law that allows the plumbing work to fall under the GC contract?
Response: The plumbing scope for this contract is extremely minimal and is estimated to fall under the wicks threshold for that building. Install of one sump pump, scoping and cleaning of minimal amount of plumbing piping. For this reason, it was left with GC associated with the elevator project.
10. Please advise how the \$57,000 allowance should be broken out between the two schools on the GC 1 Contract.
Response: See revised Addendum #2 allowance section
11. Please advise how the \$380,000 allowance should be broken out between the two schools on the MC 1 Contract.
Response: See revised Addendum #2 allowance section
12. Please advise how the \$270,000 allowance should be broken out between the two schools on the BE 1 Contract.
Response: See revised Addendum #2 allowance section
13. The concrete slab as shown on BM-A105 does not show size or details. This drawing says to see the electrical drawings. The electrical drawings do not show this slab (enclosed by chain link fence). Who is responsible for this slab? The GC or the EC? Please advise.
Response: Please read the contract summaries. Per 011204-2.1-A-8. EC shall provide all fencing and concrete pad for the transformer on drawing BM-A105. Each contract summary assigns scope of drawings.
14. In Alternate #1, flooring and painting, and in Alternate #2 ceilings, there is no mention of blinds. Are blinds required in Alternates 1 & 2? Please advise.
Response: Refer to sheet HS-801, window treatments are called out for all windows in classrooms to be renovated and for the Tech Lab in Alternate 1. Provide the same window treatments in Office 22A for Alternate 3

15. Unit Price BE#1- Roof caulk abatement - What quantity of roof caulking? Is the roof caulking inside of an already established abatement containment? Please advise.
Response: Up to 500 LF per school. There is no containment required for exterior non friable roof caulking abatement.
16. Unit Price BE #2-Roof system demo and replace – Does the roof contain asbestos? Do we have to establish containment? Please advise.
Response: The unit price Non-asbestos-containing roofing demo and abatement was incorporated in the event any saturated roofing is discovered
17. Unit Price GE #1-Floor tile VAT and Mastic – What is the quantity? Is it part of already established containment? Or do we have to construct containment? Please advise.
Response: It is within a work area already under containment.
18. Unit Price GE #2-Pipe insulation and elbows – What is the quantity of the pipe? What is the diameter of the pipe? Is the pipe exposed? Is the pipe in the wall/ceiling/or floor? If the pipe concealed behind the wall/ceiling, what type of wall/ceiling? Plaster or sheetrock? How high is the pipe? Is it already in a containment/tent? Please advise.
Response: It is within the work area already under containment.
19. With regard to Unit Price MC-03, is the work to be performed above a drop ceiling can 78 one or two tiles be removed or do the t's and grid also need to be removed and reinstalled? Please advise.
Response: Unit Price MC #3 has been removed from the contract. Please refer to updated MC Bid Form and Unit Price Specification.
20. With regard to Unit Price MC-03, is the work above a sheetrock lid ceiling cut out a small hole or major area out to replace spackle three times Prime match paint.
Response: Unit Price MC #3 has been removed from the contract. Please refer to updated MC Bid Form and Unit Price Specification.
21. With regard to Unit Price MC-03, can a 6 ft ladder reach the work area or is a 20 or 30 ft scissor lift needed to get to the area. Please advise.
Response: Unit Price MC #3 has been removed from the contract. Please refer to updated MC Bid Form and Unit Price Specification.
22. With regard to Unit Price MC-03, can a single drop cloth be used for damage control or several sheets of ¾" plywood acceptable to protect a carpet/ gym floor? Please advise.
Response: Unit Price MC #3 has been removed from the contract. Please refer to updated MC Bid Form and Unit Price Specification.
23. With regard to Unit Price MC-03, is the ductwork straight pieces or are there fittings with turning veins, special dampers, and or components? Please advise.
Response: Unit Price MC #3 has been removed from the contract. Please refer to updated MC Bid Form and Unit Price Specification.
24. With regard to Unit Price MC-03 is the ductwork slip and drive tdf/tdc bolted and gasketed or welded? Please advise.
Response: Unit Price MC #3 has been removed from the contract. Please refer to updated MC Bid Form and Unit Price Specification.
25. With regard to Unit Price MC-03, is the metal used aluminum, galvanized, galvanil, antifungal treated, or stainless steel? Please advise.
Response: Unit Price MC #3 has been removed from the contract. Please refer to updated MC Bid Form and Unit Price Specification.

26. With regard to Unit Price MC-03, what gauge of metal is required 26, 24, 22, 20, 18, or 16? Please advise.
Response: Unit Price MC #3 has been removed from the contract. Please refer to updated MC Bid Form and Unit Price Specification.
27. With regard to Unit Price MC-03 is the ductwork acoustically lined, wrapped with duct rap, or insulated with insulation board? Please advise.
Response: Unit Price MC #3 has been removed from the contract. Please refer to updated MC Bid Form and Unit Price Specification.
28. With regard to Unit Price MC-03 is the ductwork being installed in the interior of the building or the exterior of the building? Are the hangers regular duct straps or kinderf with threaded rod or on the roof duck stands? Please advise.
Response: Unit Price MC #3 has been removed from the contract. Please refer to updated MC Bid Form and Unit Price Specification.
29. With regard to Unit Price MC-03, do the ductwork rails and condenser rails get flashed in on the roof, are they sitting on pads on top of existing roofing? Please advise.
Response: Unit Price MC #3 has been removed from the contract. Please refer to updated MC Bid Form and Unit Price Specification.
30. With regard to Unit Price MC-03 roof protection needed 2-in insulation board over 3/4 in plywood how big of an area
Response: Unit Price MC #3 has been removed from the contract. Please refer to updated MC Bid Form and Unit Price Specification.
31. With regard to Unit Price MC-03, is the roof ductwork insulated with ISO board and EPDM or 2" insulation board with Venture Clad? Please advise.
Response: Unit Price MC #3 has been removed from the contract. Please refer to updated MC Bid Form and Unit Price Specification.
32. With regard to Unit Price MC-03, if it's on the roof and the duct is big might need a crane.
Response: Unit Price MC #3 has been removed from the contract. Please refer to updated MC Bid Form and Unit Price Specification.
33. Pertaining to the questions above, how many feet of duct are we talking about? 1ft, 10ft, or 1000ft, etc. Please advise.
Response: Refer to responses above.
34. Unit Price GE #3 – Transite paneling – Is the transite paneling part of an already established containment? Is it exposed? What is the quantity? How thick are the panels? Please advise.
Response: Response: Unit Price GC-#3 has been removed from the contract. Please refer to the updated GC bid form and Unit Price specification.
35. Is the MC-1 provided steel dunnage installed by GC-1 or by the BE-1 contact?
Response: Per specification section 01 12 05 - 3.1 - Q, all steel dunnage is furnished and installed by MC-01. BE-01 will flash all penetrations.
36. Are the alternate 4 & 5 under GC-1 or Be-1?
Response: Per specification section 01 23 00 - 3.1 - B, alternates 4&5 are by EC-01.
37. Removal and reinstall of the PV panels?
Response: Removal and reinstall of photovoltaics are by EC-01, this includes supports.
38. Specs indicate a chemical tank to be installed on both existing steam boilers. It also shows a chemical tank on drawing HS-M108, is that tank supplying chemicals in the new HWS & R? There are no pipes on the drawing or is there a detail for the equipment? Please advise intent.

Response: The only new chemical treatment item specified is the closed system bypass filter feeder unit called out for the new heating water system loop. The piping detail for this item is shown on detail A16 on drawing HS M602. There are no changes or additions to the existing steam boiler chemical treatment systems.

39. Section 011201 contract summary for BE-01 section 1.5.M speaks to the contractor protecting its own work from damage. It should be the responsibility of all contractors to protect the surrounding/adjacent work areas from damage. The BE-01 contractor should not be held liable for damage caused by other contractors on the roof systems. Please advise.

40. Suggestion: Anyone working on the existing or finished roof system should provide their own roof protection and be held liable for any damage caused.

Response: Each contract summary does call for each prime contractor to protect existing or new installations while continuing work. Should other trades work on newly installed roofing, they will be required to protect the areas surrounding their work per their contract summary. BE-01 would not be held liable for damage by others, nowhere does the contract documents indicate this is a stipulation.

41. Section 011201 contract summary for BE-01 states that BE-01 will be responsible to review existing roof conditions prior to bid and incorporate crickets and or infill for any areas seen to be insufficiently pitched or ponding water exceeding the limits identified in the contract documents. BE-01 shall provide the cost for labor and material in their bid to sufficiently remedy these areas. These existing conditions can only be reviewed 48-72 hours after a post rain event and are based on the guidelines of the roofing manufacturer. Please identify the areas that are considered excessive ponding areas, so we can accurately incorporate them into the bids.

Response: Per specification section 01 12 01-k.1-2. Each prime contractor shall verify existing conditions in the field prior to bid. Each Prime Contract has been given ample opportunity to review Existing Conditions related to the Project. Existing Conditions not noted in the Construction Documents that could be easily recognized during pre-bid review that interfere with the respective Prime Contract's work, shall be the responsibility of the respective Prime Contract. This includes all costs associated with removal, patching, relocation or re-fabrication of installations, etc. Each contractor has the capability to review weather forecast and may request at any time a site visit to review the roof conditions. The bid duration has been several weeks to allow for this. Your bid should factor in a cast to cover this scope.

42. Be advised that adding tapered insulation and "infills" may just move the ponding water into a different location. There is no perfect way to correct these conditions without a complete roof replacement.

Response: We respectfully disagree. Per manufacturers recommendations, crickets or re-pitching to roof drains can be installed without the full replacement of a roof.

43. Section 011201 contract summary for BE-01, states that the BE-01 contractor owns sunshades, window removals, window replacements, and related interior modifications such as painting. Where does this work occur? There are no exterior/interior elevation drawings showing this scope of work.

Response: Negate this from the contract summary. Sunshades, window removals, window replacements, and related interior modifications such as painting is no longer part of BE-01 contract.

44. Section 011201 contract summary for BE-01, states that BE-01 owns misc. masonry and brick. Please specify what masonry scope of work BE-01 owns. There are no elevation drawings showing exterior masonry work.

Response: Negate this from the contract summary. Masonry and brick is no longer part of BE-01 contract.

45. Section 011201 contract summary for BE-01, states that for Substantial Completion: Clean all BE Contractor installations and provided equipment at the time of Substantial Completion or as directed by Construction Manager. To what extent is the contractor “cleaning” the roofing installations? Please elaborate on this scope.

Response: Roof Cleaning meaning the removal of loose roof debris/material, granules, or any material left over not permanently fixed as part of the assembly.

46. Section 011201 contract summary for BE-01, states that the district will be purchasing all the roofing materials.

- a. Is this accurate? The district is going to be purchasing every piece of roofing material needed for the project?

Response: See response below.

- b. Who is responsible for providing the material lists and quantities for the project?

Response: See response below.

- c. What if more materials are required to complete the project, who owns purchasing the additional roofing materials?

Response: Owner has established a contingency budget with Tremco to purchase additional materials required. We do expect some additional material will need to be procured through Tremco. This cost will not fall on BE-01 except for those materials listed below. A preinstall inspection of material will be required by BE-01 to verify material is on site that is needed to perform work. If additional material is required. The district will order at the contractor’s request.

- d. Does this include all the roof related sheet metal flashings required?

Response: Please indicate where there are sheet metal flashings. Per manufacture, liquid flashing is applied beneath existing sheet metal flashing. Any sheet mental flashing for roof curbs is by BE-01.

- e. Does this include the required wood blocking?

Response: No, all PT roof blocking is by BE-01, see below response.

- f. Does the district own the freight as well?

Response: On materials they are purchasing, yes. Materials will be on site prior to construction start for the contractor to use for installation.

Additional Response to questions A-E:

Please read specification section 01 12 01-1.2-D-4, & 01 12 01-E-26 (page 23). Yes, the district will provide materials via Omnia contract. BE-01 shall contract Justen Frye @ Tremco for list of material and technical questions. Please be reminded that there is some material BE-01 will be proven in relation to the installation of roof curbs, pith pockets, and dunnage flashings. This includes but is not limited to wood blocking and mechanical fasteners. BE-01 per contract, shall review MEP drawings and coordination material and install of this scope. See 01 12 01-E-21.

47. Section 011201 contract summary for BE-01 states that the BE-01 contractor owns snow and ice removals for temp roadways, parking, staging areas, sidewalks, etc. Is this for all contractors or only for the BE-01 scope of work?

- a. Snow and ice removals cannot be quantified. Please change or include this scope in the project allowance if required.

Response: See contract logistics plans for BE-01. BE-01 will be required to keep stored material, laydown areas, and any temporary egress clear of snow and ice should the contract choose to start work before colder months or in early spring. See addendum #1 indicating contractor may commence work early. We recommend you hold costs in your bid for this scope. Should any extreme weather event be encountered, costs to replace or clear work, materials, or equipment would fall under builder's risk and other insurances.

- b. If it is snowing or ice is present, no roofing work can occur due to temperature restrictions on the specified materials. Snow/ice removal does not help progress the project roofing schedule.

Response: This appears to be a comment, not a question. No response can be provided.

48. Ref BM-A100, floor plan keynote 11. Which contract owns this scope of work?

Response: GC-01

49. Ref BM A105 and BM A500, which contract owns the chain link fence and gate scope of work? Which contract owns the concrete pads reference?

Response: Per specification section 01 12 04-2.1-8. EC-01 owns this scope.

50. Ref BM M111 notes 12 & 31 typ. who owns the wall openings to the exterior for the wall penetrations? Who owns patching the wall penetration openings both interior & exterior?

Response: MC-01 owns their penetrations, unless in new roofing. New Roofing penetrations, pitch pockets, and flashing shall be by BE-01.

51. Ref HS AD100 demo keynote 5 and HA A100 Floor Plan Keynote 13, who owns this scope of work?

Response: HS-AD100 keynote 5 is by MC-01, HS-A100 keynote 13 is by MC-01

52. Ref HS A524, who owns the metal soffit panel work per details 5 & 6? I was unable to locate a specification for the soffits, please provide one. Are the soffit panels being provided by the district?

Response: BE-01 owns this scope. Specification Section 07 42 13 – COMPOSITE METAL PANELS has been added and included in the addendum.

53. We request the bid due date be extended due to the outstanding RFIs, and that the bid due date is being held immediately following a federal holiday. Getting subcontractor and supplier pricing is always difficult around the July 4th holiday.

Response: Unfortunately, we cannot accommodate this request at this time. The bid duration was lengthened factoring in the federal holiday. Bids are not due until a week after the Federal holiday. This package has been out for bid for 3 weeks already.

54. Contract Justin Frye at Tremco, JFrye@tremcoinc.com, for the price sheet which contains the costs to carry in bid for WTI Roof-Tec for all the modified sections at the HS and MS roofs.

55. Please note that WTI Roof-Tec contractor will not be removing the stone or cleaning the gravel sections for the HS and MS roofs. Please account for that work in your bid.

56. As noted, Nanuet CSD will be procuring the Tremco materials for all the fluid roof components as well as the ply sheets, cap sheets as well as the adhesive for the ply and cap for any wet removal, the canopy roofs and any water diversion required via crickets. Insulation, insulation adhesive, screws, plates, t-bar, metal components (counterflashing) are not being procured via the school and will need to be carried in your bid.

57. The contract documents regarding the base bid scope of work for the existing solar panels are not clear. Which contract owns removing the panel systems off the roof, so the BE-01 contract can install the new roof systems?

Response: Contract EC-01 Electrical owns the removal and reinstallation. Refer the Contract Summary and to specification section 01 23 00 – ALTERNATES, Subsection 3.1, B.

CHANGES TO SPECIFICATIONS:

1. Modify Specification Section **01 12 01 – CONTRACT SUMMARY-BE-01**
 - a. Terms on limitation of subcontracting now included.
2. Modify Specification Section **01 12 02 – CONTRACT SUMMARY-GC-01**
 - a. Terms on limitation of subcontracting now included.
3. Modify Specification Section **01 12 04 – CONTRACT SUMMARY-EC-01**
 - a. Terms on limitation of subcontracting now included.
4. Modify Specification Section **01 12 05 – CONTRACT SUMMARY-MC-01**
 - a. Terms on limitation of subcontracting now included.
5. Modify Specification Section **01 12 00 – ALLOWANCES**
 - a. Section 3.3 Schedule of Allowance broken down by schools.
6. Modify Specification Section **01 22 00 – UNIT PRICES**
 - a. Under Section 3.1, Unit Prices GC #3 and MC #3 were removed.
7. Added Specification Section **07 42 13 – COMPOSITE METAL PANELS**
 - a. Specification Section added that covers exterior canopy metal soffits.

REVISIONS TO DRAWINGS:

None

ENCLOSURES:

- 00 30 00- BE-01 Bid Form**
- 00 30 01- GC-01 Bid Form**
- 00 30 02- EC-01 Bid Form**
- 00 30 03- MC-01 Bid Form**
- 01 12 01 – CONTRACT SUMMARY-BE-01**
- 01 12 02 – CONTRACT SUMMARY-GC-01**
- 01 12 04 – CONTRACT SUMMARY-EC-01**
- 01 12 05 – CONTRACT SUMMARY-MC-01**
- 01 21 00 - ALLOWANCES**
- 01 22 00 – UNIT PRICES**
- 07 42 13 – COMPOSITE METAL PANELS**

SHEETS

GENERAL	CIVIL	STRUCT	ARCH	MECH	ELEC	PLUMB	ABATEMENT

SECTION 01 12 01 – CONTRACT SUMMARY – BE-01

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes a summary of each Prime Contract, including responsibilities for coordination and temporary facilities and controls. One set of Construction Documents is issued covering the Work of multiple Prime Contracts. Each Prime Contract is responsible to review all drawings and specifications for specific requirements indicated, and for a general understanding and knowledge of the work of other Prime Contracts. All Prime Contracts are responsible for all Work of their Contract no matter what drawing on which the Work appears. All Prime Contracts are responsible to coordinate their work related to the complete set of drawings and specifications, not limited to each prime contractor scope. **All Bidders should acknowledge that for each contract listed below, each contractor is their own General Contractor and subject to all General Contractor requirements.**

B.

- 1. **Building Envelope Contract BE # 01:** The Building Envelope Contractor shall be selected based on the bid procedure as described in the Bid Documents.

C.

- 1) Work related to drawings: *(In addition to these drawings, the contractor is required to review all specifications included in the overall contract that may contain related scope or detail for this specific contract.)*
 - a) Nanuet High School – Roofing
 - b) Barr Middle School – Roofing

D.

- 1. Contract Bidders are responsible for trade work coordination and are not limited to the drawings listed below.
 - a. Bid Package Contract No. 01 - Building Envelope: All work related to building envelope construction includes but is not limited the following items: (Refer to the Contract Documents for full scope of work.)

- 1) **This BE-01 contract requires the awarded entity to self-perform the largest scope of work shown in the contract documents. There are no provisions within this contract to solely subcontractor ALL trade scope required to complete the project and its design intent. All other work in this contract is allowed to be subcontracted other than as stated herein. It is further required to clearly present what scope your own forces will be doing with your bid submission. Failure to present this at time of bid will be subject to disqualification.**
- 2) Exterior abatement, temporary protection, barriers, scaffolding, structural steel (flashing); roofing, ladders, curbs, and all schools as described in the contract documents.
- 3) Abatement: All Asbestos and Lead Abatement on Abatement Drawings (ASB Series) associated with the contract scope, and all abatement associated with roofing scope. The work shall be performed by a qualified Abatement Contractor, as per specification 028200 and ASB Series drawings. **There is no separate Abatement Contract.**
- 4) All work related to drawings; (In addition to these drawings, the contractor is required to review all specifications included in the overall contract that may contain related scope or detail for this specific contract.)
- 5) **Materials will be provided by the district via an Omnia Cooperative Contract under Tremco Inc. BE-01 must be a certified installer with Tremco Inc. BE-01 shall submit with their bid, a letter confirming they are currently a certified installer with Tremco inc. The district reserves the right to reject any/all bids to which the contractor is not already a certified installer with Tremco inc. See specification section 011201-E.26 for additional information regarding the material.**

1.3 Related Sections include, but are not limited to, the following:

- A. Division 01 Section "Work Restrictions" for use of the Project site and for requirements for continued Owner occupancy of premises.
- B. Division 01 Section "Project Management and Coordination" for general coordination requirements.

- C. Division 01 Section "Project Forms" for documents required for Testing and Coordination.
- D. Division 01 Section "Temporary Facilities and Controls" for specific requirements for temporary facilities and controls

DEFINITIONS

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- E. Building Site: The Building Site shall be defined in the Construction Documents, as the building footprint, and all related construction within a five-foot (5'0") distance of the building's exterior face, unless noted or assigned otherwise. Coordinate with specific exceptions to the 5'0" limit indicated within each Scope of Work outline.
- F. Permanent Enclosure: As determined by the Architect: permanent or temporary roofing is complete, insulated, and weathertight; and all openings are closed with permanent construction or substantial temporary closures. All cost associated with failure to maintain described installations that result in any damage or contamination to the Owner's property, shall be borne by the Prime Contract responsible for the installation.

1.4 MANAGEMENT AND COORDINATION

- A. The Owner shall provide a Construction Manager.
 - 1. The Construction Manager shall provide a full time construction site representative recognized as the Construction Manager.

1.5 CONSTRUCTION MANAGER

- A. The construction manager shall provide on-site administration of the Contracts for Construction in cooperation with the Architect as set in AIA Document A232™ – 2009, General Conditions of the Contract for Construction, Construction Manager as Adviser Edition, as modified.
- B. The Construction Manager shall provide administrative, management and related services to coordinate scheduled activities and responsibilities of the Multiple Prime Contractors with each other and with those of the Construction Manager, the Owner and the Architect. The Construction Manager shall coordinate the activities of the Multiple Prime Contractors in accordance with the latest approved Project Schedule and the Contract Documents.
- C. Utilizing the construction schedules provided by the Multiple Prime Contractors, the Construction Manager shall update the Project schedule, incorporating the activities of the Owner, Architect, and Multiple Prime Contractors on the Projects, including activity sequences and durations, allocation of labor and materials, processing of Shop Drawings,

Product Data and Samples, and delivery and procurement of products, including those that must be ordered will in advance of construction. The Project schedule shall include the Owner's occupancy requirements showing portions of the Project having occupancy priority.

- D. Utilizing information from the Multiple Prime Contractors, the Construction Manager shall schedule and coordinate the sequence of construction and assignment of space in areas where the Multiple Prime Contractors are performing Work, in accordance with the Contract Documents and the latest approved Project Schedule.

1.6 GENERAL REQUIREMENTS OF PRIME CONTRACTS

- A. Prime Contracts: The context used in this Section are separate Prime Contracts that represent significant elements of work that is to be performed concurrently and in close coordination with the work of other Prime Contracts for the benefits of the Owner. Each Prime Contract is recognized to be a major part of the Work.
- B. Assignment of Work: Should a conflict be indicated, Section 011200 shall take precedence over all scope of work assignments that may be indicated elsewhere within the Construction Documents.
- C. Seismic Requirements: Prime Contracts are to be aware that the building(s) is located within a Seismic Zone indicated in the documents and shall provide installations in compliance with all related code requirements.
- D. Layout and Installation: Each Prime Contractor shall schedule, layout and install their Work in such manner as not to delay or interfere with, but to compliment the execution of the work of other Prime Contracts, utility companies and Owner's operations.
- E. Extent of Contract: The Contract Documents, drawings and specifications each contain more specific descriptions of the Work facilitating which Prime Contract includes specific elements of the Project.
 - 1. Work provided by each Prime Contract shall mean complete and operable systems and assemblies, including products, components, accessories and installations required by the Construction Documents or indicated otherwise.
 - 2. Prime Contractors shall exercise good judgment and perform all work according to related industry standards.
 - 3. The Owner is exempt from payment of Federal, State and local taxes, including sales and compensating use taxes on all materials and supplies incorporated in completing the Work; these taxes are not to be included in the Bid. This exemption does not apply to tools, machinery, equipment or other property leased by, or to, the Contractor or sub-contractor, or to supplies and materials, which even though consumed are not incorporated into the completed work. Prime Contractors, and

- their sub-contractors, shall be responsible for paying any and all applicable taxes on said tools, machinery, equipment or property, and upon all said unincorporated supplies and materials, whether purchased or leased.
4. Prime Contracts shall understand that time is of the essence, and will adequately staff the Project by employing the appropriate trade's people to perform the Work; these people shall be experienced in their respective trades. A shortage of labor in the industry shall not be accepted as an excuse for not properly staffing the Project; all efforts shall be made to meet or exceed the schedule, including additional staff and/or labor hours necessary. All cost associated with this item shall be included within the Bid.
 5. Local custom and trade union jurisdictional settlements will not control the scope of the Work of each Prime Contract.
 - a. When a potential jurisdictional dispute or similar interruption of Work is first identified, or threatened, the affected Prime Contracts shall promptly negotiate a reasonable settlement to avoid or minimize the pending interruption and delays.
 - b. Contractor's trade-related issues shall not be grounds for modification or extension of scheduled completion date(s).
 6. The Work of all Prime Contracts requires close coordination with other Prime Contracts and construction personnel. Maintain flexibility and cooperation through the Project. "Out of Sequence" and "Delay" claims will only be considered when requirements of Division 01 "Administrative Requirements" have been adhered to. Delay claims must be in writing and forwarded to the Architect, per the requirements of the General Conditions of the Contract. Claims not submitted per these requirements will be rejected and/or denied.
 7. The intention of the Work is to follow a logical sequence, however, a Prime Contractor may be required by the Architect or Construction Manager, to temporarily install, omit or leave out a section(s) of Work, out of sequence. All such out of sequence work, and come back time, at these areas shall be performed at no additional cost to the Owner.
- F. Substitutions: Per Division 01 Section "Substitution Procedures", each Prime Contractor shall cooperate with the other Prime Contractors involved, to coordinate approved substitutions with remainder of the Work. Contractors shall submit all "Substitutions" at least ten (10) days prior to the date for receipt of Bids as specified in the Instructions to Bidders 002113 Section 3.3 Equivalents or bid will be considered per "basis of design".
- G. Construction Schedules: Refer to Divisions 01 Section "Construction Progress Documentation", "Preliminary Schedule" and "Project Management and Coordination" for requirements related to meetings and schedules.
- H. Construction Sequencing and Phasing: Prime Contractor shall understand that Sequencing and/or Phasing Plans are contingent upon the work areas being

complete/occupied, prior to the next area of Work beginning. Should an area of construction not be complete per the Project Preliminary Schedule, the Project Master Construction Schedule/Sequencing Plans will be adjusted accordingly. The Owner will not be responsible for delay claims due to adjustments being no fault of their own.

1. Prime Contracts may be required to re-sequence the phasing of the project as a result of changes to the schedule. Prime Contracts shall provide these adjustments at no additional cost to the Owner.
- I. Testing and Inspections by Owner: The Owner shall employ an independent qualified testing and inspection agency for monitoring on-site soils analysis (excluding top soil analysis), soils compaction, cast-in-place concrete, asbestos and lead abatement monitoring and Special Inspections indicated in the Construction Documents (refer to Division 01 "Quality Requirements" and/or Statement of Special Inspections" for additional specific information)
1. Prime Contractor shall give one week notice as to commencement for these requirements. Once underway, Prime Contractor shall coordinate with the Construction Manager and give 48 hours' notice as to test(s) required, by Owner's Agency, and further verify the need 24 hours in advance. Full cooperation and coordination is expected of all Contractors and their personnel with the Owner's Testing Agency in fulfilling test requirements; provide all data and materials requested for required reports.
 2. Other than with regard to compliance with state and federal laws, the testing agency holds no execution authority other than to provide test results. Should testing indicate a discrepancy or non-compliance during execution of the Work, the Testing and Inspection Agent shall promptly notify the Construction Manager and Project Superintendent of such; however, the Prime Contract shall bear full responsibility for making any decision with regard to proceeding with, or stopping, the Work.
 3. This assignment of Testing and Inspection responsibilities shall take precedence over any respective responsibilities that are indicated otherwise in the Construction Documents.
- J. Testing by Others: All testing requirements not listed in preceding "Testing & Inspections by Owner" or otherwise identified in Division 01 "Quality Requirements" and/or "Statement of Special Inspections" shall be the responsibility of the Prime Contract providing the respective Work as indicated in the Construction Documents.
1. The respective Prime Contract shall have performed testing requirements indicated in individual Specification Sections which may inadvertently indicate "Owner to provide," which are not identified in preceding paragraph "Testing & Inspections by Owner".

2. Prime Contractor shall submit their Testing Agency qualifications to the Architect for approval prior to any test being performed. Construction Manager shall be given 48 hours' notice of any test/inspections to be performed by Prime Contractor's Testing Agency. 24- hour notification shall be given to the Construction Manager for test/inspections requiring his/her presence; 72-hour notification shall be given to the Architect for test/inspections requiring his/her presence.
 3. Determinations required of the Architect shall be anticipated by the Prime Contractor to allow ample time for inspection, investigation and reporting.
- K. Existing Conditions: Each Prime Contract shall verify existing conditions in the field prior to work commencing in that area and immediately report conditions to the Architect that are not represented correctly by the Construction Documents.
1. Each Prime Contract is responsible for familiarizing himself with Project Site Logistics and provide a "site logistics plan locating storage area, scaffolds, rubbish areas, stock piles and egress related to all work, included phased construction within 30 days of award.
 2. Each Prime Contract has been given ample opportunity to review Existing Conditions related to the Project. Existing Conditions not noted in the Construction Documents that could be easily recognized during pre-bid review that interfere with the respective Prime Contract's work, shall be the responsibility of the respective Prime Contract. This includes all costs associated with removal, patching, relocation or re-fabrication of installations.
- L. Hazardous Materials: Each Prime Contract shall familiarize themselves with the Hazardous Materials Sections/Drawings of the Construction Documents and follow DOL/OSHA/EPA/SED regulations while performing their respective Work in these areas. Discovery of non-identified or concealed hazardous materials shall be reported to the Construction Manager immediately and followed up with written documentation of the event.
- M. Protection of Installations: Each Prime Contract is responsible for protecting their installations at all times. All costs incurred to repair, replace or clean insufficiently protected materials/installations shall be the responsibility of the installing Prime Contract.
1. Architect shall be notified, in writing, immediately upon material/installation being damaged; notification shall indicate responsible party.
 2. Owner will not be liable for damaged materials and/or installations by "others", when "others" cannot be identified.
 3. Repair damaged work, clean exposed surfaces or replace construction installations that cannot be repaired.
 4. Each Prime Contract shall be responsible for removing all labels not required to remain from their installations.

5. Installations shall be wiped clean and proper protection then installed.
 6. Each Prime Contract is responsible to protect another primes work in the event that prime has to work over or on top of that other primes work being complete. The prime working over the completed work takes full responsibility of that other primes completed work both in condition and operation.
- N. Daily Cleaning: All Prime Contracts are responsible for any and all debris caused by their Work, including the Work of their subcontractors. A daily clean up and disposal is required by each Prime Contract for the periods which that Prime Contract, or its subcontractors, are performing Work on site.
1. Assign at least one person for a daily clean and sweep of the work area(s). Prime Contractor shall allot sufficient manpower and time for this to be completed by the end of each shift. Submit name of this person(s) to Construction Manager.
 - a. Construction Manager shall have the authority to give direction to person(s) on the Project Site identified by the Prime Contract as designated for cleanup tasks. This shall include the safety review/securing of the site-work zone after each shift.
 - b. This person has check that no construction debris was dumped in any district dumpers during this end of shift site review, if found the contractor must remove immediately the next morning to avoid back charges costs of \$1500 per day not removed.
 2. Any Prime Contract not providing personnel for Daily Cleaning will be Back Charged for labor provided by the Owner to complete this task.
 3. Contractor working solely in an area shall be responsible for clean/sweep of that area.
 4. Daily cleaning will not mean any one Prime Contract is responsible for assisting another Prime Contract with removing major quantities of debris created by a particular Prime Contract's Work.
 5. Daily cleaning will be mandated to remove from the building any debris created by day-to-day activities. All Prime shall assist in sweeping shared work areas and shared corridors while working on site. Each Prime shall assist in mopping of shared corridors while working on site or as required by the Owner.
 6. All prime contractors and subcontractors are required to provide sweeping compound for daily cleaning in their respective exterior and interior work areas. Each Prime Contract shall provide a sufficient number of brooms or other necessary tools, for use by their personnel to adequately fulfill their obligations.
 7. All prime contractors shall provide and maintain garbage cans/refuse containers with liners for each construction area of their respective contracts as directed by the Construction Manager and shall be responsible for disposing of these materials to a dumpster.
 8. All prime contractors provide the necessary equipment/containers (lull/skip-box) to move daily clean/sweep debris from the building to a dumpster on a daily basis, for

- each construction area of their respective contracts. Skip-box shall be emptied to a dumpster by 9:00 a.m. the following day.
9. Cleaning shall be deemed a Safety & Health issue, with Prime Contracts being held accountable for fulfilling their contractual obligations.
- O. Final Cleaning: At Substantial Completion of each area of construction, each Prime Contract shall wipe/vacuum clean all of their respective installations; All interior contracts performing work inside the buildings shall mop clean all building surrounding areas and finish flooring and remove all marks/blemishes to the finish, for each construction area of their respective contracts. Each area of construction shall be wiped clean of all construction dust and debris prior to turnover to the Owner.
- P. Cutting and Patching: All Primes are responsible for cutting and patching required to complete their Work. All repair of existing finish Work (including finish floors) shall be performed by contract requiring work, meeting or exceeding minimum contract requirements for that particular section, specification, or type of work. All concealed openings (piping, ductwork, conduit, etc.) must be repaired to comply with specified wall or deck conditions as well as required fire and sound ratings. All corridor penetrations require fire safing. If contractor elects to install their new work in an existing unrated wall or floor opening, whereas the wall/floor is a fire rated condition, that contractor is responsible to fire rate that opening to match the wall/floor fire rating with new and all other existing wire, piping, ducts etc. Other areas are noted in drawings and specifications.
- 1.7 Project Schedule. The nature of this project is to complete all the work listed as Phase 3 in the schedule by **the Project Closeout Dates specific to each Prime Contract as listed below**. Each Prime Contractor shall include in their bid proper allowances for foul weather.
- A. Bids Received: 7/11/2023
- B. Anticipated Notice to Proceed: 8/1/2023
- C. Submittals: The following items are to be submitted within 60 business days after Notice to Proceed unless otherwise noted:
1. Submittal List and Submission Schedule – **15 days after NTP**
 2. Field Investigations
 3. Shop Drawings
 4. Long Lead Items – **30 days after NTP**
 5. Schedule of Values and Key Submittal List – **15 days after NTP**
- D. Mobilization: 6/28/2024

E. Substantial Completion and Project Closeout: 9/10/2024

1. **Building Envelope**

a. Roofing

- 1) Substantial Completion: September 10, 2024.
- 2) Project Closeout: October 31, 2024.

1.8 TEMPORARY FACILITIES AND CONTROLS OF PRIME CONTRACTS

- A. Conditions of Use: Keep temporary services or conditions clean and neat in appearance. Operate in a safe and efficient manner. Relocate temporary facilities as required as work progresses; do not overload facilities or permit them to interfere with progress. Take necessary fire prevention measures; do not allow hazardous, dangerous, or unsanitary conditions to develop or persist on the Project site.
1. Installation, operation, maintenance, and removal of each temporary service or condition are considered part of the respective Prime Contract's own construction activity, as are costs and use charges associated with each facility.
 2. Locate service or condition where they will serve the Project adequately and with minimum interference of the Work, coordinate with the Construction Manager and the other Prime Contracts prior to installation.
- B. Temporary Use of Permanent Facilities: Prime Contract, as installer of each permanent service or condition, shall assume responsibility for its operation, maintenance and protection during use as a construction facility prior to the Owner's acceptance, regardless of previously assigned temporary facilities and controls responsibility.
- C. Owner's Facilities: Contractors are not allowed to use the Owner's facilities (toilets, telephones, food service, etc.) for their own benefit or convenience. Prime Contract Superintendents shall enforce this policy with their respective work forces.
1. Construction personnel parking will be restricted to area as directed and agreed to by the Owner, and to facilitate the completion of the work. Owner reserves the right to remove from their property, unauthorized vehicles occupying unauthorized areas, at respective vehicle owner's expense.
- D. Storage on the Project Site: Each Prime Contract shall provide sufficient secure weather-tight storage facilities for their materials and equipment. These storage containers are required to be located on the "site logistics plan." The Owner's facilities and the Project's building areas shall not be used for storage unless agreed upon, in writing, with the Owner via the Construction Manager.

1. Until permanently incorporated into the Work, all materials on the Project site are considered to be the Prime Contract's responsibility for security and protection.
 2. Prime contractor is required to check on their onsite stored material periodically to ensure that all material continues to be located in the stored location and that it remains protected from all damage, theft, and endangerment to others and ready to be used on notice for coordination with other contractors. Failure to arrange for materials to be on site to complete coordinated work with other Prime Contractors will result in back charges for delays resulting therefrom.
 3. Temporary long-term storage facilities are not available to Prime Contracts by the Owner.
 4. Prime Contractors and their subcontractors, shall coordinate deliveries with the Construction Manager to ensure that disruptions and Owner inconvenience are avoided.
- E. Tools and Equipment: Each Prime Contractor shall provide all tools and equipment necessary for its own activities; this includes secure lock-up and storage for all items on the Project Site.
1. Provide all construction aids and miscellaneous services and facilities necessary exclusively for its own construction activities; this shall include any additional supplementary power, ventilation, lighting requirements and weather protection.
- F. Project Site Communication: Each Prime Contractor shall provide their Project a full time on site at all times Superintendent with a mobile phone for the duration of the Project, as indicated in their Scope of Work. Construction Manager shall be furnished with contact numbers associated with each phone.
- G. Safety: Prime Contracts, not the Architect or Construction Manager, are responsible for Project Site Safety, as related to their operations (refer to Section 013150 "Special Procedures" for further requirements).
1. Each Prime Contract shall correct safety hazards and violations immediately. If safety issues are not immediately rectified, the Owner shall secure outside sources to correct the deficiency and back charge the responsible Prime Contract.
 2. Maintain unobstructed access/egress to fire extinguishers, fire hydrants, stairways, corridors, ladders and other safety routes/devices.
- H. Fire Extinguishers: All Prime Contracts provide and maintain "general use" fire extinguishers for each construction area of their respective contracts; comply with applicable codes for quantities required. Use of the Owner's fire extinguishers to meet this requirement is not permitted. Comply with NFPA for recommended classes for exposure; extinguishers shall be inspected and appropriately tagged prior to being brought on site. Provide stands, painted bright orange, sturdy enough to carry the extinguisher, and built as not to create a tipping hazard.

1. Each Prime Contract shall supplement this requirement by providing additional fire extinguishers specifically related to their work activity (e.g., welding, soldering, abrasive cutting, etc.).
 2. Each Prime Contract shall provide and maintain proper fire extinguishers at/in their respective on site office and storage facilities.
 3. Store combustible materials in approved containers in fire-safe locations.
- I. Welding: Any Prime Contract performing welding, cutting or other activities with open flames or producing sparks shall at a minimum:
1. Coordinate interruption/shutdown of detection system(s) to avoid creating false alarms.
 2. Protect the area and surrounding areas from fire and damage.
 3. Maintain fire extinguishers, compatible with activity, at the location of the activity.
 4. Provide a continuous Fire Watch during the activity and one-half hour beyond the completion of the activity.
 5. Provide all necessary fans and ventilation required for the activity.
 6. Any welding, burning and or use of flame the contractor is required to provide all required "hot work permit" to use such equipment prior to start of work. Its mandatory that no "hot work" shall start without these permits issued to the CM and Owner. Failure to this requirement will result to the removal of the project super of that company from all district projects.
- J. Temporary YODOCK Barriers: Provide new materials whenever possible; undamaged, previously used materials, in serviceable condition, may be used if approved by the Construction Manager. Refer to the respective Specification Section when selecting materials and provide similar materials suitable for intended use.
- K. Relocation of YODOCK Temporary Barrier: In the event a Prime Contractor requires relocation of a temporary barrier, Prime Contractor requiring relocation shall do so and shall protect all personnel in the work area during the relocation.
1. Initial installing Prime Contractor shall coordinate the location of barriers with other Prime Contracts, prior to placement of the barrier.
 2. If a barrier must be located such that it will interfere with another's work, the Contractor requiring the work now interfered with shall relocate the barrier as required to install his work.
 3. Coordinate with Construction Manager.
- L. Termination and Removal of YODOCK Barriers: Remove each temporary facility when it can be replaced by the authorized permanent facility no later than Substantial Completion, or as directed by the Architect and/or Construction Manager. Complete or restore permanent facilities that may have been delayed due to interim use of a temporary barrier or condition.

- M. Temporary Power: Each Prime Contractor shall provide for their own temporary power needs for any scheduled electrical utility shut downs. Each Prime Contractor shall provide for their own temporary generators, power cords and temporary lighting as needed during these periods to continue to perform their work and maintain adherence to the Preliminary Schedule and approved Project Master Schedules. All temporary power equipment shall comply with all applicable codes and regulations.
1. In all other schools in this phase 2, known as NHS & BMS have local electrical panel replacements, therefore each prime contractor and their sub-contractors are required to provide their own generator power for equipment and lighting to perform their work during these times with no additional cost to the owner.
- N. Waste Disposal Facilities:
1. General debris/refuse/construction waste containers (dumpsters) shall be provided by each prime contractor and secured as specified herein this contract.
 2. It shall be the responsibility/requirement of each Prime Contract to bring their waste to the dumpsters, including but not limited to all equipment, demolition debris, discarded materials with further identification including the following; construction and demolition debris refers to discarded materials generally considered non-hazardous in nature, including but not limited to steel, glass, brick, concrete, asphalt material, pipe, gypsum wallboard, and lumber, from the construction or destruction of a structure as part of a construction or demolition project or from the renovation of a structure, including such debris from construction of structures at a site remote from the construction or demolition project site.
 3. It shall be the responsibility and requirement of each Prime Contract to recycle metals generated by its Work, and the Work of its subcontracts.
 4. Joint-effort recycling by all Prime Contracts is encouraged.
- O. Temporary Sanitary Facilities: Provide temporary self-contained toilets units for duration of the project.
1. Temporary Sanitary Facilities:
 - a. Each prime contractor is required to provide their own Temporary Sanitary Facilities and secured behind fencing and/or locked after work hours and weekends.
 2. Comply with regulations and health codes for type, number, location, operation, and maintenance of fixtures and facilities.
 3. Provide separate facilities (minimum of one ea.) for male and female personnel in proportion required by OSHA.
 4. Shield toilets to ensure privacy.
 5. Coordinate mobilization and demobilization of units with Construction Manager.

6. Toilets shall be cleaned at least once per week, with additional facilities or cleanings provided if requested by Construction Manager.
7. Provide and maintain adequate supply of toilet tissue and hand sanitizer for each facility.

1.9 WORK HOURS & SEQUENCE

- A. Summer work starts June 27th through August 23rd for 2024. The Summer working hours are from 7:00am to 9:30pm. There is no additional cost to the owner for working the hours of 3:30pm through 9:30pm or on Saturdays and holidays during the Summer.
- B. **NOTE: Roofing touch-ups may commence during the school year. Working hours are to be 7:00AM – 4:00PM. There will be black-out periods for testing where work cannot commence. The contractor is expected to request these dates from the CM and integrate into their milestone schedule.**
- C. **Building Envelope Contractor (BE) may not perform any abatement, saw cutting, or otherwise high noise level disruptive work during school hours. This work must be performed second shift and shall be incorporated in to the contractor's bid. Non-disruptive work such as re-roofing, re-flashing, etc. may be performed during the school day. BE contractor is required to submit a schedule and work plan to the CM for approval of work to be performed during the school day. All work to be performed during the school day is at the CM's sole discretion.**
- D. Contractors can start working on site to investigate for work within 30 days of execution of contract, to the extent permitted by contract. If Contractors are required to coordinate and perform work simultaneously with other Contractors, such work shall be performed during the Normal Working Hours. Contractors are required to work these hours as part of the base bid in order to complete their contract work by the designated Substantial Completion and Final Completion end dates as indicated on the Invitation to Bid. Saturday and Sunday work hours are available from 8am to 9pm upon request for make-up time only (see section D below).
- E. Mandatory site clean up period - From August 24th, 2024 to August 31st, 2024.
- F. Contractors are required per contract to fully staff each project site during the work shifts stated above with the required manpower to complete their work within the allowed scheduled time frame. Contractors are required to provide a 72-hour advanced request to the Owner via the Construction Manager for any Saturday work. Exterior weekend work is subject to city noise ordinance. If a project schedule delay has been caused by the fault of the contractor, the contractor is required to provide Sunday shift to make up the project schedule. All costs for CM, Architect and district personal related to this shift request will be charged to the contractor at a combined rate for all at \$3,000 per 8hr shift.

- G. Contract summaries will provide start and end date for each contractor.
- H. Additional requirements:
 - 1. Multiple Crews: Each Prime Contract shall provide multiple crews, supervision, cranes, scaffold and other means necessary to perform the Work, and maintain the Project Master Schedules.
 - 2. Interruption of any utility and/or power must be coordinated with the Owner, via the Construction Manager.
 - 3. Any and all -overtime, weekend and/or holiday work required to meet the Project Master Schedules shall be incorporated in the respective Prime Contract's bid.
 - 4. Should a Contractor's progress fall behind, as to schedule, Prime Contractor shall employ additional –or overtime and/or weekend workforce until situation is rectified, to the satisfaction of the Architect and Construction Manager, at no additional cost to the Owner, however subject to charges as stated in section 1.8 C for lack of maintaining schedule
 - 5. Should a Prime Contract feel another Prime Contract is delaying them sufficient time to complete their installations, per the schedule, the Architect and Construction Manager shall be notified in writing immediately of the situation (refer to Conditions of the Contract for protocol). A Prime Contract creating such a delay, that causes a proven burden upon another Prime Contract to maintain schedule, shall bear all costs incurred by the delayed Prime Contract to maintain the schedule.
 - 6. The Architect and Construction Manager shall not be overburdened as to overtime cost, to monitor the work, due to no cause of his or her own. Owner will compensate the Architect and Construction Manager for all additional cost related to the issue of a Prime Contractor's failing to execute the Contract by fully staffing per the work hours and days noted herein. The Owner reserves the right to back charge the responsible Prime Contract for these fees if incurred.
 - 7. All Asbestos and/or Lead Abatement shall take place to meet the requirements of the Preliminary Schedule and Project Master Schedules and shall be coordinated with the other Prime Contractors prior to commencement.
- I. The Work shall be conducted to provide the least possible interference to the activities of the Owner's personnel and the surrounding property owners (neighbors).
 - 1. Prime Contracts are hereby notified that: All Prime Contractors and their subcontractors shall limit excessive noise during 2nd shift known as work extending to 10PM weekdays upon approval by owner and city work hour restrictions. These operations shall not create a disturbance to neighboring properties.
- J. Construction access to the site shall be limited to personnel, equipment and deliveries by suppliers relative to the Work of Prime Contractors and their subcontractors. Prime

Contracts shall keep the Construction Manager advised of persons accessing the site and shall seek assistance with coordinating parking and storage facility locations for all Prime Contracts.

1. Where applicable, Contractors shall provide Building Site perimeter barricades as described herein the project and all temporary exit doors/lockable gates on the Project, securing these doors, fencing and/or gates at the end of each work shift.
2. When a Prime Contract engages in overtime, weekend or 2nd shift work, during the summer months and or during the normal school year, the respective Prime Contract shall notify Construction Manager of such and be responsible for securing the Project Site at the end of that work shift and perform site walk around the outside of construction area/work zone ensuring all debris is pickup up and there are no construction related hazards of any kind present once the responsible person leaves the site for the evening or weekend. This includes that all materials and equipment are fenced in and keys are removed. All interior projects have the same requirement to ensure that outside the work zone is clean from dust-dirt and that no materials are left outside the work area at any time.
3. ALL DUMPSTERS MUST BE FENCED IN. NO EXCEPTIONS.

1.11 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.12 DRAWINGS AND SPECIFICATIONS

- A. Construction Documents indicate the sum total of the Contract that make up the complete work for the Project. Through this Section "Summary of Work", the intent of the Contractor's scope of Work and responsibility is generally described. Related requirements and conditions that are indicated in the Contract Documents include but are not limited to the following:
 1. General Conditions and Requirements.
 2. Referenced and applicable Codes, Regulations and Standards.
 3. Scheduling and phasing requirements.
 4. Existing conditions and restrictions on use of the site and facilities.
- B. Drawings and Specifications are cooperative and supplementary. Portions of the Work, which can best be illustrated by Drawings, are not included in the Specifications and portions best described by Specifications are not depicted on Drawings.

1. All items necessary to complete the work shall be furnished whether written or illustrated.
2. All primes shall exercise good judgment and perform all work according to related industry standards.

PART 2 - SCOPE OF WORK

2.1 MULTIPLE PRIME CONTRACTS

- A. Scope of Work: Work includes but is not limited to, the following:

- 2.2 All "G, ASB, S, & A" drawings related to Nanuet High School and Barr Middle School building envelope are the responsibility of this contract. This includes exterior clay masonry, lintels, and sunshades. The HS security addition is not part of the BE contract

- 2.3 Related Sections include, but are not limited to, the following:

- A. Division 01 Section "Work Restrictions" for use of the Project site and for requirements for continued Owner occupancy of premises.
- B. Division 01 Section "Project Management and Coordination" for general coordination requirements.
- C. Division 01 Section "Project Forms" for documents required for Testing and Coordination.
- D. Division 01 Section "Temporary Facilities and Controls" for specific requirements for temporary facilities and controls
- E. Applicable Specification Sections: All specification Sections itemized below are to be provided completely by this Prime Contract unless noted otherwise. In addition to these specifications, the contractor is required to review all specifications included in the overall contract that may contain related scope or detail for this specific contract.
 1. **Divisions 00 and 01 – Procurement and Contracting Requirements & General Requirements.**
 2. **Division 02- Existing Conditions**
 3. **Division 04 Masonry**
 4. **Division 05 Metals**
 5. **Division 06 Wood and Plastics**
 6. **Division 07 – Thermal and Moisture Protection**

- F. Applicable Drawings : All drawings itemized below are to be provided complete by this Prime Contract, unless noted otherwise. In addition to these drawings, the contractor is required to review all drawings included in the overall contract that may contain related scope or detail for this specific contract.
1. **All "G" drawings**
 2. **HS-ASB-5, HS-A121, HS-A521, HS-A522, HS-A523**
 3. **BM-A121, BM-A521, BM-A523**

PART 3 - EXECUTION

3.1 WORK SEQUENCE

- A. The Work shall be conducted to provide the least possible interference to the activities of the Owner's personnel, per the Project Preliminary Schedule.
- B. Work required during overtime, extended shifts or holidays due to failure of contractor to maintain schedule, will be monitored by Architect/Construction Site representative, and may be monitored by Owners' personnel. Additional costs for Architect/Construction Site Representative and/or Owner personnel will be borne by the Contractor.
- C. Coordination of any utility and power interruption must be done with approval of the Architect/Construction Site Representative. Shutdowns must occur during non-occupied timeframes only.
- D. Construction access to the site shall be limited to those designated for personnel, equipment and deliveries by the Owner. All contractor staging, parking and storage shall be coordinated with the Construction Site Representative and subject to change.
- E. Payments: Each bid that covers more than one school (i.e. one SED project) shall provide completed AIA G732 & G703 by building (for each SED project).
- F. No work shall be installed without approved shop drawings. Any work in place without approved shop drawings will be rejected and removed by that contractor at their expense and backed charge all other costs related to.
- G. Any work deemed by CM, Architect and District not properly installed by a contractor per the contract drawings and specifications shall be removed immediately and corrected, with all associated costs to be borne solely by that contractor.
- H. All prime contractors are to review other prime contractors' scope shown in the contract drawings and specifications and completely understand their responsibility to

coordinate their contract work with other primes in efforts to meet the project schedule and for a complete operational system or area or work.

- I. All contractors are to provide within 3 weeks of award a "base line" construction schedule for their work from commencement to completion including all phasing. This schedule is to be updated monthly to show percentage progress of each item listed. This schedule shall be revised to provide a recovery schedule in the event of a delay for any reason. The recovery schedule shall include the "base line" item and the recovery to show how the delay is affecting the overall project schedule. This schedule is to be provided in MS Project or Primavera. Excel schedules are not accepted.
 - J. Prime contractor "base line" schedules are to be reviewed by each prime contractor and coordinated where work is related and that each prime's work shall be included in each "base line" contractor's schedule as necessary for coordination.
 - K. All contractors are to provide 2-week look ahead schedules showing work related to the base line and shall be coordinated with other prime 2-week look ahead schedules. These schedules will be Excel format. Format will be provided by the CM.
 - L. Contractors to provide a full-time supervisor on site 100% of the time. This is not a working foreman. Supervisors are not working with tools they are supervising their workers and coordinating with other contractors and district/ CM. Failure to provide will be default of your contract and subject costs related to and termination.
 - M. All prime contractors are the provide a project manpower structure showing names and telephone numbers of each responsible person on the project. This shall be updated as needed if personal changes are made.
 - N. All site equipment and dumpsters are to be behind temporary chain link fence when stored on site and or within the construction work zone where temporary chain link fence has been providing and installed by the prime. Each prime contractor is responsible to provide and install temporary chain link fence around their own stored equipment and dumpsters on site.
 - O. No equipment, panels or any services shall be turned off for any reason without written request and approval by the district. Project form shall be used for all shutdowns and required a 3-day notice. Other shutdowns may require more time.
- A. **CONTRACT No. 01 BUILDING ENVELOPE (BE)** – GENERAL CONSTRUCTION PRIME CONTRACT FOR RE-ROOFING/ROOF REPLACEMENT AT NANUET HIGH SCHOOL AND BARR MIDDLE SCHOOL, REPAIR WORK, WATERPROOFING, LIMITED MASONRY AND BRICK, AND ABATEMENT. Project Site Superintendent: BE Contractor shall provide one (1) full time, non-working Project Site Superintendent while any work related to this Contract is being performed. Superintendent shall be responsible for the daily activities of this Contract, and work closely with the Construction Manager and the other Prime

Contract Superintendents/Foremen, in a manner that best promotes the objectives of the Project.

1. Superintendent shall be on-site while Contractor's own forces, and/or subcontractors are performing work on the Project Site; also, while other Prime Contracts are installing work, or require the coordination of work related to this Prime Contract, and/or as requested by the Construction Manager.
 2. Superintendent shall be the same individual throughout the duration of the Project.
 3. Project Site Superintendent shall be an individual with minimum of five (5) years' experience in this field of work.
 4. Refer to Section 013100 "Project Management and Coordination" for further requirements.
- B. Project Foreman: BE Contractor shall provide at least one **(1) full time Project Foreman during each shift of work per school**; Foreman shall be able to make binding decisions, as they relate to the daily activities of their crew, as related to achieving the goals of the Project.
- C. Site Communications: BE Contractor shall provide Project Superintendent with a mobile phone, all costs and service charges shall be paid for by BE Contractor; provide Construction Manager with contact number(s).
- D. Project Site Field Office: Provide site office facilities for this Contract's Project Superintendent. Site Office shall be equipped with telephone with answering machine, fax and e-mail. Contact information shall be provided to the Construction Manager.
1. The Owner reserves the right to seek reimbursement for temporary facilities not provided by this Prime Contract.
- E. Scope of Work: Work of the BE Contractor includes, but is not limited to, the following:
1. Coordination with other Prime Contracts, Owner and Construction Manager as required to adhere to and maintain approved Project Master Schedules. Prior to first payment, this includes developing and submitting the Project Master Schedule for this contract scope of work.
 2. All demolition, including window removal, and new roofing scope indicated in Contract Documents, including removal and legal disposal off site of all existing ballast. Includes all new roofing insulation, tapered and otherwise, ladders, roof hatches, wood blocking, roof metal and accessories, miscellaneous masonry work and miscellaneous steel as indicated in Contract Documents. Includes new roof drain strainers, clamps and hardware at existing roof drains to remain. Includes new pipe supports for roof-mounted conduit and piping scheduled for removal and replacement by others.
 3. All necessary roofing scope to accommodate the work of others, including cutting roof deck following mark out by others, installation of blocking as needed, and installation of roof drains, curbs, rails and pipe portals supplied by others and

- flashing of all new roof drains and roof drain retrofits, curbs, rails and pipe portals supplied by others.
4. All interior scope related to window installation shall include patching and painting of existing walls, wood blocking for window shades, all replacement and repair of window sills.
 5. All structural deck repair and roof steel supports are included in the base contract as indicated in Contract Documents.
 6. If required and approved by Allowance Authorization, repair of the additional existing roof deck to Architect's specifications.
 7. The BE Contractor shall provide and install adequate protection to adjacent areas of construction work and over any removed portions of work where the building is required to be protected from weather.
 8. BE Contractor shall conform to phasing and sequencing of Windows, Façade, and Roof Replacement Repairs.. Any deviation shall be clearly indicated and defined in the bid proposal. See the Preliminary Schedule. coordinated with the Owner. See Preliminary Schedule.
 9. Work delineation between building and site is indicated on the Contract Drawings.
 10. Provide all Asbestos and Lead Abatement as indicated in the Construction Documents; provide all weather tight temporary enclosures as required to maintain security, and to protect existing conditions, at all times.
 - a. Post Building(s) as required by regulatory agencies.
 - b. Coordinate with Life Safety Plans, Elevation Plans, and Hazardous Materials documents for areas of the existing building(s) that contain Asbestos, Lead, and other components, and coordinate removals accordingly.
 - c. Building piping shall have asbestos insulation abated as shown on the contract documents prior to demolition operations. Coordinate with plumbing contractor (PC).
 - d. Provide all roofing abatement (Lead and Asbestos); coordinate with roofing subcontractor and other Prime Contracts.
 11. For work performed between June 2024 and September, 2024, BE Contractor shall do the following:
 - a. At the start of each work day, BE Contractor shall completely cover all furniture in classrooms and spaces immediately below or adjacent to areas for work for that day with plastic sheeting. Approximately two (2) hours before the end of the work day, BE Contractor shall check all spaces and clean up any loose material that may have fallen in classrooms below, including the repair of ceilings, if necessary. Following cleanup, plastic sheeting shall be folded up so as not to deposit debris on furniture and disposed of. Cleanup (if necessary) and removal of plastic sheeting shall be completed not less than one (1) hour prior to end of work day, allowing custodial staff time to perform regularly scheduled cleaning and maintenance in these spaces before the end of their shift.

12. BE Contractor shall do the following:
 - a. At the start of a new work area, BE Contractor shall completely cover all furniture in classrooms and spaces immediately below or adjacent to the work area with plastic sheeting. Upon completion of that work area, BE Contractor shall check all spaces and clean up any loose material that may have fallen in classrooms and spaces below. Following cleanup, plastic sheeting shall be folded up so as not to deposit debris on furniture and disposed of as per regulations.
13. This Prime Contract shall understand that all related activities for this scope may require work to proceed while existing systems are required to be maintained; all cost associated with this sequence shall be incorporated into the Bid.
14. Environmental Protection: Provide protection, and conduct construction in ways and by methods that comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
 - a. Restrict use of noisemaking tools and equipment to hours that will minimize complaints from persons or firms on or near the Project site.
15. Provide dust control within delineated building site while the Work of this Contract is being performed. Limit situations that may create dust contamination while Work of this Contract is idle. **ALL POWER TOOLS MUST HAVE VACUUM ATTACHMENTS.**
16. Provide all demolition as indicated in the Construction Documents, or required for Work of this Prime Contract:
 - a. Coordinate all demolition with Hazardous Materials documents. Coordinate with all other Prime Contracts regarding removals required for the Project. Demolition of a system shall mean any and all components removed in their entirety, to the point of origin, source or substrate.
17. Provide cut and patch work related to that of this Prime Contract, and at those areas specifically identified in the Construction Documents, regardless of trade creating the area to be patched.
 - a. Each Prime Contract is responsible for all other respective cutting and patching required of their installations (refer to Section 01 73 29 for further information).
18. Provide all miscellaneous wood blocking, shimming and supports for items or equipment installed under this Prime Contract, and as coordinated with other Prime Contracts for metal strapping and/or wood blocking for installation of MEP contract Work.
19. All roof curbs are supplied by MC-01 and installed by BE-01. Any mechanical fasteners, blocking, and insulation, associated with roof curbs is by BE-01 and **will not be provided by Tremco.**
20. Removal of roof ballast via vacuum may not take place during school hours. This work must be summer, second shift, or weekends/holidays. At the contractor's discretion.

21. **All rooftop and under-roof steel support is furnished by MC-01. BE-01 will be responsible for all flashing of any dunnage, penetrations, and pitch pockets. Pitch pockets shall be furnished and installed by BE-01. BE-01 shall review MEP & S drawings to coordinate locations and quantities of pitch pockets.**
 22. Final connection of utilities to equipment provided by this Prime Contract, are by MEP contracts, unless noted or assigned otherwise.
 23. **BE-01 will be responsible to review existing roof conditions prior to bid and incorporate crickets and or infill for any areas seen to be insufficiently pitched or ponding water exceeding the limits identified in the contract documents. BE-01 shall provide the cost for labor and material in their bid to sufficiently remedy these areas.**
 24. Substantial Completion: Clean all BE Contractor installations and provided equipment at the time of Substantial Completion or as directed by Construction Manager.
 25. Refer to Division 00 Section "Project Forms" and make use of these forms for the installation and coordination of the Work. These forms are included to assist this Prime Contract with coordinating the installation of Work by others prior to enclosing and/or finishing work. Owner will not compensate Prime Contract for work not properly coordinated that result in added work, or removal of work. Secure the proper signatures or acknowledgements, as indicated, prior to installing/completing the Work.
 26. Coordinate all the preceding requirements, accordingly, with all applicable Alternates indicated in Section 01 23 00 "Alternates".
- F. **NOTE: The district will provide all roofing materials via a OMNIA corporative contract vendor (Tremco). The prime contractor is to review scope and coordinate with this vendor. All labor to furnish and install scope depicted on the contract documents is by BE-01.**
- a. Contact Justen Frye @ Tremco for additional information on pricing & technical questions.
 - 1) Phone Number: 908-910-4394
 - 2) Email: JFrye@tremcoinc.com
- G. Supplemental Temporary Facilities and Controls by BE Contractor include, but are not limited to:
1. Waste Disposal Facilities: See Subparagraph 1.7.N of this Section.
 2. Snow and Ice Removal: Provide removal of snow and ice until Substantial Completion of the Project, or as required to avoid delays in the Schedule.
 - a. Removal includes temporary roadways, Owner provided contractor parking areas, staging areas, remote staging areas, sidewalks, exterior temporary ramps and stairs within the construction and staging area.

- b. Removal shall include open areas of the Project building that is under construction, including, but not limited to: SOG, SOD and roof deck areas.
3. Temporary Barricades: Provide, maintain and eventually remove all temporary barricades per OSHA Regulations, Industry Standards, or as indicated in the Construction Documents. These include, but are not limited to, the following areas:
 - a. Roof openings/penetrations.
 - b. To isolate Abatement areas.
 - c. To isolate renovation areas.
 - d. Floor openings/penetrations, including stairwells.
 - e. Installation shall be insulated if temporary heat or cooling is being employed.
4. Temporary Doors, Frames & Wall Assemblies: Provide, maintain and eventually remove all temporary installations per OSHA Regulations, Industry Standards, or as indicated in the Construction Documents. Provide fire rated assemblies as required. Provide exit (panic bar/crash bar) devices at locations of egress. Coordinate locations with Construction Exiting Plan, Sequencing/Phasing Plans, and the Construction Manager. Temporary doors shall be constructed using 1/2' plywood and 2x construction, equipped with hasps, locks, handle and latch mechanism, and spring or counter weight installed to allow door to close after opening. Permanent doors will not be used in temporary conditions.
5. Temporary Heat: The existing heating system and ventilation system in the building area are not to be used for temporary heat or ventilation in construction areas. The contractor for General Construction must provide temporary heat in construction in construction areas. Provide submittal for temporary heat strategy that states what equipment will be used and where fuel will be stored. Fuel source cannot be located in the building. Heaters with self-contained fuel sources are not allowed to be placed in the building.
6. Temporary Window Openings: Window openings shall be enclosed using 2x construction, 1/2' plywood, and reinforced polyethylene. Where window opening start at or near the floor, plywood shall be installed from finish floor to minimum of 42" AFF; reinforced poly may be installed from this point up. Should contractor choose to install plywood across the entire opening, sufficient area will be installed with reinforced poly to allow emergency escape, if required, and to allow natural light into the work area.
 - a. Installation shall be insulated if temporary heat or cooling is being employed.
7. Temporary Exterior Wall Enclosure: Provide and maintain temporary enclosures for weather protection and security of the construction in progress up until completion of permanent installation specified. Enclosures shall protect the building from exposure, foul weather, other construction operations, and similar activities. Provide temporary weather tight enclosure for building exterior.
 - a. Where heating and cooling is needed and permanent enclosure is not complete, provide insulated temporary enclosures. Coordinate enclosure with

- venting and material drying or curing requirements to avoid dangerous conditions and effects.
- b. Install tarpaulins securely; install fire retardant materials only.
 - c. Where temporary wood enclosures exceed 100 sq. ft. in area, use fire retardant treated materials for framing and sheathing.
 - d. All cost incurred to repair and/or replace materials damaged, due to the failure of BE Contractor to provide and maintain weather tight enclosure shall be borne by this Prime Contract. This includes any contamination of materials that may lead to the introduction of mold and mildew.
 - e. Immediately notify the Construction Manager, in writing, as to damage to temporary enclosures by "others"; identify responsible party in the submission. Owner shall not be liable for damages caused by "others" if Prime Contract cannot identify responsible party.
8. Temporary Sanitary Facilities: Provided by each contractor.
9. Project Identification Sign(s) and Construction Access Control Sign(s): Provide sign(s) as indicated in the Construction Documents.
- a. Seek approval of all signs for text and graphics prior to fabrication via shop drawing submittal.
 - b. Engage an experienced sign company to provide graphics for Project sign(s).
 - c. Construct Project Identification Sign of high density 4' x 8' Sign-Grade plywood.
 - d. Construct Construction Access & Control Signs of high density 4' x 4' Sign-Grade plywood.
 - e. Install sign(s) per Construction Manager's directive, or as indicated on Site Logistics Plan.
 - f. Erect sign(s) on support of posts or framing of preservative treated wood.
 - g. Contractor identification signs will not be allowed outside the limits of the site perimeter fence. **NUFSD – SITE SAFETY AND PROJECT INFORMATION REQUIREMENTS SIGNAGE**
 - 1) Nanuet School District- Emergency contact name and telephone number xxxxxxxx—xxxxx-xxxxxxx
 - 2) Nanuet work hours- Weekday 7AM-9PM Weekends per town requirements.
 - 3) Nanuet emergency contact number. Xxx-xxx-xxxx
10. Existing Stair Usage: Use of Owner's existing stairs in unoccupied areas will be permitted, provided that at Substantial Completion, stairs are restored to conditions existing before initial use.
- a. Provide photo documentation of existing stair conditions prior to use by all Prime Contracts. Document during use, and at completion of the Renovation Project in order to document any and all damage to the Owner's property.
 - b. Provide protective coverings, barriers, devices, signs, or other procedures to protect stairs and to maintain means of egress. If, despite such protection,

stairs become damaged, restore damaged areas so no evidence remains of correction work.

11. Provide all shoring required for Work of this Prime Contract, including but not limited to;
 - a. Cutting or altering of existing construction.
 - b. Provide protection of all new and existing surfaces during the Work. Do not stand, walk, or work off of any unprotected finished surface above the floor.
12. Maintain temporary fencing and barricading to keep unauthorized persons away from excavations and hazardous areas for which this Prime Contract is responsible.
13. Traffic Controls: Provide flagman while any operations of this Prime Contract interfere with traffic flow on adjacent roadways.

END OF SECTION 01 12 01

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SECTION 01 12 02 – CONTRACT SUMMARY – GC-01

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

This Section includes a summary of each Prime Contract, including responsibilities for coordination and temporary facilities and controls. One set of Construction Documents is issued covering the Work of multiple Prime Contracts. Each Prime Contract is responsible to review all drawings and specifications for specific requirements indicated, and for a general understanding and knowledge of the work of other Prime Contracts. All Prime Contracts are responsible for all Work of their Contract no matter what drawing on which the Work appears. All Prime Contracts are responsible to coordinate their work related to the complete set of drawings and specifications, not limited to each prime contractor scope. **All Bidders should acknowledge that for each contract listed below, each contractor is their own General Contractor and subject to all General Contractor requirements.**

General Contract: The Interior Contractor shall be selected based on the bid procedure as described in the Bid Documents. Contract Bidders are responsible for (a) trade work coordination, (b) the scope contained in drawings listed below and (c) any and all additional scope specifically identified to be performed by the Interior Contractor in other Bid Packages in the Contract.

- a. Interior & Exterior Contract: All work related to Interior and exterior construction includes but is not limited to the following items: (Refer to the Contract Documents for full scope of work.
 - 1) Abatement, Demolition, ACT, GWB, Plaster Ceiling, Painting, Patching, Flooring, interior steel framing, Elevator systems, Casework, **PLUMBING.**
 - 2) Work related to drawings: *(In addition to these drawings, the contractor is required to review all specifications included in the overall*

contract that may contain related scope or detail for this specific contract.)

- a) Nanuet Senior High School
 - Classroom Renovations

- b) Barr Middle School
 - Elevator Replacement Project

B. Applicable Drawings : All drawings itemized below are to be provided complete by this Prime Contract, unless noted otherwise. In addition to these drawings, the contractor is required to review all drawings included in the overall contract that may contain related scope or detail for this specific contract.

- 1. All sink plumbing scope in relation to classroom renovations in by GC-01
- 2. All "G" drawings – Both Schools
- 3. Nanuet High School
 - a. HS-ASB-1 (general flooring in classrooms)
 - b. HS-AD000, HS-AD101, HS-AD102, HS-AD103, HS-AD112, HS-AD113,
 - c. HS-A102, HS-A103, HS-A112, HS-A113, HS-A500, HS-A801, HS-A811, HS-A832 (Portable Furniture by district), HS-A900
- 4. Barr Middle School:
 - a. BM-AD100, BM-AD101 (elevator scope only)
 - b. BM-A100, BM-A101 (elevator scope only),
 - c. All plumbing drawings (elevator scope only)

1.3

This GC-01 contract requires the awarded entity to self-perform the largest scope of work shown in the contract documents. There are no provisions within this contract to solely subcontractor ALL trade scope required to complete the project and its design intent. All other work in this contract is allowed to be subcontracted other than as stated herein. It is further required to clearly present what scope your own forces will be doing with your bid submission. Failure to present this at time of bid will be subject to disqualification.

1.4 It is the GC's responsibility to review the MEP drawings to coordinate the GC's portion of the work with MEP.

- 1.5 Related Sections include, but are not limited to, the following:
- A. Division 01 Section "Work Restrictions" for use of the Project site and for requirements for continued Owner occupancy of premises.
 - B. Division 01 Section "Project Management and Coordination" for general coordination requirements.
 - C. Division 01 Section "Project Forms" for documents required for Testing and Coordination.
 - D. Division 01 Section "Temporary Facilities and Controls" for specific requirements for temporary facilities and controls
 - E. Applicable Specification Sections: All specification Sections itemized below are to be provided complete by this Prime Contract, unless noted otherwise. In addition to these specifications, the contractor is required to review all specifications included in the overall contract that may contain related scope or detail for this specific contract.
 - 1. Divisions 00 and 01 – Procurement and Contracting Requirements & General Requirements.
 - 2. Division 02- Existing Conditions
 - 3. Division 03 – Concrete
 - 4. Division 04 Masonry
 - 5. Division 05 – Metals
 - 6. Division 06 – Wood and Plastics
 - 7. Division 07 – Thermal and Moisture Protection
 - 8. Division 08 – Openings
 - 9. Division 09 – Finishes
 - 10. Division 10 – Specialties
 - 11. Division 11 – Equipment
 - 12. Division 12 – Furnishings
 - 13. Division 14 – Elevators and lifts
 - 14. Division 22 – Plumbing – NOTE: Plumbing for sinks in classrooms and for elevator replacement is by GC-01

1.6 DEFINITIONS

1.7 MANAGEMENT AND COORDINATION

- A. The Owner shall provide a Construction Manager.

1. The Construction Manager shall provide a full time construction site representative recognized as the Construction Manager.

1.8 CONSTRUCTION MANAGER

- A. The construction manager shall provide on-site administration of the Contracts for Construction in cooperation with the Architect as set in AIA Document A232TM – 2009, General Conditions of the Contract for Construction, Construction Manager as Adviser Edition, as modified.
- B. The Construction Manager shall provide administrative, management and related services to coordinate scheduled activities and responsibilities of the Multiple Prime Contractors with each other and with those of the Construction Manager, the Owner and the Architect. The Construction Manager shall coordinate the activities of the Multiple Prime Contractors in accordance with the latest approved Project Schedule and the Contract Documents.
- C. Utilizing the construction schedules provided by the Prime Contractors, the Construction Manager shall update the Project schedule, incorporating the activities of the Owner, Architect, and Multiple Prime Contractors on the Projects, including activity sequences and durations, allocation of labor and materials, processing of Shop Drawings, Product Data and Samples, and delivery and procurement of products, including those that must be ordered will in advance of construction. The Project schedule shall include the Owner's occupancy requirements showing portions of the Project having occupancy priority.
- D. Utilizing information from the Multiple Prime Contractors, the Construction Manager shall schedule and coordinate the sequence of construction and assignment of space in areas where the Multiple Prime Contractors are performing Work, in accordance with the Contract Documents and the latest approved Project Schedule.

1.9 GENERAL REQUIREMENTS OF PRIME CONTRACTS

- A. Prime Contracts: The context used in this Section are separate Prime Contracts that represent significant elements of work that is to be performed concurrently and in close coordination with the work of other Prime Contracts for the benefits of the Owner. Each Prime Contract is recognized to be a major part of the Work.
- B. Assignment of Work: Should a conflict be indicated, Section 011200 shall take precedence over all scope of work assignments that may be indicated elsewhere within the Construction Documents.

- C. Layout and Installation: Each Prime Contractor shall schedule, layout and install their Work in such manner as not to delay or interfere with, but to compliment the execution of the work of other Prime Contracts, utility companies and Owner's operations.
- D. Extent of Contract: The Contract Documents, drawings and specifications each contain more specific descriptions of the Work facilitating which Prime Contract includes specific elements of the Project.
1. Work provided by each Prime Contract shall mean complete and operable systems and assemblies, including products, components, accessories and installations required by the Construction Documents or indicated otherwise.
 2. Prime Contractors shall exercise good judgment and perform all work according to related industry standards.
 3. The Owner is exempt from payment of Federal, State and local taxes, including sales and compensating use taxes on all materials and supplies incorporated in completing the Work; these taxes are not to be included in the Bid. This exemption does not apply to tools, machinery, equipment or other property leased by, or to, the Contractor or sub-contractor, or to supplies and materials, which even though consumed are not incorporated into the completed work. Prime Contractors, and their sub-contractors, shall be responsible for paying any and all applicable taxes on said tools, machinery, equipment or property, and upon all said unincorporated supplies and materials, whether purchased or leased.
 4. Prime Contracts shall understand that time is of the essence, and will adequately staff the Project by employing the appropriate trade's people to perform the Work; these people shall be experienced in their respective trades. A shortage of labor in the industry shall not be accepted as an excuse for not properly staffing the Project; all efforts shall be made to meet or exceed the schedule, including additional staff and/or labor hours necessary. All cost associated with this item shall be included within the Bid.
 5. Local custom and trade union jurisdictional settlements will not control the scope of the Work of each Prime Contract.
 - a. When a potential jurisdictional dispute or similar interruption of Work is first identified, or threatened, the affected Prime Contracts shall promptly negotiate a reasonable settlement to avoid or minimize the pending interruption and delays.
 - b. Contractor's trade-related issues shall not be grounds for modification or extension of scheduled completion date(s).
 6. The Work of all Prime Contracts requires close coordination with other Prime Contracts and construction personnel. Maintain flexibility and cooperation through the Project. "Out of Sequence" and "Delay" claims will only be considered when requirements of Division 01 "Administrative Requirements" have been adhered to. Delay claims must be in writing and forwarded to the Architect, per the

requirements of the General Conditions of the Contract. Claims not submitted per these requirements will be rejected and/or denied.

7. The intention of the Work is to follow a logical sequence, however, a Prime Contractor may be required by the Architect or Construction Manager, to temporarily install, omit or leave out a section(s) of Work, out of sequence. All such out of sequence work, and come back time, at these areas shall be performed at no additional cost to the Owner.
- E. Substitutions: Per Division 01 Section "Substitution Procedures", each Prime Contractor shall cooperate with the other Prime Contractors involved, to coordinate approved substitutions with remainder of the Work. Contractors shall submit all "Substitutions" at least ten (10) days prior to the date for receipt of Bids as specified in the Instructions to Bidders 002113 Section 3.3 Equivalents or bid will be considered per "basis of design".
- F. Construction Schedules: Refer to Divisions 01 Section "Construction Progress Documentation", "Preliminary Schedule" and "Project Management and Coordination" for requirements related to meetings and schedules.
- G. Construction Sequencing and Phasing: Prime Contractor shall understand that Sequencing and/or Phasing Plans are contingent upon the work areas being complete/occupied, prior to the next area of Work beginning. Should an area of construction not be complete per the Project Preliminary Schedule, the Project Master Construction Schedule/Sequencing Plans will be adjusted accordingly. The Owner will not be responsible for delay claims due to adjustments being no fault of their own.
 1. Prime Contracts may be required to re-sequence the phasing of the project as a result of changes to the schedule. Prime Contracts shall provide these adjustments at no additional cost to the Owner.
- H. Existing Conditions: Each Prime Contract shall verify existing conditions in the field prior to work commencing in that area and immediately report conditions to the Architect that are not represented correctly by the Construction Documents.
 1. Each Prime Contract is responsible for familiarizing himself with Project Site Logistics and provide a "site logistics plan locating storage area, scaffolds, rubbish areas, stock piles and egress related to all work, included phased construction within 30 days of award.
 2. Each Prime Contract has been given ample opportunity to review Existing Conditions related to the Project. Existing Conditions not noted in the Construction Documents that could be easily recognized during pre-bid review that interfere with the respective Prime Contract's work, shall be the responsibility of the respective Prime Contract. This includes all costs associated with removal, patching, relocation or re-fabrication of installations.

- I. Hazardous Materials: Each Prime Contract shall familiarize themselves with the Hazardous Materials Sections/Drawings of the Construction Documents and follow DOL/OSHA/EPA/SED regulations while performing their respective Work in these areas. Discovery of non-identified or concealed hazardous materials shall be reported to the Construction Manager immediately and followed up with written documentation of the event.
- J. Protection of Installations: Each Prime Contract is responsible for protecting their installations at all times. All costs incurred to repair, replace or clean insufficiently protected materials/installations shall be the responsibility of the installing Prime Contract.
 1. Architect shall be notified, in writing, immediately upon material/installation being damaged; notification shall indicate responsible party.
 2. Owner will not be liable for damaged materials and/or installations by "others", when "others" cannot be identified.
 3. Repair damaged work, clean exposed surfaces or replace construction installations that cannot be repaired.
 4. Each Prime Contract shall be responsible for removing all labels not required to remain from their installations.
 5. Installations shall be wiped clean and proper protection then installed.
 6. Each Prime Contract is responsible to protect another primes work in the event that prime has to work over or on top of that other primes work being complete. The prime working over the completed work takes full responsibility of that other primes completed work both in condition and operation.
 7. Gc shall install heavy duty "Ram Board" or equivalent to protect new floor surfaces from damage until final cleaning and acceptance by owner.
- K. Daily Cleaning: All Prime Contracts are responsible for any and all debris caused by their Work, including the Work of their subcontractors. A daily clean up and disposal is required by each Prime Contract for the periods which that Prime Contract, or its subcontractors, are performing Work on site.
 1. Assign at least one person for a daily clean and sweep of the work area(s). Prime Contractor shall allot sufficient manpower and time for this to be completed by the end of each shift. Submit name of this person(s) to Construction Manager.
 - a. Construction Manager shall have the authority to give direction to person(s) on the Project Site identified by the Prime Contract as designated for cleanup tasks. This shall include the safety review/securing of the site-work zone after each shift.
 - b. This person has check that no construction debris was dumped in any district dumpers during this end of shift site review, if found the contractor must

- remove immediately the next morning to avoid back charges costs of \$1500 per day not removed.
2. Any Prime Contract not providing personnel for Daily Cleaning will be Back Charged for labor provided by the Owner to complete this task.
 3. Contractor working solely in an area shall be responsible for clean/sweep of that area.
 4. Daily cleaning will not mean any one Prime Contract is responsible for assisting another Prime Contract with removing major quantities of debris created by a particular Prime Contract's Work.
 5. Daily cleaning will be mandated to remove from the building any debris created by day-to-day activities. All Prime shall assist in sweeping shared work areas and shared corridors while working on site. Each Prime shall assist in mopping of shared corridors while working on site or as required by the Owner.
 6. All prime contractors and subcontractors are required to provide sweeping compound for daily cleaning in their respective exterior and interior work areas. Each Prime Contract shall provide a sufficient number of brooms or other necessary tools, for use by their personnel to adequately fulfill their obligations.
 7. All prime contractors shall provide and maintain garbage cans/refuse containers with liners for each construction area of their respective contracts as directed by the Construction Manager and shall be responsible for disposing of these materials to a dumpster.
 8. All prime contractors provide the necessary equipment/containers (lull/skip-box) to move daily clean/sweep debris from the building to a dumpster on a daily basis, for each construction area of their respective contracts. Skip-box shall be emptied to a dumpster by 9:00 a.m. the following day.
 9. Cleaning shall be deemed a Safety & Health issue, with Prime Contracts being held accountable for fulfilling their contractual obligations.
- L. Final Cleaning: At Substantial Completion of each area of construction, each Prime Contract shall wipe/vacuum clean all of their respective installations; All interior contracts performing work inside the buildings shall mop clean all building surrounding areas and finish flooring and remove all marks/blemishes to the finish, for each construction area of their respective contracts. Each area of construction shall be wiped clean of all construction dust and debris prior to turnover to the Owner.
- M. Cutting and Patching: All Primes are responsible for cutting and patching required to complete their Work. All repair of existing finish Work (including finish floors) shall be performed by contract requiring work, meeting or exceeding minimum contract requirements for that particular section, specification, or type of work. All concealed openings (piping, ductwork, conduit, etc.) must be repaired to comply with specified wall or deck conditions as well as required fire and sound ratings. All corridor penetrations require fire safing. If contractor elects to install their new work in an existing unrated wall

or floor opening, whereas the wall/floor is a fire rated condition, that contractor is responsible to fire rate that opening to match the wall/floor fire rating with new and all other existing wire, piping, ducts etc. Other areas are noted in drawings and specifications.

- 1.10 Project Schedule. The nature of this project is to complete all the work listed as Phase 1A in the schedule by **the Project Closeout Dates specific to each Prime Contract as listed below**. Each Prime Contractor shall include in their bid proper allowances for foul weather.
- A. Bids Received: 7/11/2023
 - B. Notice to Proceed: 8/1/2023
 - C. Submittals: The following items are to be submitted within 60 business days after Notice to Proceed:
 - 1. Submittal List and Submission Schedule – **15 days after NTP**
 - 2. Field Investigations
 - 3. Shop Drawings
 - 4. Long Lead Items – **30 days after NTP**
 - 5. Schedule of Values and Key Submittal List – **15 days after NTP**
 - D. Mobilization: 6/28/2024
 - E. Substantial Completion and Project Closeout:
 - 1. **General Contract 01**
 - a. Substantial Completion: August 24, 2024.
 - b. Project Closeout: October 31, 2024
- 1.11 TEMPORARY FACILITIES AND CONTROLS OF PRIME CONTRACTS
- A. Conditions of Use: Keep temporary services or conditions clean and neat in appearance. Operate in a safe and efficient manner. Relocate temporary facilities as required as work progresses; do not overload facilities or permit them to interfere with progress. Take necessary fire prevention measures; do not allow hazardous, dangerous, or unsanitary conditions to develop or persist on the Project site.
 - 1. Installation, operation, maintenance, and removal of each temporary service or condition are considered part of the respective Prime Contract's own construction activity, as are costs and use charges associated with each facility.

2. Locate service or condition where they will serve the Project adequately and with minimum interference of the Work, coordinate with the Construction Manager and the other Prime Contracts prior to installation.
- B. Temporary Use of Permanent Facilities: Prime Contract, as installer of each permanent service or condition, shall assume responsibility for its operation, maintenance and protection during use as a construction facility prior to the Owner's acceptance, regardless of previously assigned temporary facilities and controls responsibility.
- C. Owner's Facilities: Contractors are not allowed to use the Owner's facilities (toilets, telephones, food service, etc.) for their own benefit or convenience. Prime Contract Superintendents shall enforce this policy with their respective work forces.
1. Construction personnel parking will be restricted to area as directed and agreed to by the Owner, and to facilitate the completion of the work. Owner reserves the right to remove from their property, unauthorized vehicles occupying unauthorized areas, at respective vehicle owner's expense.
- D. Storage on the Project Site: Each Prime Contract shall provide sufficient secure weather-tight storage facilities for their materials and equipment. These storage containers are required to be located on the "site logistics plan." The Owner's facilities and the Project's building areas shall not be used for storage unless agreed upon, in writing, with the Owner via the Construction Manager.
1. Until permanently incorporated into the Work, all materials on the Project site are considered to be the Prime Contract's responsibility for security and protection.
 2. Prime contractor is required to check on their onsite stored material periodically to ensure that all material continues to be located in the stored location and that it remains protected from all damage, theft, and endangerment to others and ready to be used on notice for coordination with other contractors. Failure to arrange for materials to be on site to complete coordinated work with other Prime Contractors will result in back charges for delays resulting therefrom.
 3. Temporary long-term storage facilities are not available to Prime Contracts by the Owner.
 4. Prime Contractors and their subcontractors, shall coordinate deliveries with the Construction Manager to ensure that disruptions and Owner inconvenience are avoided.
- E. Tools and Equipment: Each Prime Contractor shall provide all tools and equipment necessary for its own activities; this includes secure lock-up and storage for all items on the Project Site.

1. Provide all construction aids and miscellaneous services and facilities necessary exclusively for its own construction activities; this shall include any additional supplementary power, ventilation, lighting requirements and weather protection.
- F. Project Site Communication: Each Prime Contractor shall provide their Project a full time on site at all times Superintendent with a mobile phone for the duration of the Project, as indicated in their Scope of Work. Construction Manager shall be furnished with contact numbers associated with each phone.
- G. Safety: Prime Contracts, not the Architect or Construction Manager, are responsible for Project Site Safety, as related to their operations (refer to Section 013150 "Special Procedures" for further requirements).
1. Each Prime Contract shall correct safety hazards and violations immediately. If safety issues are not immediately rectified, the Owner shall secure outside sources to correct the deficiency and back charge the responsible Prime Contract.
 2. Maintain unobstructed access/egress to fire extinguishers, fire hydrants, stairways, corridors, ladders and other safety routes/devices.
- H. Fire Extinguishers: All Prime Contracts provide and maintain "general use" fire extinguishers for each construction area of their respective contracts; comply with applicable codes for quantities required. Use of the Owner's fire extinguishers to meet this requirement is not permitted. Comply with NFPA for recommended classes for exposure; extinguishers shall be inspected and appropriately tagged prior to being brought on site. Provide stands, painted bright orange, sturdy enough to carry the extinguisher, and built as not to create a tipping hazard.
1. Each Prime Contract shall supplement this requirement by providing additional fire extinguishers specifically related to their work activity (e.g., welding, soldering, abrasive cutting, etc.).
 2. Each Prime Contract shall provide and maintain proper fire extinguishers at/in their respective on site office and storage facilities.
 3. Store combustible materials in approved containers in fire-safe locations.
- I. Welding: Any Prime Contract performing welding, cutting or other activities with open flames or producing sparks shall at a minimum:
1. Coordinate interruption/shutdown of detection system(s) to avoid creating false alarms.
 2. Protect the area and surrounding areas from fire and damage.
 3. Maintain fire extinguishers, compatible with activity, at the location of the activity.
 4. Provide a continuous Fire Watch during the activity and one-half hour beyond the completion of the activity.
 5. Provide all necessary fans and ventilation required for the activity.

6. Any welding, burning and or use of flame the contractor is required to provide all required "hot work permit" to use such equipment prior to start of work. Its mandatory that no "hot work" shall start without these permits issued to the CM and Owner. Failure to this requirement will result to the removal of the project super of that company from all district projects.
- J. Remove each temporary facility when it can be replaced by the authorized permanent facility no later than Substantial Completion, or as directed by the Architect and/or Construction Manager. Complete or restore permanent facilities that may have been delayed due to interim use of a temporary barrier or condition.
- K. Temporary Power: Each Prime Contractor shall provide for their own temporary power needs for any scheduled electrical utility shut downs. Each Prime Contractor shall provide for their own temporary generators, power cords and temporary lighting as needed during these periods to continue to perform their work and maintain adherence to the Preliminary Schedule and approved Project Master Schedules. All temporary power equipment shall comply with all applicable codes and regulations.
- L. Waste Disposal Facilities:
 1. General debris/refuse/construction waste containers (dumpsters) shall be provided by each prime contractor and secured as specified herein this contract.
 2. It shall be the responsibility/requirement of each Prime Contract to bring their waste to the dumpsters, including but not limited to all equipment, demolition debris, discarded materials with further identification including the following; construction and demolition debris refers to discarded materials generally considered non-hazardous in nature, including but not limited to steel, glass, brick, concrete, asphalt material, pipe, gypsum wallboard, and lumber, from the construction or destruction of a structure as part of a construction or demolition project or from the renovation of a structure, including such debris from construction of structures at a site remote from the construction or demolition project site.
 3. It shall be the responsibility and requirement of each Prime Contract to recycle metals generated by its Work, and the Work of its subcontracts.
 4. Joint-effort recycling by all Prime Contracts is encouraged.
- M. Temporary Sanitary Facilities: Provide temporary self-contained toilets units for duration of the project.
 1. Temporary Sanitary Facilities:
 - a. Each prime contractor is required to provide their own Temporary Sanitary Facilities and secured behind fencing and/or locked after work hours and weekends.

2. Comply with regulations and health codes for type, number, location, operation, and maintenance of fixtures and facilities.
3. Provide separate facilities (minimum of one ea.) for male and female personnel in proportion required by OSHA.
4. Shield toilets to ensure privacy.
5. Coordinate mobilization and demobilization of units with Construction Manager.
6. Toilets shall be cleaned at least once per week, with additional facilities or cleanings provided if requested by Construction Manager.
7. Provide and maintain adequate supply of toilet tissue and hand sanitizer for each facility.

1.12 WORK HOURS & SEQUENCE

- A. Unless otherwise approved by the Construction Manager, During the school days, Work is to be performed in this contract during the hours of 3:30pm to 10:00pm on weekdays, and Saturdays and Sundays from 7:00am to 3:30pm. During School breaks, work is to be performed from 7:00am to 10:00pm. There is no additional cost to the owner for working the hours of 3:30pm through 10:00pm, or weekend work during the school year. Any work done during these times MUST BE COMPLETED, CLEANED, AND TESTED AS NECESSARY FOR STUDENT OCCUPANCY BEFORE THE START OF THE NEXT SCHOOL DAY. Contractors are required to schedule work during school breaks, school days off, and school holidays.
- B. Summer work starts June 28th through August 23rd for 2024. The Summer working hours are from 7:00am to 9:30pm. There is no additional cost to the owner for working the hours of 3:30pm through 9:30pm or on weekends and holidays during the Summer.
- C. Contractors are required to start working on site within 30 days of execution of contract, to the extent permitted by contract. Contractors are required to coordinate and perform work simultaneously with other Contractors. Contractors are required to complete their contract work by the designated Substantial Completion and Final Completion end dates as indicated on the Invitation to Bid.
- D. Mandatory clean up periods - From August 24th, 2024 to August 31st, 2024 and August 30th, 2024 to September 6th, 2024, contractors shall clean up all interior and exterior areas.
- E. Contractors are required per contract to fully staff the project during the work shifts stated above with the required manpower to complete their work within the allowed scheduled time frame. Contractors are required to provide a 72-hour advanced request to the Owner via the Construction Manager for any Saturday and Sunday work. If a project schedule delay has been caused by the fault of the contractor, the contractor is

required to provide 3rd shift work from 9pm to 6am to make up the project schedule. All costs for CM, Architect and district personal related to this 3rd shift request will be charged to the contractor at a combined rate for all at \$3,000 per 8hr shift.

- F. The shifts noted above are not considered overtime or premium time hours.
- G. Contract summaries will provide start and end dates for each contractor.
- H. Additional requirements:
 - 1. Multiple Crews: Each Prime Contract shall provide multiple crews, supervision, cranes, scaffold and other means necessary to perform the Work, and maintain the Project Master Schedules.
 - 2. Interruption of any utility and/or power must be coordinated with the Owner, via the Construction Manager.
 - 3. Any and all overtime, weekend and/or holiday work required to meet the Project Master Schedules shall be incorporated in the respective Prime Contract's bid.
 - 4. Should a Contractor's progress fall behind, as to schedule, Prime Contractor shall employ additional – 3rd shift and/or overtime and/or weekend workforce until situation is rectified, to the satisfaction of the Architect and Construction Manager, at no additional cost to the Owner, however subject to charges as stated in section 1.10 E for lack of maintaining schedule
 - 5. Should a Prime Contract feel another Prime Contract is delaying them sufficient time to complete their installations, per the schedule, the Architect and Construction Manager shall be notified in writing immediately of the situation (refer to Conditions of the Contract for protocol). A Prime Contract creating such a delay, that causes a proven burden upon another Prime Contract to maintain schedule, shall bear all costs incurred by the delayed Prime Contract to maintain the schedule.
 - 6. The Architect and Construction Manager shall not be overburdened as to overtime cost, to monitor the work, due to no cause of his or her own. Owner will compensate the Architect and Construction Manager for all additional cost related to the issue of a Prime Contractor's failing to execute the Contract by fully staffing per the work hours and days noted herein. The Owner reserves the right to back charge the responsible Prime Contract for these fees if incurred.
 - 7. All Asbestos and/or Lead Abatement shall take place to meet the requirements of the Preliminary Schedule and Project Master Schedules and shall be coordinated with the other Prime Contractors prior to commencement.
- I. The Work shall be conducted to provide the least possible interference to the activities of the Owner's personnel and the surrounding property owners (neighbors).
 - 1. Prime Contracts are hereby notified that: All Prime Contractors and their subcontractors shall limit excessive noise during 2nd shift known as work

extending to 10PM weekdays upon approval by owner and city work hour restrictions. These operations shall not create a disturbance to neighboring properties.

- J. Construction access to the site shall be limited to personnel, equipment and deliveries by suppliers relative to the Work of Prime Contractors and their subcontractors. Prime Contracts shall keep the Construction Manager advised of persons accessing the site and shall seek assistance with coordinating parking and storage facility locations for all Prime Contracts.
 - 1. Where applicable, Contractors shall provide Building Site perimeter barricades as described herein the project and all temporary exit doors/lockable gates on the Project, securing these doors, fencing and/or gates at the end of each work shift.
 - 2. When a Prime Contract engages in overtime, weekend or 2nd shift work, during the summer months and or during the normal school year, the respective Prime Contract shall notify Construction Manager of such and be responsible for securing the Project Site at the end of that work shift and perform site walk around the outside of construction area/work zone ensuring all debris is pickup up and there are no construction related hazards of any kind present once the responsible person leaves the site for the evening or weekend. This includes that all materials and equipment are fenced in and keys are removed. All interior projects have the same requirement to ensure that outside the work zone is clean from dust-dirt and that no materials are left outside the work area at any time.

1.11 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.12 DRAWINGS AND SPECIFICATIONS

- A. Construction Documents indicate the sum total of the Contract that make up the complete work for the Project. Through this Section "Summary of Work", the intent of the Contractor's scope of Work and responsibility is generally described. Related requirements and conditions that are indicated in the Contract Documents include but are not limited to the following:
 - 1. General Conditions and Requirements.
 - 2. Referenced and applicable Codes, Regulations and Standards.
 - 3. Scheduling and phasing requirements.
 - 4. Existing conditions and restrictions on use of the site and facilities.

- B. Drawings and Specifications are cooperative and supplementary. Portions of the Work, which can best be illustrated by Drawings, are not included in the Specifications and portions best described by Specifications are not depicted on Drawings.
1. All items necessary to complete the work shall be furnished whether written or illustrated.
 2. All primes shall exercise good judgment and perform all work according to related industry standards.

PART 2 - SCOPE OF WORK

2.1 PRIME CONTRACTS

- A. Scope of Work: Work includes but is not limited to, the following:
1. Provide all work identified in the Contract Documents.
 2. All Specification Sections provided.
 3. All abatement drawings provided for reference.
 4. GC is responsible to install all required access hatches. GC to coordinate with MEP trades for locations and hatches.
 5. GC is responsible to install sleeves in foundation walls for penetrations by other prime contractors, MEP contractors to provide GC a written sketch showing exact height/locations with distance from column line and depth below finished slab within sufficient time for GC to install. If information is not provided in a timely manner by MEP, then core drilling is the responsibility of the affected contractor.
 6. GC will coordinate MEP opening sizes and locations (HVAC units, louvers, vents, etc) with MEP trades. Lintels for these openings are provided and installed by the GC.
 7. Fire alarm mag holds furnished and wired by EC, and will be installed on doors by GC.
 8. **GC-01 is responsible for all sink plumbing scope in relation to the classrooms.**
 9. **GC-01 is responsible for all plumbing scope in relation to the Middle school elevator replacement and machine room.**

PART 3 - EXECUTION

3.1 WORK SEQUENCE

- A. The Work shall be conducted to provide the least possible interference to the activities of the Owner's personnel, per the Project Preliminary Schedule.
- B. Work required during overtime, extended shifts or holidays due to failure of contractor to maintain schedule, will be monitored by Architect/Construction Site representative, and may be monitored by Owners' personnel. Additional costs for Architect/Construction Site Representative and/or Owner personnel will be borne by the Contractor.
- C. Coordination of any utility and power interruption must be done with approval of the Architect/Construction Site Representative. Shutdowns must occur during non-occupied timeframes only.
- D. Construction access to the site shall be limited to those designated for personnel, equipment and deliveries by the Owner. All contractor staging, parking and storage shall be coordinated with the Construction Site Representative and subject to change.
- E. Payments: Each bid that covers more than one school (i.e. one SED project) shall provide completed AIA G732 & G703 by building (for each SED project).
- F. No work shall be installed without approved shop drawings. Any work in place without approved shop drawings will be rejected and removed by that contractor at their expense and backed charge all other costs related to.
- G. Any work deemed by CM, Architect and District not properly installed by a contractor per the contract drawings and specifications shall be removed immediately and corrected, with all associated costs to be borne solely by that contractor.
- H. All prime contractors shall coordinate their contract work with other primes to meet the project schedule and for a complete operational system or area or work.
- I. All contractors are to provide within 3 weeks of award a "base line" construction schedule for their work from commencement to completion including all phasing. This schedule is to be updated monthly to show percentage progress of each item listed. This schedule shall be revised to provide a recovery schedule in the event of a delay for any reason. The recovery schedule shall include the "base line" item and the recovery to show how the delay is affecting the overall project schedule. This schedule is to be provided in MS Project or Primavera. Excel schedules are not accepted.
- J. Prime contractor "base line" schedules are to be reviewed by each prime contractor and coordinated where work is related and that each prime's work shall be included in each "base line" contractor's schedule as necessary for coordination.

- K. All contractors are to provide 2-week look ahead schedules showing work related to the base line and shall be coordinated with other prime 2-week look ahead schedules. These schedules will be Excel format. Format will be provided by the CM.
- L. Contractors to provide a full-time supervisor on site 100% of the time. This is not a working foreman. Supervisors are not working with tools they are supervising their workers and coordinating with other contractors and district/ CM. Failure to provide will be default of your contract and subject costs related to and termination.
- M. All prime contractors are the provide a project manpower structure showing names and telephone numbers of each responsible person on the project. This shall be updated as needed if personal changes are made.
- N. All site equipment and dumpsters are to be behind temporary chain link fence when stored on site and or within the construction work zone where temporary chain link fence has been providing and installed by the prime. Each prime contractor is responsible to provide and install temporary chain link fence around their own stored equipment and dumpsters on site.
- O. No equipment, panels or any services shall be turned off for any reason without written request and approval by the district. Project form shall be used for all shutdowns and required a 3-day notice. Other shutdowns may require more time.

3.5 CONTRACT No. 2 GENERAL CONTRACT (GC-01)– GENERAL CONSTRUCTION PRIME CONTRACT FOR INTERIOR WORKS AT CONTRACT AT NANUET SENIOR HIGH SCHOOL & BARR MIDDLE SCHOOL.

- A. Project Site Superintendent: GC shall provide one (1) full time, non-working Project Site Superintendent while any work related to this Contract is being performed. Superintendent shall be responsible for the daily activities of this Contract and work closely with the Construction Manager and the other Prime Contract Superintendents/Foremen, in a manner that best promotes the objectives of the Project.
- B. Superintendent shall be on-site while Contractor's own forces, and/or subcontractors are performing work on the Project Site; also while other Prime Contracts are installing work, or require the coordination of work related to this Prime Contract, and/or as requested by the Construction Manager.
 - 1. Superintendent shall be the same individual throughout the duration of the Project.
 - 2. Project Site Superintendent shall be an individual with minimum of five (5) years' experience in this field of work.

3. Refer to Section 013100 "Project Management and Coordination" for further requirements.
- B. Project Foreman: GC shall provide at least one (1) full time Project Foreman during each shift of work at each school; Foreman shall be able to make binding decisions, as they relate to the daily activities of their crew, as related to achieving the goals of the Project.
- C. Site Communications: GC shall provide Project Superintendent with a mobile phone; all costs and service charges shall be paid for by GC; provide Construction Manager with contact number(s).
- D. Project Site Field Office: Provide site office facilities for this Contract's Project Superintendent. Site Office shall be equipped with telephone with answering machine, fax and e-mail. Contact information shall be provided to the Construction Manager.
 1. The Owner reserves the right to seek reimbursement for temporary facilities not provided by this Prime Contract.
- E. Scope of Work: Work of the GC includes, but is not limited to, the following:
 1. Coordination with other Prime Contracts, Owner and Construction Manager as required to adhere to and maintain approved Project Master Schedules. Prior to first payment, this includes developing and submitting the Project Master Schedule for Interior works
 2. Provide all interior demolition as indicated in the Construction Documents, or required for Work of this Prime Contract:
 - a. Coordinate all demolition with Hazardous Materials documents. Coordinate with all other Prime Contracts regarding removals required for the Project. Demolition of a system shall mean any and all components removed in their entirety, to the point of origin, source or substrate.
 3. **GC is to provide temporary panels as required for abatement work. All connections of temporary panels is by the GC own electrician. The district is not responsible for provide temporary power or connecting temporary power/panels.**
 4. Provide all new ceiling systems and patching of existing ceilings, complete where indicated in Contract Documents.
 5. Contractor access doors furnished by the prime trade requiring access; installation of all access doors will be by contract GC. General contractor is to coordinate with other primes as to location and quantity of access doors to be installed at the appropriate time.
 6. The GC shall provide and install flooring protection at all schools prior to demolition to protect the owner's property, and to accommodate storage of Owner property Flooring protection shall be 6 Mil plastic sheeting covered by Masonite hardboard of 1/8" thickness installed so as to cover entire floor area of designated spaces, with

- joints abutting one another and each joint fully taped with duct tape. At the conclusion of interior work, all interior work areas shall be cleaned and Masonite hardboard and plastic sheeting removed in order for the district to restore the classroom(s) and/or corridors. After the removal of Masonite and plastic sheeting, the exposed existing flooring shall be swept clean by the GC.
7. The GC shall provide one (1) 45' storage containers for the Owner's use, to be placed as directed by the Owner. GC shall provide a Schedule of Values line item in the base bid for storage trailers. If Owner chooses not to utilize this provision, the value of the storage trailers shall be credited back to the Owner at the end of the project.
 8. This prime contractor shall provide ALL demolition and new construction of housekeeping pads for MEP contractors for all schools as shown on the contract documents.
 9. GC shall conform to phasing and sequencing of interior work as coordinated with the Owner. See Milestone Schedule
 10. Environmental Protection: Provide protection, and conduct construction in ways and by methods that comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
 - a. Restrict use of noisemaking tools and equipment to hours that will minimize complaints from persons or firms on or near the Project site.
 11. Provide dust control within delineated building site while the Work of this Contract is being performed. Limit situations that may create dust contamination while Work of this Contract is idle.
 12. Provide all Control Lines and Elevations as required. GC shall transfer lines and elevations to other locations as necessary.
 13. Provide cut and patch work related to that of this Prime Contract, and at those areas specifically identified in the Construction Documents, regardless of trade creating the area to be patched.
 - a. Each Prime Contract is responsible for all other respective cutting and patching required of their installations (refer to Section 01 73 29 for further information).
 14. Provide all access panels indicated, and those not indicated whereas inaccessible installations have been provided by this Prime Contract, located above hard ceilings or in walls. Access panels required for MEP equipment accessibility are to be provided by the MEP contractors and installed by the interior contractor. Coordinate locations for panels with MEP contracts.
 15. Provide all prep/paint finishes as indicated in the Construction Documents.
 16. Provide finishes including, but not limited to; CMU, gypsum board assemblies, plaster, suspended ceiling systems, and all paint and finish systems including those on all surfaces adjacent to and damaged by renovation work during the Project.

- a. Provide all associated surface preparation for each finish included in this Prime Contract.
- b. Provide all plaster wall patch at all removal locations and any locations shown on the contract documents
17. Provide all miscellaneous wood blocking, shimming and supports for items or equipment installed under this Prime Contract, and as coordinated with other Prime Contracts for metal strapping and/or wood blocking for installation of MEP for interior Work.
18. Provide through-penetration fire stop systems in unit masonry assemblies, gypsum wall construction, floor penetrations, and at all structural member penetrations as per contract documents. Contractor shall coordinate with all MEP contractors to complete the scope of work.
19. GC is specifically reminded that there may be miscellaneous asbestos pipe insulation/fittings above some ceilings and inside wall areas. Contractor will investigate above the ceiling and walls prior to demolition and carefully perform the work as necessary to not disturb any insulation/fittings.
20. GC will provide all necessary patching/self-leveling/grinding of flooring substrate to insure a smooth flat floor finish prior to installation of new VCT or urethane flooring.
21. Substantial Completion: Clean all GC installations and provided equipment at the time of Substantial Completion or as directed by Construction Manager.
22. GC to provide negative air machines to properly exhaust all work areas of any odors, dust, fumes.
23. Refer to Division 00 Section "Project Forms" and make use of these forms for the installation and coordination of the Work. These forms are included to assist this Prime Contract with coordinating the installation of Work by others prior to enclosing and/or finishing work. Owner will not compensate Prime Contract for work not properly coordinated that result in added work, or removal of work. Secure the proper signatures or acknowledgements, as indicated, prior to installing/completing the Work.
24. Coordinate all the preceding requirements, accordingly, with all applicable Alternates indicated in Section 01 23 00 "Alternates".
25. **Portions of the work depicted on the contract drawings or noted in the contract specifications are to be provided by other vendors on cooperative contracts. The prime contractor is to review and coordinate with this work. There will be work required before and after the cooperative vendors that the prime contractor will need to perform to allow installation of the vendors work.**
 - a. **The work provided by others that must be coordinated with the prime contractor includes and is not limited to:**
 - **FF&E as depicted on the contract drawings (GC to install trutouch display boards)/ Mounts will be provided by district.**

- F. Supplemental Temporary Facilities and Controls by GC include, but are not limited to:
1. Waste Disposal Facilities: Provided by each contractor.
 2. Temporary Interior Barricades: Provide, maintain and eventually remove all temporary barricades per OSHA Regulations, Industry Standards, or as indicated in the Construction Documents. These include, but are not limited to, the following areas:
 - a. To isolate new construction areas.
 - b. To isolate renovation areas.
 - c. Floor openings/penetrations, including stairwells.
 - 1) Horizontal Openings: close openings in floors and horizontal surfaces with load bearing, wood and/or steel framed construction per applicable regulations.
 3. Temporary Doors, Frames & Wall Assemblies: Provide, maintain and eventually remove all temporary installations per OSHA Regulations, Industry Standards, or as indicated in the Construction Documents. Provide fire rated assemblies as required. Provide exit (panic bar/crash bar) devices at locations of egress. Coordinate locations with Construction Exiting Plan, Sequencing/Phasing Plans, and the Construction Manager. Temporary doors shall be constructed using 1/2" plywood and 2x construction, equipped with hasps, locks, handle and latch mechanism, and spring or counter weight installed to allow door to close after opening. Permanent doors will not be used in temporary conditions.
 4. Temporary Sanitary Facilities: Provided by each contractor.
 5. Existing Stair Usage: Use of Owner's existing stairs in unoccupied areas will be permitted, provided that at Substantial Completion, stairs are restored to conditions existing before initial use.
 - a. Provide photo documentation of existing stair conditions prior to use by all Prime Contracts. Document during use, and at completion of the Renovation Project in order to document any and all damage to the Owner's property.
 - b. Provide protective coverings, barriers, devices, signs, or other procedures to protect stairs and to maintain means of egress. If, despite such protection, stairs become damaged, restore damaged areas so no evidence remains of correction work.
 6. Indoor air quality management at all areas of Construction, once building is enclosed.
 - a. Provide all necessary dust partitions, fans, temporary ducts, and barricades to properly contain and ventilate all work area fumes and odors, created by demolition and new construction or alterations, directly to the outside. Ventilate to an area outside the building, sufficiently away from the building, as

- not to contaminate other areas. There will be no additional claims honored if the Construction Manager requests additional ventilation or requirements.
- b. Provide and exhaust air system for the project indoor areas that could produce fumes, VOC's, off gasses, dusts, mists, or other emissions.
 - c. System Operation:
 - 1) A sufficient quantity of exhaust fans in existing window openings or other approved locations shall be operated.
 - 2) Exhaust air system shall operate for a minimum of 72 hours after work is completed or until all materials have cured sufficiently so as to stop out – gassing of fumes or odors and area has been ventilated to remove all detectable traces of odors and fumes.
 - 3) Maintain 25 feet clearance from all temporary exhaust outlets to all active building outdoor air intakes.
 - 4) Refer to Division 01 Section “Work Restrictions” for further information.
7. Provide all shoring required for Work of this Prime Contract, including but not limited to;
 - a. Cutting or altering of existing construction.
 - b. Provide protection of all new and existing surfaces during the Work. Do not stand, walk, or work off of any unprotected finished surface above the floor.
 8. Maintain temporary fencing and barricading to keep unauthorized persons away from dangerous and hazardous areas for which this Prime Contract is responsible.
 9. Traffic Controls: Provide flagman while any operation of this Prime Contract interferes with traffic flow on adjacent roadways.

END OF SECTION 011200

SECTION 01 12 04 – CONTRACT SUMMARY – EC-01

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes a summary of each Prime Contract, including responsibilities for coordination and temporary facilities and controls. One set of Construction Documents is issued covering the Work of multiple Prime Contracts. Each Prime Contract is responsible to review all drawings and specifications for specific requirements indicated, and for a general understanding and knowledge of the work of other Prime Contracts. All Prime Contracts are responsible for all Work of their Contract no matter what drawing on which the Work appears. All Prime Contracts are responsible to coordinate their work related to the complete set of drawings and specifications, not limited to each prime contractor scope. **All Bidders should acknowledge that for each contract listed below, each contractor is their own General Contractor and subject to all General Contractor requirements.**

B.

1. **Electrical Contract EC-01:** The Electrical Contractor shall be selected based on the bid procedure as described in the Bid Documents. Contract Bidders are responsible for (a) trade work coordination, (b) the scope contained in drawings listed below and (c) any and all additional scope specifically identified to be performed by the Electrical Contractor in other Bid Packages in the Contract.

1) Work related to drawings: *(In addition to these drawings, the contractor is required to review all specifications included in the overall contract that may contain related scope or detail for this specific contract.)*

- a) Nanuet Senior High School
 - Classroom Renovations Project
 - Hydronic Conversion & AC Projects
- b) Barr Middle School
 - Elevator Replacement Project
 - Switchgear & Transformer Replacement Project
 - Air Conditioning Projects

a. Bid Package Contract No. 04 - Electrical Work: All work related to Electrical Contractor which includes but is not limited to the following items: (Refer to the Contract Documents for full scope of work.)

- 1) Provide access panels, fire rating/firestopping, electrical work, line voltage to controllers, Transformers, Switchgear equipment, feeders for Air condition, provide all temporary power for all trades, power to all MEP equipment, lighting fixture (new, remove and replace) all patching and painting related to the installation of this scope, , all city filings and permits for any reason and as required.

2) **This EC-01 contract requires the awarded entity to self-perform the largest scope of work shown in the contract documents. There are no provisions within this contract to solely subcontractor ALL trade scope required to complete the project and its design intent. All other work in this contract is allowed to be subcontracted other than as stated herein. It is further required to clearly present what scope your own forces will be doing with your bid submission. Failure to present this at time of bid will be subject to disqualification.**

1.3 Related Sections include, but are not limited to, the following:

- A. Division 01 Section "Work Restrictions" for use of the Project site and for requirements for continued Owner occupancy of premises.
- B. Division 01 Section "Project Management and Coordination" for general coordination requirements.
- C. Division 01 Section "Project Forms" for documents required for Testing and Coordination.
- D. Division 01 Section "Temporary Facilities and Controls" for specific requirements for temporary facilities and controls

1.4 DEFINITIONS

- A. Building Site: The Building Site shall be defined in the Construction Documents, as the building footprint, and all related construction within a five-foot (5'0") distance of the

building's exterior face, unless noted or assigned otherwise. Coordinate with specific exceptions to the 5'0" limit indicated within each Scope of Work outline.

- B. Permanent Enclosure: As determined by the Architect: permanent or temporary roofing is complete, insulated, and weathertight; and all openings are closed with permanent construction or substantial temporary closures. All cost associated with failure to maintain described installations that result in any damage or contamination to the Owner's property, shall be borne by the Prime Contract responsible for the installation.

1.5 MANAGEMENT AND COORDINATION

- A. The Owner shall provide a Construction Manager.

1. The Construction Manager shall provide a full time construction site representative recognized as the Construction Manager.

1.6 CONSTRUCTION MANAGER

- A. The construction manager shall provide on-site administration of the Contracts for Construction in cooperation with the Architect as set in AIA Document A232TM – 2019, General Conditions of the Contract for Construction, Construction Manager as Adviser Edition, as modified.
- B. The Construction Manager shall provide administrative, management and related services to coordinate scheduled activities and responsibilities of the Multiple Prime Contractors with each other and with those of the Construction Manager, the Owner and the Architect. The Construction Manager shall coordinate the activities of the Multiple Prime Contractors in accordance with the latest approved Project Schedule and the Contract Documents.
- C. Utilizing the construction schedules provided by the Prime Contractors, the Construction Manager shall update the Project schedule, incorporating the activities of the Owner, Architect, and Multiple Prime Contractors on the Projects, including activity sequences and durations, allocation of labor and materials, processing of Shop Drawings, Product Data and Samples, and delivery and procurement of products, including those that must be ordered will in advance of construction. The Project schedule shall include the Owner's occupancy requirements showing portions of the Project having occupancy priority.
- D. Utilizing information from the Prime Contractors, the Construction Manager shall schedule and coordinate the sequence of construction and assignment of space in areas where the Prime Contractors are performing Work, in accordance with the Contract Documents and the latest approved Project Schedule.

1.7 GENERAL REQUIREMENTS OF PRIME CONTRACTS

- A. Prime Contracts: The context used in this Section are separate Prime Contracts that represent significant elements of work that is to be performed concurrently and in close coordination with the work of other Prime Contracts for the benefits of the Owner. Each Prime Contract is recognized to be a major part of the Work.
- B. Assignment of Work: Should a conflict be indicated, Section 011200 shall take precedence over all scope of work assignments that may be indicated elsewhere within the Construction Documents.
- C. Seismic Requirements: Prime Contracts are to be aware that the building(s) is located within a Seismic Zone indicated in the documents and shall provide installations in compliance with all related code requirements.
- D. Layout and Installation: Each Prime Contractor shall schedule, layout and install their Work in such manner as not to delay or interfere with, but to compliment the execution of the work of other Prime Contracts, utility companies and Owner's operations.
- E. Extent of Contract: The Contract Documents, drawings and specifications each contain more specific descriptions of the Work facilitating which Prime Contract includes specific elements of the Project.
 - 1. Work provided by each Prime Contract shall mean complete and operable systems and assemblies, including products, components, accessories and installations required by the Construction Documents or indicated otherwise.
 - 2. Prime Contractors shall exercise good judgment and perform all work according to related industry standards.
 - 3. The Owner is exempt from payment of Federal, State and local taxes, including sales and compensating use taxes on all materials and supplies incorporated in completing the Work; these taxes are not to be included in the Bid. This exemption does not apply to tools, machinery, equipment or other property leased by, or to, the Contractor or sub-contractor, or to supplies and materials, which even though consumed are not incorporated into the completed work. Prime Contractors, and their sub-contractors, shall be responsible for paying any and all applicable taxes on said tools, machinery, equipment or property, and upon all said unincorporated supplies and materials, whether purchased or leased.
 - 4. Prime Contracts shall understand that time is of the essence, and will adequately staff the Project by employing the appropriate trade's people to perform the Work; these people shall be experienced in their respective trades. A shortage of labor in the industry shall not be accepted as an excuse for not properly staffing the Project; all

- efforts shall be made to meet or exceed the schedule, including additional staff and/or labor hours necessary. All cost associated with this item shall be included within the Bid.
5. Local custom and trade union jurisdictional settlements will not control the scope of the Work of each Prime Contract.
 - a. When a potential jurisdictional dispute or similar interruption of Work is first identified, or threatened, the affected Prime Contracts shall promptly negotiate a reasonable settlement to avoid or minimize the pending interruption and delays.
 - b. Contractor's trade-related issues shall not be grounds for modification or extension of scheduled completion date(s).
 6. The Work of all Prime Contracts requires close coordination with other Prime Contracts and construction personnel. Maintain flexibility and cooperation through the Project. "Out of Sequence" and "Delay" claims will only be considered when requirements of Division 01 "Administrative Requirements" have been adhered to. Delay claims must be in writing and forwarded to the Architect, per the requirements of the General Conditions of the Contract. Claims not submitted per these requirements will be rejected and/or denied.
 7. The intention of the Work is to follow a logical sequence, however, a Prime Contractor may be required by the Architect or Construction Manager, to temporarily install, omit or leave out a section(s) of Work, out of sequence. All such out of sequence work, and come back time, at these areas shall be performed at no additional cost to the Owner.
- F. Substitutions: Per Division 01 Section "Substitution Procedures", each Prime Contractor shall cooperate with the other Prime Contractors involved, to coordinate approved substitutions with remainder of the Work. Contractors shall submit all "Substitutions" at least ten (10) days prior to the date for receipt of Bids as specified in the Instructions to Bidders 002113 Section 3.3 Equivalents or bid will be considered per "basis of design".
- G. Construction Schedules: Refer to Divisions 01 Section "Construction Progress Documentation", "Preliminary Schedule" and "Project Management and Coordination" for requirements related to meetings and schedules.
- H. Construction Sequencing and Phasing: Prime Contractor shall understand that Sequencing and/or Phasing Plans are contingent upon the work areas being complete/occupied, prior to the next area of Work beginning. Should an area of construction not be complete per the Project Preliminary Schedule, the Project Master Construction Schedule/Sequencing Plans will be adjusted accordingly. The Owner will not be responsible for delay claims due to adjustments being no fault of their own.

1. Prime Contracts may be required to re-sequence the phasing of the project as a result of changes to the schedule. Prime Contracts shall provide these adjustments at no additional cost to the Owner.
- I. Testing and Inspections by Owner: The Owner shall employ an independent qualified testing and inspection agency for monitoring on-site soils analysis (excluding top soil analysis), soils compaction, cast-in-place concrete, asbestos and lead abatement monitoring and Special Inspections indicated in the Construction Documents (refer to Division 01 "Quality Requirements" and/or Statement of Special Inspections" for additional specific information)
1. Prime Contractor shall give one week notice as to commencement for these requirements. Once underway, Prime Contractor shall coordinate with the Construction Manager and give 48 hours' notice as to test(s) required, by Owner's Agency, and further verify the need 24 hours in advance. Full cooperation and coordination is expected of all Contractors and their personnel with the Owner's Testing Agency in fulfilling test requirements; provide all data and materials requested for required reports.
 2. Other than with regard to compliance with state and federal laws, the testing agency holds no execution authority other than to provide test results. Should testing indicate a discrepancy or non-compliance during execution of the Work, the Testing and Inspection Agent shall promptly notify the Construction Manager and Project Superintendent of such; however, the Prime Contract shall bear full responsibility for making any decision with regard to proceeding with, or stopping, the Work.
 3. This assignment of Testing and Inspection responsibilities shall take precedence over any respective responsibilities that are indicated otherwise in the Construction Documents.
- J. Testing by Others: All testing requirements not listed in preceding "Testing & Inspections by Owner" or otherwise identified in Division 01 "Quality Requirements" and/or "Statement of Special Inspections" shall be the responsibility of the Prime Contract providing the respective Work as indicated in the Construction Documents.
1. The respective Prime Contract shall have performed testing requirements indicated in individual Specification Sections which may inadvertently indicate "Owner to provide," which are not identified in preceding paragraph "Testing & Inspections by Owner".
 2. Prime Contractor shall submit their Testing Agency qualifications to the Architect for approval prior to any test being performed. Construction Manager shall be given 48 hours' notice of any test/inspections to be performed by Prime Contractor's Testing

- Agency. 24- hour notification shall be given to the Construction Manager for test/inspections requiring his/her presence; 72-hour notification shall be given to the Architect for test/inspections requiring his/her presence.
3. Determinations required of the Architect shall be anticipated by the Prime Contractor to allow ample time for inspection, investigation and reporting.
 4. Prime Contractor shall secure a UFPO clearance prior to start of any UG installation work; coordinate with and advise Construction Manager.
- K. Existing Conditions: Each Prime Contract shall verify existing conditions in the field prior to work commencing in that area and immediately report conditions to the Architect that are not represented correctly by the Construction Documents.
1. Each Prime Contract is responsible for familiarizing himself with Project Site Logistics and provide a "site logistics plan locating storage area, scaffolds, rubbish areas, stock piles and egress related to all work, included phased construction within 30 days of award.
 2. Each Prime Contract has been given ample opportunity to review Existing Conditions related to the Project. Existing Conditions not noted in the Construction Documents that could be easily recognized during pre-bid review that interfere with the respective Prime Contract's work, shall be the responsibility of the respective Prime Contract. This includes all costs associated with removal, patching, relocation or re-fabrication of installations.
- L. Hazardous Materials: Each Prime Contract shall familiarize themselves with the Hazardous Materials Sections/Drawings of the Construction Documents and follow DOL/OSHA/EPA/SED regulations while performing their respective Work in these areas. Discovery of non-identified or concealed hazardous materials shall be reported to the Construction Manager immediately and followed up with written documentation of the event.
- M. Protection of Installations: Each Prime Contract is responsible for protecting their installations at all times. All costs incurred to repair, replace or clean insufficiently protected materials/installations shall be the responsibility of the installing Prime Contract.
1. Architect shall be notified, in writing, immediately upon material/installation being damaged; notification shall indicate responsible party.
 2. Owner will not be liable for damaged materials and/or installations by "others", when "others" cannot be identified.
 3. Repair damaged work, clean exposed surfaces or replace construction installations that cannot be repaired.

4. Each Prime Contract shall be responsible for removing all labels not required to remain from their installations.
 5. Installations shall be wiped clean and proper protection then installed.
 6. Each Prime Contract is responsible to protect another primes work in the event that prime has to work over or on top of that other primes work being complete. The prime working over the completed work takes full responsibility of that other primes completed work both in condition and operation.
- N. Daily Cleaning: All Prime Contracts are responsible for any and all debris caused by their Work, including the Work of their subcontractors. A daily clean up and disposal is required by each Prime Contract for the periods which that Prime Contract, or its subcontractors, are performing Work on site.
1. Assign at least one person for a daily clean and sweep of the work area(s). Prime Contractor shall allot sufficient manpower and time for this to be completed by the end of each shift. Submit name of this person(s) to Construction Manager.
 - a. Construction Manager shall have the authority to give direction to person(s) on the Project Site identified by the Prime Contract as designated for cleanup tasks. This shall include the safety review/securing of the site-work zone after each shift.
 - b. This person has check that no construction debris was dumped in any district dumpers during this end of shift site review, if found the contractor must remove immediately the next morning to avoid back charges costs of \$1500 per day not removed.
 2. Any Prime Contract not providing personnel for Daily Cleaning will be Back Charged for labor provided by the Owner to complete this task.
 3. Contractor working solely in an area shall be responsible for clean/sweep of that area.
 4. Daily cleaning will not mean any one Prime Contract is responsible for assisting another Prime Contract with removing major quantities of debris created by a particular Prime Contract's Work.
 5. Daily cleaning will be mandated to remove from the building any debris created by day-to-day activities. All Prime shall assist in sweeping shared work areas and shared corridors while working on site. Each Prime shall assist in mopping of shared corridors while working on site or as required by the Owner.
 6. All prime contractors and subcontractors are required to provide sweeping compound for daily cleaning in their respective exterior and interior work areas. Each Prime Contract shall provide a sufficient number of brooms or other necessary tools, for use by their personnel to adequately fulfill their obligations.

7. All prime contractors shall provide and maintain garbage cans/refuse containers with liners for each construction area of their respective contracts as directed by the Construction Manager and shall be responsible for disposing of these materials to a dumpster.
 8. All prime contractors provide the necessary equipment/containers (lull/skip-box) to move daily clean/sweep debris from the building to a dumpster on a daily basis, for each construction area of their respective contracts. Skip-box shall be emptied to a dumpster by 9:00 a.m. the following day.
 9. Cleaning shall be deemed a Safety & Health issue, with Prime Contracts being held accountable for fulfilling their contractual obligations.
- O. Final Cleaning: At Substantial Completion of each area of construction, each Prime Contract shall wipe/vacuum clean all of their respective installations; All interior contracts performing work inside the buildings shall mop clean all building surrounding areas and finish flooring and remove all marks/blemishes to the finish, for each construction area of their respective contracts. Each area of construction shall be wiped clean of all construction dust and debris prior to turnover to the Owner.
- P. Cutting and Patching: All Primes are responsible for cutting and patching required to complete their Work. All repair of existing finish Work (including finish floors) shall be performed by contract requiring work, meeting or exceeding minimum contract requirements for that particular section, specification, or type of work. All concealed openings (piping, ductwork, conduit, etc.) must be repaired to comply with specified wall or deck conditions as well as required fire and sound ratings. All corridor penetrations require fire safing. If contractor elects to install their new work in an existing unrated wall or floor opening, whereas the wall/floor is a fire rated condition, that contractor is responsible to fire rate that opening to match the wall/floor fire rating with new and all other existing wire, piping, ducts etc. Other areas are noted in drawings and specifications.
- 1.8 Project Schedule. The nature of this project is to complete all the work listed as Elevator Addition in the schedule by **the Project Closeout Dates specific to each Prime Contract as listed below**. Each Prime Contractor shall include in their bid proper allowances for foul weather.
- B. Bids Received: 7/11/2023
- C. Notice to Proceed: 8/1/2023

D. Submittals: The following items are to be submitted within 60 business days after Notice to Proceed:

1. Submittal List and Submission Schedule– **15 days after NTP**
2. Field Investigations
3. Shop Drawings
4. Long Lead Items– **30 days after NTP**
5. Schedule of Values and Key Submittal List – **15 days after NTP**

D. Mobilization: 6/28/2024

G. Substantial Completion and Project Closeout:

1. **Electrical Contract 01**

- a. Substantial Completion: August 24, 2024.
- b. Project Closeout: October 31, 2024

1.9 TEMPORARY FACILITIES AND CONTROLS OF PRIME CONTRACTS

A. Conditions of Use: Keep temporary services or conditions clean and neat in appearance. Operate in a safe and efficient manner. Relocate temporary facilities as required as work progresses; do not overload facilities or permit them to interfere with progress. Take necessary fire prevention measures; do not allow hazardous, dangerous, or unsanitary conditions to develop or persist on the Project site.

1. Installation, operation, maintenance, and removal of each temporary service or condition are considered part of the respective Prime Contract's own construction activity, as are costs and use charges associated with each facility.
2. Locate service or condition where they will serve the Project adequately and with minimum interference of the Work, coordinate with the Construction Manager and the other Prime Contracts prior to installation.

B. Temporary Use of Permanent Facilities: Prime Contract, as installer of each permanent service or condition, shall assume responsibility for its operation, maintenance and protection during use as a construction facility prior to the Owner's acceptance, regardless of previously assigned temporary facilities and controls responsibility.

- C. Owner's Facilities: Contractors are not allowed to use the Owner's facilities (toilets, telephones, food service, etc.) for their own benefit or convenience. Prime Contract Superintendents shall enforce this policy with their respective work forces.
1. Construction personnel parking will be restricted to area as directed and agreed to by the Owner, and to facilitate the completion of the work. Owner reserves the right to remove from their property, unauthorized vehicles occupying unauthorized areas, at respective vehicle owner's expense.
- D. Storage on the Project Site: Each Prime Contract shall provide sufficient secure weathertight storage facilities for their materials and equipment. These storage containers are required to be located on the "site logistics plan." The Owner's facilities and the Project's building areas shall not be used for storage unless agreed upon, in writing, with the Owner via the Construction Manager.
1. Until permanently incorporated into the Work, all materials on the Project site are considered to be the Prime Contract's responsibility for security and protection.
 2. Prime contractor is required to check on their onsite stored material periodically to ensure that all material continues to be located in the stored location and that it remains protected from all damage, theft, and endangerment to others and ready to be used on notice for coordination with other contractors. Failure to arrange for materials to be on site to complete coordinated work with other Prime Contractors will result in back charges for delays resulting therefrom.
 3. Temporary long-term storage facilities are not available to Prime Contracts by the Owner.
 4. Prime Contractors and their subcontractors, shall coordinate deliveries with the Construction Manager to ensure that disruptions and Owner inconvenience are avoided.
- E. Tools and Equipment: Each Prime Contractor shall provide all tools and equipment necessary for its own activities; this includes secure lock-up and storage for all items on the Project Site.
1. Provide all construction aids and miscellaneous services and facilities necessary exclusively for its own construction activities; this shall include any additional supplementary power, ventilation, lighting requirements and weather protection.
- F. Project Site Communication: Each Prime Contractor shall provide their Project a full time on site at all times Superintendent with a mobile phone for the duration of the Project, as indicated in their Scope of Work. Construction Manager shall be furnished with contact numbers associated with each phone.

- G. Safety: Prime Contracts, not the Architect or Construction Manager, are responsible for Project Site Safety, as related to their operations (refer to Section 013150 "Special Procedures" for further requirements).
1. Each Prime Contract shall correct safety hazards and violations immediately. If safety issues are not immediately rectified, the Owner shall secure outside sources to correct the deficiency and back charge the responsible Prime Contract.
 2. Maintain unobstructed access/egress to fire extinguishers, fire hydrants, stairways, corridors, ladders and other safety routes/devices.
- H. Fire Extinguishers: All Prime Contracts provide and maintain "general use" fire extinguishers for each construction area of their respective contracts; comply with applicable codes for quantities required. Use of the Owner's fire extinguishers to meet this requirement is not permitted. Comply with NFPA for recommended classes for exposure; extinguishers shall be inspected and appropriately tagged prior to being brought on site. Provide stands, painted bright orange, sturdy enough to carry the extinguisher, and built as not to create a tipping hazard.
1. Each Prime Contract shall supplement this requirement by providing additional fire extinguishers specifically related to their work activity (e.g., welding, soldering, abrasive cutting, etc.).
 2. Each Prime Contract shall provide and maintain proper fire extinguishers at/in their respective on site office and storage facilities.
 3. Store combustible materials in approved containers in fire-safe locations.
- I. Welding: Any Prime Contract performing welding, cutting or other activities with open flames or producing sparks shall at a minimum:
1. Coordinate interruption/shutdown of detection system(s) to avoid creating false alarms.
 2. Protect the area and surrounding areas from fire and damage.
 3. Maintain fire extinguishers, compatible with activity, at the location of the activity.
 4. Provide a continuous Fire Watch during the activity and one-half hour beyond the completion of the activity.
 5. Provide all necessary fans and ventilation required for the activity.
 6. Any welding, burning and or use of flame the contractor is required to provide all required "hot work permit" to use such equipment prior to start of work. Its mandatory that no "hot work" shall start without these permits issued to the CM and Owner. Failure to this requirement will result to the removal of the project super of that company from all district projects.

- J. Temporary Power: Each Prime Contractor shall provide for their own temporary power needs for any scheduled electrical utility shut downs.
- K. Each Prime Contractor shall provide for their own temporary generators, power cords and temporary lighting as needed during these periods to continue to perform their work and maintain adherence to the Preliminary Schedule and approved Project Master Schedules. All temporary power equipment shall comply with all applicable codes and regulations.
- N. Waste Disposal Facilities:
1. General debris/refuse/construction waste containers (dumpsters) shall be provided by each prime contractor and secured as specified herein this contract.
 2. It shall be the responsibility/requirement of each Prime Contract to bring their waste to the dumpsters, including but not limited to all equipment, demolition debris, discarded materials with further identification including the following; construction and demolition debris refers to discarded materials generally considered non-hazardous in nature, including but not limited to steel, glass, brick, concrete, asphalt material, pipe, gypsum wallboard, and lumber, from the construction or destruction of a structure as part of a construction or demolition project or from the renovation of a structure, including such debris from construction of structures at a site remote from the construction or demolition project site.
 3. It shall be the responsibility and requirement of each Prime Contract to recycle metals generated by its Work, and the Work of its subcontracts.
 4. Joint-effort recycling by all Prime Contracts is encouraged.
- O. Temporary Sanitary Facilities: Provide temporary self-contained toilets units for duration of the project.
1. Temporary Sanitary Facilities:
 - a. Each prime contractor is required to provide their own Temporary Sanitary Facilities and secured behind fencing and/or locked after work hours and weekends.
 2. Comply with regulations and health codes for type, number, location, operation, and maintenance of fixtures and facilities.
 3. Provide separate facilities (minimum of one ea.) for male and female personnel in proportion required by OSHA.
 4. Shield toilets to ensure privacy.
 5. Coordinate mobilization and demobilization of units with Construction Manager.
 6. Toilets shall be cleaned at least once per week, with additional facilities or cleanings provided if requested by Construction Manager.
 7. Provide and maintain adequate supply of toilet tissue and hand sanitizer for each facility.

1.10 WORK HOURS & SEQUENCE

- A. EC-01 Contract is permitted to work during the school day on non-disruptive work. Sawcutting, jackhammering, power shutdowns, or work that may affect emergency egress must be performed second shift or weekends. The contractor is responsible to factor this into their bids.
- B. Unless otherwise approved by the Construction Manager, During the school days, Work is to be performed in this contract during the hours of 3:30pm to 10:00pm on weekdays, and Saturdays and Sundays from 7:00am to 3:30pm. During School breaks, work is to be performed from 7:00am to 10:00pm. There is no additional cost to the owner for working the hours of 3:30pm through 10:00pm, or weekend work during the school year. Any work done during these times **MUST BE COMPLETED, CLEANED, AND TESTED AS NECESSARY FOR STUDENT OCCUPANCY BEFORE THE START OF THE NEXT SCHOOL DAY.** Contractors are required to schedule work during school breaks, school days off, and school holidays. **NOTE: Security vestibule workings hours are to be 7:00AM – 4:00PM. There will be black-out periods for testing where work cannot commence. The contractor is expected to request these dates from the CM and integrate into their milestone schedule.**
- C. Summer work starts June 28th through August 23rd for 2024. The Summer working hours are from 7:00am to 9:30pm. There is no additional cost to the owner for working the hours of 3:30pm through 9:30pm or on weekends and holidays during the Summer.
- D. Contractors are required to start working on site within 30 days of execution of contract, to the extent permitted by contract. Contractors are required to coordinate and perform work simultaneously with other Contractors. Contractors are required to complete their contract work by the designated Substantial Completion and Final Completion end dates as indicated on the Invitation to Bid.
- E. Mandatory clean up periods - From August 24th, 2024 to August 31st, 2024 and August 30th, 2024 to September 6th, 2024, contractors shall clean up all interior and exterior areas.
- F. Contractors are required per contract to fully staff the project during the work shifts stated above with the required manpower to complete their work within the allowed scheduled time frame. Contractors are required to provide a 72-hour advanced request to the Owner via the Construction Manager for any Saturday and Sunday work. If a project schedule delay has been caused by the fault of the contractor, the contractor is required to provide 3rd shift work from 9pm to 6am to make up the project schedule.

All costs for CM, Architect and district personal related to this 3rd shift request will be charged to the contractor at a combined rate for all at \$3,000 per 8hr shift.

- G. The shifts noted above are not considered overtime or premium time hours.
- H. Contract summaries will provide start and end dates for each contractor.
- I. Additional requirements:
 - 1. Multiple Crews: Each Prime Contract shall provide multiple crews, supervision, cranes, scaffold and other means necessary to perform the Work, and maintain the Project Master Schedules.
 - 2. Interruption of any utility and/or power must be coordinated with the Owner, via the Construction Manager.
 - 3. Any and all -3rd shift, overtime, weekend and/or holiday work required to meet the Project Master Schedules shall be incorporated in the respective Prime Contract's bid.
 - 4. Should a Contractor's progress fall behind, as to schedule, Prime Contractor shall employ additional – 3rd shift and/or overtime and/or weekend workforce until situation is rectified, to the satisfaction of the Architect and Construction Manager, at no additional cost to the Owner, however subject to charges as stated in section 1.8 C for lack of maintaining schedule
 - 5. Should a Prime Contract feel another Prime Contract is delaying them sufficient time to complete their installations, per the schedule, the Architect and Construction Manager shall be notified in writing immediately of the situation (refer to Conditions of the Contract for protocol). A Prime Contract creating such a delay, that causes a proven burden upon another Prime Contract to maintain schedule, shall bear all costs incurred by the delayed Prime Contract to maintain the schedule.
 - 6. The Architect and Construction Manager shall not be overburdened as to overtime cost, to monitor the work, due to no cause of his or her own. Owner will compensate the Architect and Construction Manager for all additional cost related to the issue of a Prime Contractor's failing to execute the Contract by fully staffing per the work hours and days noted herein. The Owner reserves the right to back charge the responsible Prime Contract for these fees if incurred.
 - 7. All Asbestos and/or Lead Abatement shall take place to meet the requirements of the Preliminary Schedule and Project Master Schedules and shall be coordinated with the other Prime Contractors prior to commencement.
- J. The Work shall be conducted to provide the least possible interference to the activities of the Owner's personnel and the surrounding property owners (neighbors).

1. Prime Contracts are hereby notified that: All Prime Contractors and their subcontractors shall limit excessive noise during 2nd shift known as work extending to 10PM weekdays upon approval by owner and city work hour restrictions. These operations shall not create a disturbance to neighboring properties.
- K. Construction access to the site shall be limited to personnel, equipment and deliveries by suppliers relative to the Work of Prime Contractors and their subcontractors. Prime Contracts shall keep the Construction Manager advised of persons accessing the site and shall seek assistance with coordinating parking and storage facility locations for all Prime Contracts.
1. Where applicable, Contractors shall provide Building Site perimeter barricades as described herein the project and all temporary exit doors/lockable gates on the Project, securing these doors, fencing and/or gates at the end of each work shift.
 2. When a Prime Contract engages in overtime, weekend or 2nd shift work, during the summer months and or during the normal school year, the respective Prime Contract shall notify Construction Manager of such and be responsible for securing the Project Site at the end of that work shift and perform site walk around the outside of construction area/work zone ensuring all debris is pickup up and there are no construction related hazards of any kind present once the responsible person leaves the site for the evening or weekend. This includes that all materials and equipment are fenced in and keys are removed. All interior projects have the same requirement to ensure that outside the work zone is clean from dust-dirt and that no materials are left outside the work area at any time.
 3. All electrical disconnected and reconnects for roof top equipment is by EC-01. EC-01 shall review "M" drawings to coordinate this work.
 4. All "lay in" electrical fixtures installed in ACT grid shall be independently hung by EC-01.
 5. Required Access doors are to be furnished by EC-01 and installed by GC-01. EC-01 to coordinate location and quantity with GC as to not hinder GC work.
 6. Any existing ceiling removal/replacement necessary to install new electrical work to be done by Electrical Contract #1 (e.g. – new conduits for feeders through existing ceilings, etc.).
 7. Any wood blocking or panel backboards for electrical items by EC Contract #1.

8. EC 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. (power, fire alarm, PA, etc.
9. In areas where the GC is removing existing ceilings, the EC will remove any ceiling mounted electrical items, light fixtures, FA devices, Speakers, WAP, exit signs, cameras, etc. EC to reinstall after new ceilings are completed.
10. After GC ceiling removals for areas scheduled to receive new acoustic grid/tile, the EC will properly tie up any sagging wires at 6' o.c. to be supported above the ceiling grid in accordance with code. EC is to verify with GC before proceeding with any ceiling-mounted fixture installations.
11. All Fire Alarm connections, smoke detectors, Carbon monoxide detectors, duct detectors, etc. are provided by EC.
12. **Duct detectors are provided by the EC, installed in the duct by MC, and wired by EC. EC is to review E & M drawings for locations and quantities. Consult division 28 in the project specifications.**
13. All Mag Holds are provided and mounted by the GC. EC is to run power and FA wiring for all mag holds. Review the A drawings for new doors requiring mag holds.
14. EC is responsible for any trenching and patching associated with their work. Trenches within concrete slabs require type 2 backfill, vapor barrier, and #4 rebar dowels at 16" O.C. epoxy into existing slab. See Div 03 for concrete infill PSI strength.
15. No work may be performed to live panels or connections of live fixtures. The EC is to locate existing main panels and associated circuits and perform lockout tagout procedures to de-energize the sub panel or fixture to which work is being performed.

1.11 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.12 DRAWINGS AND SPECIFICATIONS

- A. Construction Documents indicate the sum total of the Contract that make up the complete work for the Project. Through this Section "Summary of Work", the intent of the Contractor's scope of Work and responsibility is generally described. Related requirements and conditions that are indicated in the Contract Documents include but are not limited to the following:
1. General Conditions and Requirements.
 2. Referenced and applicable Codes, Regulations and Standards.
 3. Scheduling and phasing requirements.
 4. Existing conditions and restrictions on use of the site and facilities.
- B. Drawings and Specifications are cooperative and supplementary. Portions of the Work, which can best be illustrated by Drawings, are not included in the Specifications and portions best described by Specifications are not depicted on Drawings.
1. All items necessary to complete the work shall be furnished whether written or illustrated.
 2. All primes shall exercise good judgment and perform all work according to related industry standards.

PART 2 - SCOPE OF WORK

2.1 PRIME CONTRACTS

- A. Scope of Work: Work includes but is not limited to, the following:
1. Provide all work identified in the Contract Documents.
 2. Applicable Specification Sections: All specification Sections itemized below are to be provided complete by this Prime Contract, unless noted otherwise. In addition to these specifications, the contractor is required to review all specifications included in the overall contract that may contain related scope or detail for this specific contract.
 2. Divisions 00 and 01 – Procurement and Contracting Requirements & General Requirements.
 3. Division 02- Existing Conditions
 4. Division 03 – Concrete
 5. Division 10 – Specialties
 6. Division 26 – Electrical

7. Division 27 – Communications

3. Applicable Drawings : All drawings itemized below are to be provided complete by this Prime Contract, unless noted otherwise. In addition to these drawings, the contractor is required to review all drawings included in the overall contract that may contain related scope or detail for this specific contract.
4. All "HS-E Drawings"
5. All "MS-E Drawings"
6. MS-ASB-1 – Lower Level Abatement in relation to switchgear only.
7. EC-01 Shall review all HS & MS "M" drawing for locations and quantities of duct detectors.
8. BM-A105 (EC01 shall provide concrete pad for transformer and all fencing/gate indicated on this drawing), BM-A500

PART 3 - EXECUTION

3.1 WORK SEQUENCE

- A. The Work shall be conducted to provide the least possible interference to the activities of the Owner's personnel, per the Project Preliminary Schedule.
- B. Work required during overtime, extended shifts or holidays due to failure of contractor to maintain schedule, will be monitored by Architect/Construction Site representative, and may be monitored by Owners' personnel. Additional costs for Architect/Construction Site Representative and/or Owner personnel will be borne by the Contractor.
- C. Coordination of any utility and power interruption must be done with approval of the Architect/Construction Site Representative. Shutdowns must occur during non-occupied timeframes only.
- D. Construction access to the site shall be limited to those designated for personnel, equipment and deliveries by the Owner. All contractor staging, parking and storage shall be coordinated with the Construction Site Representative and subject to change.
- E. Payments: Each bid that covers more than one school (i.e. one SED project) shall provide completed AIA G732 & G703 by building (for each SED project).

- F. No work shall be installed without approved shop drawings. Any work in place without approved shop drawings will be rejected and removed by that contractor at their expense and backed charge all other costs related to.
- G. Any work deemed by CM, Architect and District not properly installed by a contractor per the contract drawings and specifications shall be removed immediately and corrected, with all associated costs to be borne solely by that contractor.
- H. All prime contractors shall coordinate their contract work with other primes to meet the project schedule and for a complete operational system or area or work.
- I. All contractors are to provide within 3 weeks of award a "base line" construction schedule for their work from commencement to completion including all phasing. This schedule is to be updated monthly to show percentage progress of each item listed. This schedule shall be revised to provide a recovery schedule in the event of a delay for any reason. The recovery schedule shall include the "base line" item and the recovery to show how the delay is affecting the overall project schedule. This schedule is to be provided in MS Project or Primavera. Excel schedules are not accepted.
- J. Prime contractor "base line" schedules are to be reviewed by each prime contractor and coordinated where work is related and that each prime's work shall be included in each "base line" contractor's schedule as necessary for coordination.
- K. All contractors are to provide 2-week look ahead schedules showing work related to the base line and shall be coordinated with other prime 2-week look ahead schedules. These schedules will be Excel format. Format will be provided by the CM.
- L. Contractors to provide a full-time supervisor on site 100% of the time. This is not a working foreman. Supervisors are not working with tools they are supervising their workers and coordinating with other contractors and district/ CM. Failure to provide will be default of your contract and subject costs related to and termination.
- M. All prime contractors are the provide a project manpower structure showing names and telephone numbers of each responsible person on the project. This shall be updated as needed if personal changes are made.
- N. All site equipment and dumpsters are to be behind temporary chain link fence when stored on site and or within the construction work zone where temporary chain link fence has been providing and installed by the prime. Each prime contractor is responsible to provide and install temporary chain link fence around their own stored equipment and dumpsters on site.
- O. No equipment, panels or any services shall be turned off for any reason without written request and approval by the district. Project form shall be used for all shutdowns and required a 3-day notice. Other shutdowns may require more time.

3.2 CONTRACT ELECTRICAL WORK (EC-01) – ELECTRICAL PRIME CONTRACT AT NANUET HIGH SCHOOL & BARR MIDDLE SCHOOL – CLASSROOM RENOVATIONS, SWITCHGEAR REPLACEMENTS, ELEVATOR REPLACEMENT, INCLUDING LIGHTING, POWER, AND DATA WORK.

- C. Project Site Superintendent: EC shall provide one (1) full time Project Site Superintendent while any work related to this Contract is being performed on site. Superintendent may be a working Foreman as long as the daily requirements of this Contract are maintained, as they relate to the Construction Documents and the Project Schedule. Construction Manager reserves the right, in their opinion, to revoke this privilege if these requirements are not maintained. Superintendent shall work closely with the Construction Manager, and the other Prime Contract Superintendent(s), in a manner that best promotes the Master Construction Schedule and the objectives of the Project.
1. Superintendent shall be on site while Prime Contractor's own forces, and/or their sub-contractors' forces, are on site; also, while other Prime Contracts are installing work, or require coordination of work, related to this Prime Contract, and/or as requested by the Construction Manager.
 2. Superintendent shall be the same individual throughout the Project.
 3. Refer to Section 01 31 00 "Project Management and Coordination" for further requirements.
- D. Project Foreman: EC shall provide at least one (1) full time Project Foreman during each shift of work for each school; Foreman shall be able to make binding decisions, as they relate to the daily activities of their crew as related to achieving the goals of the Project.
- E. Site Communications: EC shall provide Project Superintendent with a mobile phone, all costs and service charges paid for by EC; provide Construction Manager with contact number(s).
- F. Project Site Field Office: Provide site office facilities for this Contract's Project Superintendent. Site Office shall be equipped with telephone w/answering machine, fax, and e-mail. Contact information shall be provided to the Construction Manager.
1. The Owner reserves the right to seek reimbursement for temporary facilities not provided by this Prime Contract.
- G. Scope of Work: In addition to Divisions 26, 27 and 28, Work of the EC includes but is not limited to, the following:

1. Coordination with other Prime Contracts, Owner and Construction Manager as required to adhere to and maintain approved Project Master Schedules. Prior to first payment, this includes submitting the Contractor's Construction Schedule to Construction Manager of the Project Master Schedule.
2. Electrical scope is identified on the Contract Documents for removal, installation and replacement of all electrical interior and exterior components shown on the Contract Documents for all schools. Including but not limited to coordination and installation of conduits and panels. Provide all removals of existing Electrical Devices, Fixtures & Systems indicated, or required, for Work of this Prime Contract.
 - a. Coordinate all removals with Hazardous Materials documents.
3. **This contract includes furnishing access doors for walls and ceiling as required, which may include fire rated conditions, and coordinate with General Contractor (GC) for installation. EC shall provide Access Door for GC to install.**
4. **All duct Detectors are provided by EC contract and Installed by MC contract. All FA Control and power wiring for duct detectors are provided by EC contract. EC is to refer to the HVAC schematic diagrams for quantity of duct detectors to be furnished.**
5. **EC is to review HVAC drawings and provide power to all Fire Smoke dampers as indicted on the drawings.**
6. Provide all reinstallation of existing Electrical Devices, Fixtures & Systems, replacement or new Electrical Devices, Fixtures & Systems associated the classrooms.
7. EC shall conform to phasing and sequencing of renovations. See Preliminary Schedule for all work as shown on the phasing plans.
8. The Electrical Contractor shall review the Contract Documents in its entirety for complete electrical scope of work in this contract.
 - a. EC shall install work in accordance with the National Electrical Code requirements. No additional compensation will be made for extra offsets in conduit or retro-fit work due to improper component location, or lack of Prime Contractor's coordination.
9. Prime Contract shall understand that renovation work may require work to proceed while existing systems are required to be maintained; all cost associated with this sequence shall be anticipated, and incorporated into the Bid.
10. Prime Contractor shall read and familiarized themselves with the Lead Sections of the Construction Documents. Lead-based paint has been identified to exist on specific areas/surfaces of the work located within the building(s), and when encountered the Prime Contractor shall follow all applicable regulations while working with this material.
11. Prime Contractor shall read and familiarized themselves with the Asbestos Sections of the Construction Documents. Asbestos Containing Material is scheduled to be abated throughout specific areas of the building(s). Should ACM be encountered

- (after Abatement is completed), that may interfere with an installation; Prime Contractor shall cease work, and notify Construction Manager immediately.
- a. Penetrations not coordinated with GC, prior to abatement of these spaces, shall become the responsibility of the respective Prime Contract requiring the penetration.
12. EC shall provide all Work associated with creating structural openings or penetrations requiring lintels whether for their own work (i.e. conduit penetrations). This applies to all openings/penetrations greater than 5-inches through masonry or concrete walls.
- a. Non-structural openings/penetrations, including those for convenience, shall be self-provided by the EC.
 - b. This assignment applies to new and existing construction areas.
 - c. Refer to Structural documents for lintel type/size requirements and Architectural drawings for wall types. Walls not specifically identified in the documents are to be assumed as masonry construction.
 - d. All openings/penetrations are to be identified on Record Drawings by the Prime Contract requiring the opening.
13. Provide cut and patch work related to that of this Prime Contract, related to that of their Prime Contract, and at those areas specifically identified on the Construction Documents, regardless of trade creating the area to be patched.
- a. Each Prime Contract is responsible for all other respective Cutting & Patching required of their installations (refer to Section 017329 for further information).
14. Provide complete electrical requirements, materials and methods including, but not limited to:
- a. Service and distribution including bus-way, switchgear, panel boards, and disconnect switches.
 - b. Provide grounding protection for all circuits and outlets and as required by applicable codes and authorities having jurisdiction. Properly ground building equipment provided by this project.
 - c. Coordinate any electrical switchover as to least impact the Project Schedule. This scope is considered "critical path" and is required to be addressed submitted and shop drawing submitted within 2 weeks upon BoE approval.
 - d. Provide all power, controls, and standby generator requirements for temporary power that might be required during the renovation upgrade for all other prime contractors working during the shutdown.
 - e. Immediately after installation, provide and maintain temporary ID of all circuit breakers and at all shut offs/disconnects until permanent ID is in place.
 - f. Exterior lighting and lighting control equipment; provide occupancy sensors and/or timing devices as indicated.

- g. Provide raceways, boxes, cabinets and sleeves through existing and new construction as part of the complete electrical installation.
 - h. Provide wire, cable, conduit, boxes, and wiring devices as part of the complete electrical installation.
 - i. Provide permanent electrical identification.
Provide type written panel board schedules.
Clearly label all panel boards, disconnects, relays, junction boxes, and other electrical devices and equipment.
15. Final connections of utilities are by EC unless noted or assigned otherwise.
16. Final connection of installations or equipment that are provided by others.
 - a. Provide final connections to all scheduled equipment furnished by the Owner.
17. Provide Fire Alarm system as indicated in the Construction Documents.
 - a. EC shall provide Fire Alarm and/ or coordinate as indicated on drawings.
18. Coordinate with Owner and provide confirmation to Construction Manager of low voltage systems, including but not limited to telephone, building access, security, PA/intercom, data and CCTV systems, as indicated in the Construction Documents.
 - a. EC shall confirm full operational status of existing low voltage systems following reinstallation of existing devices. Replace and commission all devices and components damaged by construction work.
 - b. Provide all components, and their installations required for a complete system.
 - c. Provide, terminate, test, and label all point-to-point field wiring.
 - d. Provide all associated power circuits and requirements that support these systems, including but not limited to, final connections.
19. Provide sleeves required for piping penetrating walls, slabs and/or decks.
20. Provide through-penetration fire stop systems at all penetrations made by EC. Maintain listed ratings of indicated assemblies. Provide repair of existing through-penetration fire stopping damaged by work of this Prime Contract.
 - a. Sleeves with fire stopping are to be installed in sequence with fire-rated construction. This Prime Contract shall be responsible for installing fire stopping material at intersection of sleeve and constructed materials.
21. Provide all testing and adjusting, instruction and guarantees for materials and equipment of this Prime Contract. Refer to Division 00 Section "Project Forms" for applicable documents.
 - a. Substantial Completion: Clean all light fixtures and electrical equipment at the time of installation or at Substantial Completion, whichever is later, or as directed by Construction Manager.
22. Coordinate all the preceding requirements, accordingly, with all applicable Alternates indicated in Section 012300 "Alternates."

23. Submission of all required closeout documentation and final application for payment no later than -September 30 2022.
 24. **EC-01 is required to work with the districts fire alarm vendor to connect new systems to the existing FA. Contractors pricing shall include all integration into the buildings fire alarm controls. Upon contractor's request, a contact will be provided for coordination.**
- H. Supplemental Temporary Facilities and Controls by the EC include, but are not limited to:
1. Waste Disposal Facilities: Provided by each contractor.
 2. Temporary Interior Barricades: Provide, maintain and eventually remove all temporary barricades per OSHA Regulations, Industry Standards, or as indicated in the Construction Documents. These include, but are not limited to, the following areas:
 - a. Roof openings/penetrations.
 - b. To isolate Abatement areas.
 - c. To isolate renovation areas.
 - d. Floor openings/penetrations, including stairwells.
 - 1) Horizontal Openings: close openings in floors, roof decks, and horizontal surfaces with load bearing, wood and/or steel framed construction per applicable regulations.
 3. Temporary Doors, Frames & Wall Assemblies: Provide, maintain and eventually remove all temporary installations where required per OSHA Regulations, Industry Standards, or as indicated in the Construction Documents. Provide fire rated assemblies as required. Provide exit (panic bar/crash bar) devices at locations of egress. Coordinate locations with Construction Exiting Plan, Sequencing/Phasing Plans, and the Construction Manager. Temporary doors shall be constructed using 1/2' plywood and 2x construction, equipped with hasps, locks, handle and latch mechanism, and spring or counter weight installed to allow door to close after opening. Permanent doors will not be used in temporary conditions.
 4. Temporary Heat: The existing heating system and ventilation system in the building area are not to be used for temporary heat or ventilation in construction areas. The contractor for General Construction must provide temporary heat in construction in construction areas. Provide submittal for temporary heat strategy that states what equipment will be used and where fuel will be stored. Fuel source cannot be located in the building. Heaters with self-contained fuel sources are not allowed to be placed in the building.
 5. Temporary Window Openings: Window openings shall be enclosed using 2x construction, 1/2' plywood, and reinforced polyethylene. Where window opening start at or near the floor, plywood shall be installed from finish floor to minimum of 42" AFF; reinforced poly may be installed from this point up. Should contractor

- choose to install plywood across the entire opening, sufficient area will be installed with reinforced poly to allow emergency escape, if required, and to allow natural light into the work area.
- a. Installation shall be insulated if temporary heat or cooling is being employed.
6. Temporary Exterior Wall Enclosure: Provide and maintain temporary enclosures for weather protection and security of the construction in progress, where needed, up until completion of permanent installation specified. Enclosures shall protect the building from exposure, foul weather, other construction operations, and similar activities. Provide temporary weather tight enclosure for building exterior.
 - a. Where heating and cooling is needed and permanent enclosure is not complete, provide insulated temporary enclosures. Coordinate enclosure with venting and material drying or curing requirements to avoid dangerous conditions and effects.
 - b. Install tarpaulins securely; install fire retardant materials only.
 - c. Where temporary wood enclosures exceed 100 sq. ft. in area, use fire retardant treated materials for framing and sheathing.
 - d. All cost incurred to repair and/or replace materials damaged, due to the failure of EC to provide and maintain weather tight enclosure shall be borne by this Prime Contract. This includes any contamination of materials that may lead to the introduction of mold and mildew.
 - e. Immediately notify the Construction Manager, in writing, as to damage to temporary enclosures by "others"; identify responsible party in the submission. Owner shall not be liable for damages caused by "others" if Prime Contract cannot identify responsible party.
 7. Temporary Sanitary Facilities: Provided by each contractor.
 8. Existing Stair Usage: Use of Owner's existing stairs in unoccupied areas will be permitted, provided that at Substantial Completion, stairs are restored to conditions existing before initial use.
 - a. Provide photo documentation of existing stair conditions prior to use by all Prime Contracts. Document during use, and at completion of the Renovation Project in order to document any and all damage to the Owner's property.
 - b. Provide protective coverings, barriers, devices, signs, or other procedures to protect stairs and to maintain means of egress. If, despite such protection, stairs become damaged, restore damaged areas so no evidence remains of correction work.
 9. Provide all shoring required for Work of this Prime Contract, including but not limited to;
 - a. Cutting or altering of existing construction.
 - b. Provide protection of all new and existing surfaces during the Work. Do not stand, walk, or work off of any unprotected finished surface above the floor.

10. Maintain temporary fencing and barricading to keep unauthorized persons away from hazardous areas for which this Prime Contract is responsible.
11. Traffic Controls: Provide flagman while any operations of this Prime Contract interfere with traffic flow on adjacent roadways.

END OF SECTION 01 12 06

SECTION 01 12 05 –CONTRACT SUMMARY – MC-01

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes a summary of each Prime Contract, including responsibilities for coordination and temporary facilities and controls. One set of Construction Documents is issued covering the Work of multiple Prime Contracts. Each Prime Contract is responsible to review all drawings and specifications for specific requirements indicated, and for a general understanding and knowledge of the work of other Prime Contracts. All Prime Contracts are responsible for all Work of their Contract no matter what drawing on which the Work appears. All Prime Contracts are responsible to coordinate their work related to the complete set of drawings and specifications, not limited to each prime contractor scope. **All Bidders should acknowledge that for each contract listed below, each contractor is their own General Contractor and subject to all General Contractor requirements.**

1. **Mechanical Contract:** The Mechanical Contractor shall be selected based on the bid procedure as described in the Bid Documents. Contract Bidders are responsible for (a) trade work coordination, (b) the scope contained in drawings listed below and (c) any and all additional scope specifically identified to be performed by the Mechanical Contractor in other Bid Packages in the Contract.

2. **MC-01 contract requires the awarded entity to self-perform the largest scope of work shown in the contract documents. There are no provisions within this contract to solely subcontract ALL trade scope required to complete the project and its design intent. All other work in this contract is allowed to be subcontracted other than as stated herein. It is further required to clearly present what scope your own forces will be doing with your bid submission. Failure to present this at time of bid will be subject to disqualification.**

B.

- 1) Work related to drawings: *(In addition to these drawings, the contractor is required to review all specifications included in the overall contract that may contain related scope or detail for this specific contract.)*

Nanuet Senior High School

- a) Hydronic Conversion
- b) BMS Controls Upgrades

Barr Middle School

- c) Air Conditioning Project
- d) BMS Controls Upgrades

1.3 Related Sections include, but are not limited to, the following:

- A. Division 01 Section "Work Restrictions" for use of the Project site and for requirements for continued Owner occupancy of premises.
- B. Division 01 Section "Project Management and Coordination" for general coordination requirements.
- C. Division 01 Section "Project Forms" for documents required for Testing and Coordination.
- D. Division 01 Section "Temporary Facilities and Controls" for specific requirements for temporary facilities and controls

1.4 DEFINITIONS

1.5 MANAGEMENT AND COORDINATION

- A. The Owner shall provide a Construction Manager.
 1. The Construction Manager shall provide a full time construction site representative recognized as the Construction Manager.

1.6 CONSTRUCTION MANAGER

- A. The construction manager shall provide on-site administration of the Contracts for Construction in cooperation with the Architect as set in AIA Document A232™ – 2009, General Conditions of the Contract for Construction, Construction Manager as Adviser Edition, as modified.
- B. The Construction Manager shall provide administrative, management and related services to coordinate scheduled activities and responsibilities of the Multiple Prime Contractors with each other and with those of the Construction Manager, the Owner and the Architect. The Construction Manager shall coordinate the activities of the Multiple Prime Contractors in accordance with the latest approved Project Schedule and the Contract Documents.
- C. Utilizing the construction schedules provided by the Multiple Prime Contractors, the Construction Manager shall update the Project schedule, incorporating the activities of the Owner, Architect, and Multiple Prime Contractors on the Projects, including activity sequences and durations, allocation of labor and materials, processing of Shop Drawings, Product Data and Samples, and delivery and procurement of products, including those that must be ordered will in advance of construction. The Project schedule shall include the Owner's occupancy requirements showing portions of the Project having occupancy priority.
- D. Utilizing information from the Multiple Prime Contractors, the Construction Manager shall schedule and coordinate the sequence of construction and assignment of space in areas where the Multiple Prime Contractors are performing Work, in accordance with the Contract Documents and the latest approved Project Schedule.

1.7 GENERAL REQUIREMENTS OF PRIME CONTRACTS

- A. Prime Contracts: The context used in this Section are separate Prime Contracts that represent significant elements of work that is to be performed concurrently and in close coordination with the work of other Prime Contracts for the benefits of the Owner. Each Prime Contract is recognized to be a major part of the Work.
- B. Assignment of Work: Should a conflict be indicated, Section 011200 shall take precedence over all scope of work assignments that may be indicated elsewhere within the Construction Documents.
- C. Seismic Requirements: Prime Contracts are to be aware that the building(s) is located within a Seismic Zone indicated in the documents and shall provide installations in compliance with all related code requirements.

- D. Layout and Installation: Each Prime Contractor shall schedule, layout and install their Work in such manner as not to delay or interfere with, but to compliment the execution of the work of other Prime Contracts, utility companies and Owner's operations.
- E. Extent of Contract: The Contract Documents, drawings and specifications each contain more specific descriptions of the Work facilitating which Prime Contract includes specific elements of the Project.
1. Work provided by each Prime Contract shall mean complete and operable systems and assemblies, including products, components, accessories and installations required by the Construction Documents or indicated otherwise.
 2. Prime Contractors shall exercise good judgment and perform all work according to related industry standards.
 3. The Owner is exempt from payment of Federal, State and local taxes, including sales and compensating use taxes on all materials and supplies incorporated in completing the Work; these taxes are not to be included in the Bid. This exemption does not apply to tools, machinery, equipment or other property leased by, or to, the Contractor or sub-contractor, or to supplies and materials, which even though consumed are not incorporated into the completed work. Prime Contractors, and their sub-contractors, shall be responsible for paying any and all applicable taxes on said tools, machinery, equipment or property, and upon all said unincorporated supplies and materials, whether purchased or leased.
 4. Prime Contracts shall understand that time is of the essence, and will adequately staff the Project by employing the appropriate trade's people to perform the Work; these people shall be experienced in their respective trades. A shortage of labor in the industry shall not be accepted as an excuse for not properly staffing the Project; all efforts shall be made to meet or exceed the schedule, including additional staff and/or labor hours necessary. All cost associated with this item shall be included within the Bid.
 5. Local custom and trade union jurisdictional settlements will not control the scope of the Work of each Prime Contract.
 - a. When a potential jurisdictional dispute or similar interruption of Work is first identified, or threatened, the affected Prime Contracts shall promptly negotiate a reasonable settlement to avoid or minimize the pending interruption and delays.
 - b. Contractor's trade-related issues shall not be grounds for modification or extension of scheduled completion date(s).
 6. The Work of all Prime Contracts requires close coordination with other Prime Contracts and construction personnel. Maintain flexibility and cooperation through the Project. "Out of Sequence" and "Delay" claims will only be considered when requirements of Division 01 "Administrative Requirements" have been adhered to. Delay claims must be in writing and forwarded to the Architect, per the

- requirements of the General Conditions of the Contract. Claims not submitted per these requirements will be rejected and/or denied.
7. The intention of the Work is to follow a logical sequence, however, a Prime Contractor may be required by the Architect or Construction Manager, to temporarily install, omit or leave out a section(s) of Work, out of sequence. All such out of sequence work, and come back time, at these areas shall be performed at no additional cost to the Owner.
- F. Substitutions: Per Division 01 Section "Substitution Procedures", each Prime Contractor shall cooperate with the other Prime Contractors involved, to coordinate approved substitutions with remainder of the Work. Contractors shall submit all "Substitutions" at least ten (10) days prior to the date for receipt of Bids as specified in the Instructions to Bidders 002113 Section 3.3 Equivalents or bid will be considered per "basis of design".
- G. Construction Schedules: Refer to Divisions 01 Section "Construction Progress Documentation", "Milestone Phasing Schedule" and "Project Management and Coordination" for requirements related to meetings and schedules.
- H. Construction Sequencing and Phasing: Prime Contractor shall understand that Sequencing and/or Phasing Plans are contingent upon the work areas being complete/occupied, prior to the next area of Work beginning. Should an area of construction not be complete per the Project Preliminary Schedule, the Project Master Construction Schedule/Sequencing Plans will be adjusted accordingly. The Owner will not be responsible for delay claims due to adjustments being no fault of their own.
1. Prime Contracts may be required to re-sequence the phasing of the project as a result of changes to the schedule. Prime Contracts shall provide these adjustments at no additional cost to the Owner.
- I. Existing Conditions: Each Prime Contract shall verify existing conditions in the field prior to work commencing in that area and immediately report conditions to the Architect that are not represented correctly by the Construction Documents.
1. Each Prime Contract is responsible for familiarizing himself with Project Site Logistics and provide a "site logistics plan locating storage area, scaffolds, rubbish areas, stock piles and egress related to all work, included phased construction within 30 days of award.
 2. Each Prime Contract has been given ample opportunity to review Existing Conditions related to the Project. Existing Conditions not noted in the Construction Documents that could be easily recognized during pre-bid review that interfere with the respective Prime Contract's work, shall be the responsibility of the respective

Prime Contract. This includes all costs associated with removal, patching, relocation or re-fabrication of installations.

- J. Hazardous Materials: Each Prime Contract shall familiarize themselves with the Hazardous Materials Sections/Drawings of the Construction Documents and follow DOL/OSHA/EPA/SED regulations while performing their respective Work in these areas. Discovery of non-identified or concealed hazardous materials shall be reported to the Construction Manager immediately and followed up with written documentation of the event.
- K. Protection of Installations: Each Prime Contract is responsible for protecting their installations at all times. All costs incurred to repair, replace or clean insufficiently protected materials/installations shall be the responsibility of the installing Prime Contract.
1. Architect shall be notified, in writing, immediately upon material/installation being damaged; notification shall indicate responsible party.
 2. Owner will not be liable for damaged materials and/or installations by "others", when "others" cannot be identified.
 3. Repair damaged work, clean exposed surfaces or replace construction installations that cannot be repaired.
 4. Each Prime Contract shall be responsible for removing all labels not required to remain from their installations.
 5. Installations shall be wiped clean and proper protection then installed.
 6. Each Prime Contract is responsible to protect another primes work in the event that prime has to work over or on top of that other primes work being complete. The prime working over the completed work takes full responsibility of that other primes completed work both in condition and operation.
- L. Daily Cleaning: All Prime Contracts are responsible for any and all debris caused by their Work, including the Work of their subcontractors. A daily clean up and disposal is required by each Prime Contract for the periods which that Prime Contract, or its subcontractors, are performing Work on site.
1. Assign at least one person for a daily clean and sweep of the work area(s). Prime Contractor shall allot sufficient manpower and time for this to be completed by the end of each shift. Submit name of this person(s) to Construction Manager.
 - a. Construction Manager shall have the authority to give direction to person(s) on the Project Site identified by the Prime Contract as designated for cleanup tasks. This shall include the safety review/securing of the site-work zone after each shift.
 - b. This person has check that no construction debris was dumped in any district dumpers during this end of shift site review, if found the contractor must

- remove immediately the next morning to avoid back charges costs of \$1500 per day not removed.
2. Any Prime Contract not providing personnel for Daily Cleaning will be Back Charged for labor provided by the Owner to complete this task.
 3. Contractor working solely in an area shall be responsible for clean/sweep of that area.
 4. Daily cleaning will not mean any one Prime Contract is responsible for assisting another Prime Contract with removing major quantities of debris created by a particular Prime Contract's Work.
 5. Daily cleaning will be mandated to remove from the building any debris created by day-to-day activities. All Prime shall assist in sweeping shared work areas and shared corridors while working on site. Each Prime shall assist in mopping of shared corridors while working on site or as required by the Owner.
 6. All prime contractors and subcontractors are required to provide sweeping compound for daily cleaning in their respective exterior and interior work areas. Each Prime Contract shall provide a sufficient number of brooms or other necessary tools, for use by their personnel to adequately fulfill their obligations.
 7. All prime contractors shall provide and maintain garbage cans/refuse containers with liners for each construction area of their respective contracts as directed by the Construction Manager and shall be responsible for disposing of these materials to a dumpster.
 8. All prime contractors provide the necessary equipment/containers (lull/skip-box) to move daily clean/sweep debris from the building to a dumpster on a daily basis, for each construction area of their respective contracts. Skip-box shall be emptied to a dumpster by 9:00 a.m. the following day.
 9. Cleaning shall be deemed a Safety & Health issue, with Prime Contracts being held accountable for fulfilling their contractual obligations.
- M. Final Cleaning: At Substantial Completion of each area of construction, each Prime Contract shall wipe/vacuum clean all of their respective installations; All interior contracts performing work inside the buildings shall mop clean all building surrounding areas and finish flooring and remove all marks/blemishes to the finish, for each construction area of their respective contracts. Each area of construction shall be wiped clean of all construction dust and debris prior to turnover to the Owner.
- N. Cutting and Patching: All Primes are responsible for cutting and patching required to complete their Work. All repair of existing finish Work (including finish floors) shall be performed by contract requiring work, meeting or exceeding minimum contract requirements for that particular section, specification, or type of work. All concealed openings (piping, ductwork, conduit, etc.) must be repaired to comply with specified wall or deck conditions as well as required fire and sound ratings. All corridor penetrations require fire safing. If contractor elects to install their new work in an existing unrated wall

or floor opening, whereas the wall/floor is a fire rated condition, that contractor is responsible to fire rate that opening to match the wall/floor fire rating with new and all other existing wire, piping, ducts etc. Other areas are noted in drawings and specifications.

1.8 Project Schedule. The nature of this project is to complete all the work listed as Phase 3 in the schedule by **the Project Closeout Dates specific to each Prime Contract as listed below**. Each Prime Contractor shall include in their bid proper allowances for foul weather.

A. Bids Received: 7/11/2023

B. Notice to Proceed: 8/1/2023

C. Submittals: The following items are to be submitted within 60 business days after Notice to Proceed:

1. Submittal List and Submission Schedule - **15 days after NTP**
2. Field Investigations
3. Shop Drawings
4. Long Lead Items – **30 days after NTP**
5. Schedule of Values and Key Submittal List – **15 days after NTP**

D. Mobilization: 6/29/2024

E. Substantial Completion: 9/17/2024

1. **Mechanical Contract 01**

- a. Substantial Completion: September, 17, 2024
- b. Project Closeout: October 31, 2024

1.9 TEMPORARY FACILITIES AND CONTROLS OF PRIME CONTRACTS

A. Conditions of Use: Keep temporary services or conditions clean and neat in appearance. Operate in a safe and efficient manner. Relocate temporary facilities as required as work progresses; do not overload facilities or permit them to interfere with progress. Take necessary fire prevention measures; do not allow hazardous, dangerous, or unsanitary conditions to develop or persist on the Project site.

1. Installation, operation, maintenance, and removal of each temporary service or condition are considered part of the respective Prime Contract's own construction activity, as are costs and use charges associated with each facility.
 2. Locate service or condition where they will serve the Project adequately and with minimum interference of the Work, coordinate with the Construction Manager and the other Prime Contracts prior to installation.
- B. Temporary Use of Permanent Facilities: Prime Contract, as installer of each permanent service or condition, shall assume responsibility for its operation, maintenance and protection during use as a construction facility prior to the Owner's acceptance, regardless of previously assigned temporary facilities and controls responsibility.
- C. Owner's Facilities: Contractors are not allowed to use the Owner's facilities (toilets, telephones, food service, etc.) for their own benefit or convenience. Prime Contract Superintendents shall enforce this policy with their respective work forces.
1. Construction personnel parking will be restricted to area as directed and agreed to by the Owner, and to facilitate the completion of the work. Owner reserves the right to remove from their property, unauthorized vehicles occupying unauthorized areas, at respective vehicle owner's expense.
- D. Storage on the Project Site: Each Prime Contract shall provide sufficient secure weather-tight storage facilities for their materials and equipment. These storage containers are required to be located on the "site logistics plan." The Owner's facilities and the Project's building areas shall not be used for storage unless agreed upon, in writing, with the Owner via the Construction Manager.
1. Until permanently incorporated into the Work, all materials on the Project site are considered to be the Prime Contract's responsibility for security and protection.
 2. Prime contractor is required to check on their onsite stored material periodically to ensure that all material continues to be located in the stored location and that it remains protected from all damage, theft, and endangerment to others and ready to be used on notice for coordination with other contractors. Failure to arrange for materials to be on site to complete coordinated work with other Prime Contractors will result in back charges for delays resulting therefrom.
 3. Temporary long-term storage facilities are not available to Prime Contracts by the Owner.
 4. Prime Contractors and their subcontractors, shall coordinate deliveries with the Construction Manager to ensure that disruptions and Owner inconvenience are avoided.
- E. Tools and Equipment: Each Prime Contractor shall provide all tools and equipment necessary for its own activities; this includes secure lock-up and storage for all items on the Project Site.

1. Provide all construction aids and miscellaneous services and facilities necessary exclusively for its own construction activities; this shall include any additional supplementary power, ventilation, lighting requirements and weather protection.
- F. Project Site Communication: Each Prime Contractor shall provide their Project a full time on site at all times Superintendent with a mobile phone for the duration of the Project, as indicated in their Scope of Work. Construction Manager shall be furnished with contact numbers associated with each phone.
- G. Safety: Prime Contracts, not the Architect or Construction Manager, are responsible for Project Site Safety, as related to their operations (refer to Section 013150 "Special Procedures" for further requirements).
 1. Each Prime Contract shall correct safety hazards and violations immediately. If safety issues are not immediately rectified, the Owner shall secure outside sources to correct the deficiency and back charge the responsible Prime Contract.
 2. Maintain unobstructed access/egress to fire extinguishers, fire hydrants, stairways, corridors, ladders and other safety routes/devices.
- H. Fire Extinguishers: All Prime Contracts provide and maintain "general use" fire extinguishers for each construction area of their respective contracts; comply with applicable codes for quantities required. Use of the Owner's fire extinguishers to meet this requirement is not permitted. Comply with NFPA for recommended classes for exposure; extinguishers shall be inspected and appropriately tagged prior to being brought on site. Provide stands, painted bright orange, sturdy enough to carry the extinguisher, and built as not to create a tipping hazard.
 1. Each Prime Contract shall supplement this requirement by providing additional fire extinguishers specifically related to their work activity (e.g., welding, soldering, abrasive cutting, etc.).
 2. Each Prime Contract shall provide and maintain proper fire extinguishers at/in their respective on site office and storage facilities.
 3. Store combustible materials in approved containers in fire-safe locations.
- I. Welding: Any Prime Contract performing welding, cutting or other activities with open flames or producing sparks shall at a minimum:
 1. Coordinate interruption/shutdown of detection system(s) to avoid creating false alarms.
 2. All burning and or welding (all hot work) is to be done from 3:30pm to 10:00pm when the public is not in the building.
 3. Protect the area and surrounding areas from fire and damage.
 4. Maintain fire extinguishers, compatible with activity, at the location of the activity.
 5. Provide a continuous Fire Watch during the activity and one-half hour beyond the completion of the activity.

6. Provide all necessary fans and ventilation required for the activity.
 7. Any welding, burning and or use of flame the contractor is required to provide all required "hot work permit" to use such equipment prior to start of work. Its mandatory that no "hot work" shall start without these permits issued to the CM and Owner. Failure to this requirement will result to the removal of the project super of that company from all district projects.
- J. Temporary Power: Each Prime Contractor shall provide for their own temporary power needs for any scheduled electrical utility shut downs. Each Prime Contractor shall provide for their own temporary generators, power cords and temporary lighting as needed during these periods to continue to perform their work and maintain adherence to the Preliminary Schedule and approved Project Master Schedules. All temporary power equipment shall comply with all applicable codes and regulations.
1. In all other schools in this phase, known as High School Elevator Addition, have local electrical work, therefore each prime contractor and their sub-contractors are required to provide their own generator power for equipment and lighting to perform their work during these times with no additional cost to the owner.
- K. Waste Disposal Facilities:
1. General debris/refuse/construction waste containers (dumpsters) shall be provided by each prime contractor and secured as specified herein this contract.
 2. It shall be the responsibility/requirement of each Prime Contract to bring their waste to the dumpsters, including but not limited to all equipment, demolition debris, discarded materials with further identification including the following; construction and demolition debris refers to discarded materials generally considered non-hazardous in nature, including but not limited to steel, glass, brick, concrete, asphalt material, pipe, gypsum wallboard, and lumber, from the construction or destruction of a structure as part of a construction or demolition project or from the renovation of a structure, including such debris from construction of structures at a site remote from the construction or demolition project site.
 3. It shall be the responsibility and requirement of each Prime Contract to recycle metals generated by its Work, and the Work of its subcontracts.
 4. Joint-effort recycling by all Prime Contracts is encouraged.
- L. Temporary Sanitary Facilities: Provide temporary self-contained toilets units for duration of the project.
1. Temporary Sanitary Facilities:
 - a. Each prime contractor is required to provide their own Temporary Sanitary Facilities and secured behind fencing and/or locked after work hours and weekends.

2. Comply with regulations and health codes for type, number, location, operation, and maintenance of fixtures and facilities.
3. Provide separate facilities (minimum of one ea.) for male and female personnel in proportion required by OSHA.
4. Shield toilets to ensure privacy.
5. Coordinate mobilization and demobilization of units with Construction Manager.
6. Toilets shall be cleaned at least once per week, with additional facilities or cleanings provided if requested by Construction Manager.
7. Provide and maintain adequate supply of toilet tissue and hand sanitizer for each facility.

1.10 WORK HOURS & SEQUENCE

- A. During the school days, Work is to be performed in this contract during the hours of 3:30pm to 10:00pm on weekdays, and Saturdays and Sundays from 7:00am to 3:30pm. During School breaks, work is to be performed from 7:00am to 10:00pm. There is no additional cost to the owner for working the hours of 3:30pm through 10:00pm, or weekend work during the school year. **Any work done during these times MUST BE COMPLETED, CLEANED, AND TESTED AS NECESSARY FOR STUDENT OCCUPANCY BEFORE THE START OF THE NEXT SCHOOL DAY.** Contractors are required to schedule work during school breaks, school days off, and school holidays.
- B. Summer work starts June 28th through August 23rd for 2024. The Summer working hours are from 7:00am to 9:30pm. There is no additional cost to the owner for working the hours of 3:30pm through 9:30pm or on weekends and holidays during the Summer.
- C. Contractors are required to start working on site within 30 days of execution of contract, to the extent permitted by contract. Contractors are required to coordinate and perform work simultaneously with other Contractors. Contractors are required to complete their contract work by the designated Substantial Completion and Final Completion end dates as indicated on the Invitation to Bid.
- D. Mandatory clean up periods - From August 24th, 2024 to August 31st, 2024 and August 30th, 2024 to September 6th, 2024, contractors shall clean up all interior and exterior areas.
- E. Contractors are required per contract to fully staff the project during the work shifts stated above with the required manpower to complete their work within the allowed scheduled time frame. Contractors are required to provide a 72-hour advanced request to the Owner via the Construction Manager for any Saturday and Sunday work. If a project schedule delay has been caused by the fault of the contractor, the contractor is required to provide 3rd shift work from 9pm to 6am to make up the project schedule. All costs for CM, Architect and district personal related to this 3rd shift request will be

charged to the contractor at a combined rate for all at \$3,000 per 8hr shift.

- F. The shifts noted above are not considered overtime or premium time hours.
- G. Contract summaries will provide start and end date for each contractor.
- H. Additional requirements:
 - 1. Multiple Crews: Each Prime Contract shall provide multiple crews, supervision, cranes, scaffold and other means necessary to perform the Work, and maintain the Project Master Schedules.
 - 2. Interruption of any utility and/or power must be coordinated with the Owner, via the Construction Manager.
 - 3. Any and all -3rd shift, overtime, weekend and/or holiday work required to meet the Project Master Schedules shall be incorporated in the respective Prime Contract's bid.
 - 4. Should a Contractor's progress fall behind, as to schedule, Prime Contractor shall employ additional – 3rd shift and/or overtime and/or weekend workforce until situation is rectified, to the satisfaction of the Architect and Construction Manager, at no additional cost to the Owner, however subject to charges as stated in section 1.8 C for lack of maintaining schedule
 - 5. Should a Prime Contract feel another Prime Contract is delaying them enough time to complete their installations, per the schedule, the Architect and Construction Manager shall be notified in writing immediately of the situation (refer to Conditions of the Contract for protocol). A Prime Contract creating such a delay, that causes a proven burden upon another Prime Contract to maintain schedule, shall bear all costs incurred by the delayed Prime Contract to maintain the schedule.
 - 6. The Architect and Construction Manager shall not be overburdened as to overtime cost, to monitor the work, due to no cause of his or her own. Owner will compensate the Architect and Construction Manager for all additional cost related to the issue of a Prime Contractor's failing to execute the Contract by fully staffing per the work hours and days noted herein. The Owner reserves the right to back charge the responsible Prime Contract for these fees if incurred.
 - 7. All Asbestos and/or Lead Abatement shall take place to meet the requirements of the Preliminary Schedule and Project Master Schedules and shall be coordinated with the other Prime Contractors prior to commencement.
- I. The Work shall be conducted to provide the least possible interference to the activities of the Owner's personnel and the surrounding property owners (neighbors).
 - 1. Prime Contracts are hereby notified that: All Prime Contractors and their subcontractors shall limit excessive noise during 2nd shift known as work

extending to 10PM weekdays upon approval by owner and city work hour restrictions. These operations shall not create a disturbance to neighboring properties.

- J. Construction access to the site shall be limited to personnel, equipment and deliveries by suppliers relative to the Work of Prime Contractors and their subcontractors. Prime Contracts shall keep the Construction Manager advised of persons accessing the site and shall seek assistance with coordinating parking and storage facility locations for all Prime Contracts.
 - 1. Where applicable, Contractors shall provide Building Site perimeter barricades as described herein the project and all temporary exit doors/lockable gates on the Project, securing these doors, fencing and/or gates at the end of each work shift.
 - 2. When a Prime Contract engages in overtime, weekend or 2nd shift work, during the summer months and or during the normal school year, the respective Prime Contract shall notify Construction Manager of such and be responsible for securing the Project Site at the end of that work shift and perform site walk around the outside of construction area/work zone ensuring all debris is pickup up and there are no construction related hazards of any kind present once the responsible person leaves the site for the evening or weekend. This includes that all materials and equipment are fenced in and keys are removed. All interior projects have the same requirement to ensure that outside the work zone is clean from dust-dirt and that no materials are left outside the work area at any time.

1.11 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.12 DRAWINGS AND SPECIFICATIONS

- A. Construction Documents indicate the sum total of the Contract that make up the complete work for the Project. Through this Section "Summary of Work", the intent of the Contractor's scope of Work and responsibility is generally described. Related requirements and conditions that are indicated in the Contract Documents include but are not limited to the following:
 - 1. General Conditions and Requirements.
 - 2. Referenced and applicable Codes, Regulations and Standards.
 - 3. Scheduling and phasing requirements.
 - 4. Existing conditions and restrictions on use of the site and facilities.

- B. Drawings and Specifications are cooperative and supplementary. Portions of the Work, which can best be illustrated by Drawings, are not included in the Specifications and portions best described by Specifications are not depicted on Drawings.
 - 1. All items necessary to complete the work shall be furnished whether written or illustrated.
 - 2. All primes shall exercise good judgment and perform all work according to related industry standards.

PART 2 - SCOPE OF WORK

2.1 PRIME CONTRACTS

- A. Scope of Work: Work includes but is not limited to, the following:
 - 1. Provide all work identified in the Contract Documents.
 - 2. All Specification Sections provided.
 - 3. All abatement drawings provided for reference.

PART 3 - EXECUTION

3.1 WORK SEQUENCE

- A. The Work shall be conducted to provide the least possible interference to the activities of the Owner's personnel, per the Project Preliminary Schedule.
- B. Work required during overtime, extended shifts or holidays due to failure of contractor to maintain schedule, will be monitored by Architect/Construction Site representative, and may be monitored by Owners' personnel. Additional costs for Architect/Construction Site Representative and/or Owner personnel will be borne by the Contractor.
- C. Coordination of any utility and power interruption must be done with approval of the Architect/Construction Site Representative. Shutdowns must occur during non-occupied timeframes only.

- D. Construction access to the site shall be limited to those designated for personnel, equipment and deliveries by the Owner. All contractor staging, parking and storage shall be coordinated with the Construction Site Representative and subject to change.
- E. Payments: Each bid that covers more than one school (i.e. one SED project) shall provide completed AIA G732 & G703 by building (for each SED project).
- F. No work shall be installed without approved shop drawings. Any work in place without approved shop drawings will be rejected and removed by that contractor at their expense and backed charge all other costs related to.
- G. Any work deemed by CM, Architect and District not properly installed by a contractor per the contract drawings and specifications shall be removed immediately and corrected, with all associated costs to be borne solely by that contractor.
- H. All prime contractors shall coordinate their contract work with other primes to meet the project schedule and for a complete operational system or area or work.
- I. All contractors are to provide within 3 weeks of award a "base line" construction schedule for their work from commencement to completion including all phasing. This schedule is to be updated monthly to show percentage progress of each item listed. This schedule shall be revised to provide a recovery schedule in the event of a delay for any reason. The recovery schedule shall include the "base line" item and the recovery to show how the delay is affecting the overall project schedule. This schedule is to be provided in MS Project or Primavera. Excel schedules are not accepted.
- J. Prime contractor "base line" schedules are to be reviewed by each prime contractor and coordinated where work is related and that each prime's work shall be included in each "base line" contractor's schedule as necessary for coordination.
- K. All contractors are to provide 2-week look ahead schedules showing work related to the base line and shall be coordinated with other prime 2-week look ahead schedules. These schedules will be Excel format. Format will be provided by the CM.
- L. Contractors to provide a full-time supervisor on site 100% of the time. This is not a working foreman. Supervisors are not working with tools they are supervising their workers and coordinating with other contractors and district/ CM. Failure to provide will be default of your contract and subject costs related to and termination.
- M. All prime contractors are to provide a project manpower structure showing names and telephone numbers of each responsible person on the project. This shall be updated as needed if personal changes are made.
- N. All site equipment and dumpsters are to be behind temporary chain link fence when stored on site and or within the construction work zone where temporary chain link fence has been providing and installed by the prime. Each prime contractor is

- responsible to provide and install temporary chain link fence around their own stored equipment and dumpsters on site.
- O. No equipment, panels or any services shall be turned off for any reason without written request and approval by the district. Project form shall be used for all shutdowns and required a 3-day notice. Other shutdowns may require more time.
- P. **CONTRACT MC-01 – MECHANICAL WORK & PLUMBING WORK (MC) —**
MECHANICAL/PLUMBING PRIME CONTRACT AT, NANUET SENIOR HIGH SCHOOL & BARR MIDDLE SCHOOL, FOR (BUT NOT LIMITED TOO), MECHANICAL PIPING, DUCTING, CONTROLS, HYDRONIC PIPING, ANY WORK RELATED TO ROOFING SHALL BE COORDINATED WITH ROOFING CONTRACT INSTALLATION. ALL INTERIOR WORK SHALL BE COORDINATED WITH GENERAL CONTRACTS. SEE MILESTONE & PHASING SCHEDULED FOR MORE DETAILS.
- Q. **All roof top and under roof steel support/dunnage is by MC-01. BE-01 will flash all steel penetrations. Review S drawings for scope.**
- R. **All abatement of piping & flooring in relation to mechanical scope is by MC-01. MC-01 shall be responsible for abatement of VAT under all unit ventilators. See ADB drawings for scope.**
- S. **MC-01 is responsible for all casework removals, modifications, & installs of casework associated with all unit ventilator replacements. See “A” drawings for scope.**
- T. **MC-01 is responsible for all ceiling removal and replacement associated with HVAC work. See “A” drawings for scope.**
- U. MC-01 shall provide any chases required for HVAC risers through stories of the buildings. All slab penetrations are to be fire-stopped. All chase’s to have eased edges.
- V. All HVAC louvers/vents are supplied by MC-01. Coordinate opening with other primes.
- W. HVAC control wiring is provided and installed by MC-01. Power wiring by EC-01.
- X. Housekeeping pads for new HVAC equipment are by MC-01.
- Y. MC-01 is responsible for making their own through wall or through floor piping penetrations and is responsible for associated patching and firestopping as required.
- Z. Access doors for plumbing is provided by MC-01 and installed by GC-01.
- AA. To allow sufficient time for install, MC-01 is to provide BE-01 with any roof top curbs or rails for mechanical equipment and a coordinated sketch showing exact locations with distance from column line. If information and material is not provided in a timely manor, MC will then be responsible for all flashings of rooftop equipment or additional costs incurred for roofer to remobilize.
- BB. All duct detectors are furnished by EC and installed by MC.
- CC. All fire and or fire/smoke dampers are installed by MC.

DD. ALL CONTROL WIRING IS BY MC

- A. Project Site Superintendent: MC shall provide one (1) full time Project Site Superintendent while any work related to this Contract is being performed on site. Superintendent may be a working Foreman as long as the daily requirements of this Contract are maintained, as they relate to the Construction Documents and the Project Schedule. Construction Manager reserves the right, in their opinion, to revoke this privilege if these requirements are not maintained. Superintendent shall work closely with the Construction Manager, and the other Prime Contract Superintendents and Foremen, in a manner that best promotes the Project Master Schedules and the objectives of the Project.
1. Superintendent shall be on site while Prime Contractor's own forces, and/or their sub-contractors forces, are on site; also while other Prime Contracts are installing work, or require coordination of work, related to this Contract, and/or as requested by the Construction Manager.
 2. Superintendent shall be the same individual throughout the Project.
 3. Project Site Superintendent shall be an individual with minimum of five (5) years' experience in this field of work.
 4. Refer to Section 013100 "Project Management and Coordination" for further requirements.
- B. Project Foreman: MC shall provide at least one (1) full time Project Foreman during each shift of work at each school; Foreman shall be able to make binding decisions, as they relate to the daily activities of their crew, as related to achieving the goals of the Project.
- C. Site Communications: MC shall provide Project Superintendent with a mobile phone, all costs and service charges paid for by MC; provide Construction Manager with contact number(s).
- D. Project Site Field Office: Provide site office facilities for this Contract's Project Superintendent. Site Office shall be equipped with telephone w/answering machine, fax, and e-mail. Contact information shall be provided to the Construction Manager.
1. The Owner reserves the right to seek reimbursement for temporary facilities not provided by this Prime Contract.
- E. Scope of Work: Work of the MC includes but is not limited to, the following:
1. Coordination with other Prime Contracts, Owner and Construction Manager as required to adhere to and maintain approved Project Master Schedules. Prior to first payment, this includes submitting the Contractor's Construction Schedule to the Construction Manager for preparation of the Project Master Schedule.

2. All Mechanical demolition and new construction as indicated in the Contract Documents.
3. Mechanical scope is identified in the Contract Documents which include but is not limited to ALL drawings, specifications, this multiple contract summary, etc. This contract includes furnishing and installing access doors for walls and ceiling as required, which may include fire rated conditions., Prior to the submission of shop drawings for mechanical curbs, survey all existing curbs for accurate measurements. Determination of new curb height shall be made in coordination with Contract Documentation..
4. Prior to removal, survey condition of all existing roof top mechanical equipment scheduled to be removed and reinstalled and submit a report of the condition of each piece of existing equipment. Report shall include photographs and a location plan, and be submitted to the Architect and Construction Manager.
5. Removal, safe storage off roof (or outside of work area, as coordinated with BE Contractor), and reinstallation of all existing mechanical roof top equipment as indicated in the Contract Documents. Demolish existing curbs (following asbestos abatement by others) and provide and install new equipment curbs.
6. Reinstallation mechanical scope includes all miscellaneous piping, ductwork extension, low voltage wiring, equipment, hardware and insulation required for a complete and functional reinstallation of existing rooftop equipment. Coordinate any new roof penetrations, if required, with BE Contractor.
7. Reinstallation mechanical scope includes start-up, testing & balancing and recommissioning services for reinstalled mechanical equipment. Submit testing & balancing and commissioning reports to Architect and Construction Manager.
8. Prime Contract shall understand that renovation work may require work to proceed while existing systems are required to be maintained; all cost associated with this sequence shall be anticipated, and incorporated into the Bid.
 - a. MC shall be cognizant of phasing and sequencing conditions, that may require MC to make temporary connections or installations of heating system components, in order to maintain operation of existing/new system configuration(s). It shall be the Prime Contract's responsibility to employ its own means and methods of accomplishing any such temporary conditions, at no additional cost to the owner.
 - b. All new heating system components must be protected, from potential contamination, by any existing components that are still employed during system operation, should a partial existing/new configuration exist during the required heating period, September 15th – May 31st.
9. Prime Contractor shall read and familiarized themselves with the Lead Sections of the Construction Documents. Lead-based paint has been identified to exist on specific areas/surfaces of the work located within the building(s), and when encountered the Prime Contractor shall follow all applicable regulations while working with this material.

10. Prime Contractor shall read and familiarized themselves with the Asbestos Sections of the Construction Documents. Asbestos Containing Material is scheduled to be abated throughout specific areas of the building(s). Should ACM be encountered (after Abatement is completed), that may interfere with an installation; Prime Contractor shall cease work, and notify Construction Manager immediately.
 - a. Penetrations not coordinated with the Prime Contractor responsible for asbestos abatement, prior to abatement of these spaces, shall become the responsibility of the respective Prime Contract requiring the penetration.
 - b. Contractor is required to review their work in the field prior to starting and advise if ACM is suspect on the work they intend to alter in anyway. There is no delay claim for lack of inspection of work.
11. Environmental Protection: Provide protection, and conduct construction in ways and by methods that comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
 - a. Restrict use of noisemaking tools and equipment to hours that will minimize complaints from persons or firms on or near the Project site.
12. The HVAC drawings are schematic in nature, and the MC will make adequate provisions to accommodate the actual field conditions without additional cost to the Owner.
13. Document on the Record Drawings all ductwork openings and penetrations larger than 2 inches in diameter.
14. Provide all demolition of Mechanical Systems indicated in the Construction Documents, and/or required for Work of this Prime Contract.
 - a. Coordinate all demolition with Hazardous Materials documents.
 - b. Coordinate with all other Prime Contracts regarding all removals required for the Project.
 - c. Demolition of a system shall mean any and all components, removed in their entirety, to the point of origin or source.
15. Provide valves, whether permanent or temporary, to permit shutoff and/or capping of systems to achieve the Work of this Prime Contract.
16. Each Prime Contract shall be responsible for all respective SOG/SOD removals, and related infill thereof (doweled with #4 bar 16"o.c. unless otherwise detailed), that are not indicated on the Architectural Demolition plans.
 - a. All concrete/masonry demolition shall be completed using wet saw methods.
17. MC Contractor shall provide all Work associated with creating structural openings or penetrations requiring lintels, for their own work (i.e. ductwork and pipe or conduit penetrations). This applies to all openings/penetrations greater than 5-inches through masonry or concrete walls.
 - a. MC shall provide lintels and shop drawings for such openings for review by Design Team. MC shall indicate all required openings/penetrations requiring lintels on their Shop Drawings. Mechanical contractor is required to provide openings/penetrations on the coordination drawings that will require structural

- openings in accordance with the contract documents at no additional cost. Non-structural openings/penetrations, including those for convenience, shall be self-provided by the respective Prime Contractor.
- b. This assignment applies to new and existing construction areas.
 - c. Refer to Structural documents for lintel type/size requirements and Architectural drawings for wall types. Walls not specifically identified in the documents are to be assumed as masonry construction.
 - d. All openings/penetrations are to be identified on Record Drawings by the Prime Contract requiring the opening.
 - e. All scheduled exterior wall louver openings indicated on Architectural and/or Structural documents are to be created by this MC Contractor. MC shall supply and install louver.
 - f. Exact physical locations shall be laid-out by MC for coordinated sequencing with other respective Prime Contractors.
18. Provide cut and patch work related to that of this Prime Contract,, related to that of their Prime Contract, and at those areas specifically identified on the Construction Documents, regardless of trade creating the area to be patched.
- a. Each Prime Contract is responsible for all other respective Cutting & Patching required of their installations. Refer to Section 017329 "Cutting and Patching" for further information.
 - b. Provide cut and patch for all affected materials at building interiors as required to provide access for relocation of existing or installation of new roof drains and rood drain leaders, to point of connection to existing piping or to building exterior, as indicated in Contract Documents.
19. Provide new HVAC system(s), or modifications of existing system(s) as indicated in the Construction Documents, complete and fully operational.
- a. Furnish all disconnects and motor starters (including related "heaters, fuses, and phase protection relays") for all equipment provided under this contract, for coordinated installation by EC.
 - b. Provide Instrumentation and Controls (Energy Management System) complete as indicated on the drawings or specifications:
 - 1) Electrical Contractor shall provide line voltage power wiring to the control panels as indicated in the Contract Documents.
 - 2) EMS installer shall provide all low voltage wiring of controls, transformers, actuated dampers, motors, etc., as required for a complete operational system.
 - c. Provide thermal insulation of all HVAC components provided by this Prime Contract.
20. Final connections of utilities are by MC, EC or PC, unless noted or assigned otherwise.
21. Provide sleeves required for piping penetrating walls, slabs and/or decks.

22. Provide through-penetration fire stop systems at all penetrations made by MC. MC Contractor shall maintain listed ratings of indicated assemblies. Provide repair of existing through-penetration fire stopping damaged by work of this Prime Contract.
 - a. Sleeves with fire stopping are to be installed in sequence with fire-rated construction. This Prime Contract shall be responsible for installing fire stopping material at intersection of sleeve and constructed materials.
23. Provide coordination with, and notification to, the Construction Manager for all specified testing, training, commissioning, etc., of the Work of this Prime Contract. Refer to Division 00 Section "Project Forms" for applicable documentation documents.
24. Substantial Completion: Clean all mechanical and plumbing installations and provided equipment at the time of Substantial Completion or as directed by Construction Manager.
25. Coordinate all the preceding requirements, accordingly, with all applicable Alternates indicated in Section 012300 "Alternates".

F. Applicable Specification Sections: All specification Sections itemized below are to be provided complete by this Prime Contract, unless noted otherwise. In addition to these specifications, the contractor is required to review all specifications included in the overall contract that may contain related scope or detail for this specific contract.

- i) All Division 00 and 01 – Procurement and Contracting Requirements & General Requirements
- ii) Division 03 – Concrete
- iii) Division 05 – Structural Steel
- iv) Division 06 – Woods & Plastics
- v) Division 07 – Thermal & Moisture Protection
- vi) Division 09 – Finishes
- vii) Division 23 – Heating, Ventilating, and Air Conditioning

G. Applicable Drawings : All drawings itemized below are to be provided complete by this Prime Contract, unless noted otherwise. In addition to these drawings, the contractor is required to review all drawings included in the overall contract that may contain related scope or detail for this specific contract.

- a. All "G" drawings – Both Schools
- b. All "M" Drawings – Both schools
2. Nanuet High School
 - a. HS-ASB-1, HS-ASB-2, HS-ASB4
 - b. HS-S001, HS-S101, HS-S501
 - c. HS-AD110
 - d. HS-A101,

3. Barr Middle School:
 - a. MS-S100, MS-S101, MS-S501
 - b. BM-AD101, BM-AD102. NOTE ELEVATOR "A" Scope is by GC-01
 - c. BM-A101, BM-A102, BM-A103, BM-A104, BM-A105 NOTE: Exterior fencing and pad by EC-01, BM-A106, BM-A107, BM-A111, BM-A112,
 - d. MS-ASB-1 – First floor abatement plan, MS-ASB-2,

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SECTION 01 21 00 – ALLOWANCES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements governing allowances.
 - 1. Selected materials and equipment are specified in the Contract Documents by allowances. In some cases, these allowances include installation. Allowances have been established in lieu of additional requirements and to defer selection of actual materials and equipment to a later date when additional information is available for evaluation. If necessary, additional requirements will be issued by Change Order.
- B. Types of allowances include the following:
 - 1. Lump-sum allowances.
 - 2. Contingency allowances.
- C. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 1 Section "Modification Procedures" specifies procedures for submitting and handling Change Orders.
 - 2. Division 1 Section "Quality Control Services" specifies procedures governing the use of allowances for inspection and testing.

1.3 SELECTION AND PURCHASE

- A. At the earliest practical date after award of the Contract, advise the Architect of the date when the final selection and purchase of each product or system described by an allowance must be completed to avoid delaying the Work.
- B. At the Architect's request, obtain proposals for each allowance for use in making final selections. Include recommendations that are relevant to performing the Work.
- C. Purchase products and systems selected by the Architect from the designated supplier

1.4 SUBMITTALS

- A. Submit proposals for purchase of products or systems included in allowances, in the form specified for Change Orders.
- B. Submit invoices or delivery slips to show the actual quantities of materials delivered to the site for use in fulfillment of each allowance.

1.5 CONTINGENCY ALLOWANCES

- A. Use the contingency allowance only as directed for the Owner's purposes and only by Change Orders that indicate amounts to be charged to the allowance.

- B. The Contractor's overhead and profit, including costs for bonds and insurance, delivery, equipment rental and similar costs, for these allowances shall be included in the values of the general requirements of contract sum and are not chargeable under allowance disbursement.
- C. At Project closeout, credit unused amounts remaining in the contingency allowance to the Owner by Change Order.

1.6 UNUSED MATERIALS

- A. Return unused materials to the manufacturer or supplier for credit to the Owner, after installation has been completed and accepted.
 - 1. When requested by the Architect, prepare unused material for storage by Owner where it is not economically practical to return the material for credit. When directed by the Architect, deliver unused material to the Owner's storage space. Otherwise, disposal of unused material is the Contractor's responsibility.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine products covered by an allowance promptly upon delivery for damage or defects.

3.2 PREPARATION

- A. Coordinate materials and their installation for each allowance with related materials and installations to ensure that each allowance item is completely integrated and interfaced with related work.

3.3 SCHEDULE OF ALLOWANCES

- A. Include a contingency allowance for each Base Bid according to the following schedule:
 - 1. Contract BE-01 – General Contract Work: Provide a Contingency Allowance of:
 - a. \$162,000 for use at **Nanuet High School** according to Owner's instructions.
 - b. \$108,000 for use at **Barr Middle School** according to Owner's instructions.
 - 2. Contract GC-01 – General Contract Work: Provide a Contingency Allowance of:
 - a. \$42,000 for use at **Nanuet High School** according to Owner's instructions.
 - b. \$15,000 for use at **Barr Middle School** according to Owner's instructions.
 - 3. Contract EC-01 – General Contract Work: Provide a Contingency Allowance of:
 - a. \$25,000 for use at **Nanuet High School** according to Owner's instructions.
 - b. \$55,000 for use at **Barr Middle School** according to Owner's instructions.
 - 4. Contract MC-01 – General Contract Work: Provide a Contingency Allowance of:
 - a. \$200,000 for use at **Nanuet High School** according to Owner's instructions.
 - b. \$180,000 for use at **Barr Middle School** according to Owner's instructions.

END OF SECTION 012100

SECTION 01 22 00 - UNIT PRICES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for unit prices.
- B. Related Requirements:
 - 1. Section 01 26 00 "Contract Modification Procedures" for procedures for submitting and handling Change Orders.
 - 2. Section 01 45 00 "Quality Requirements" for general testing and inspecting requirements.

1.3 DEFINITIONS

- A. Unit price is an amount incorporated in the Agreement, applicable during the duration of the Work as a price per unit of measurement for materials, equipment, or services, or a portion of the Work, added to or deducted from the Contract Sum by appropriate modification, if the scope of Work or estimated quantities of Work required by the Contract Documents are increased or decreased.

1.4 PROCEDURES

- A. Unit prices include all necessary material, plus cost for delivery, installation, insurance, overhead, and profit.
- B. Measurement and Payment: See individual Specification Sections for work that requires establishment of unit prices. Methods of measurement and payment for unit prices are specified in those Sections.
- C. Owner reserves the right to reject Contractor's measurement of work-in-place that involves use of established unit prices and to have this work measured, at Owner's expense, by an independent surveyor acceptable to Contractor.
- D. List of Unit Prices: A schedule of unit prices is included in Part 3. Specification Sections referenced in the schedule contain requirements for materials described under each unit price.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF UNIT PRICES

General Contractor – GC-01

- A. Unit Price GC #1: Abatement of VAT
 - 1. Description: Abatement of ACM floor Tile & Mastic (VAT) to be used as an add or deduct from base bid quantities.
 - 2. Unit of Measurement: Per Linear Foot (SF) of flooring
- B. Unit Price GC #2: Abatement of ACM pipe insulation
 - 1. Description: All labor and material Abatement of ACM pipe insulation (including elbows) to be used as an add or deduct from base bid quantities.
 - 2. Unit of Measurement: Per Linear Foot (LF) of insulation

Building Envelope Contractor – BE-01

- C. Unit Price BE #1: Roofing Caulk Abatement
 - 1. Description: All labor and material for abatement of non-friable asbestos containing roof caulk along with perimeter metal roof termination bar and any trim.
 - 2. Unit of Measurement: Per Linear foot (LF)
- D. Unit Price BE #2: Roof System complete demo and replacement as detailed in the contract documents.
 - 1. Description: All labor and material for removal down to roof deck and replacement of roofing as detailed in the contract documents.
 - 2. Unit of Measurement: Per Square foot (SF)
- E. Unit Price BE #3: Replacement of metal roof coping
 - 1. Description: All labor and material for removal and replacement of roof coping as detailed in the contract documents.
 - 2. Unit of Measurement: Per Linear foot (LF)

Electrical Contractor – EC-01

- F. Unit Price EC #1: Abatement of ACM wire insulation
 - 1. Description: All labor and material abatement of ACM wire insulation (including elbows) to be used as an add or deduct from base bid quantities. As identified by the electrical contractor.
 - 2. Unit of Measurement: Per Linear Foot (LF) of insulation

Mechanical Contractor – MC

- G. Unit Price MC #1: Abatement of VAT
1. Description: All labor and material abatement of ACM floor Tile & Mastic (VAT) to be used as an add or deduct from base bid quantities.
 2. Unit of Measurement: Per Linear Foot (SF) of flooring
- H. Unit Price MC #2: Abatement of ACM pipe insulation
1. Description: All labor and material abatement of ACM pipe insulation (including elbows) to be used as an add or deduct from base bid quantities.
 2. Unit of Measurement: Per Linear Foot (LF) of insulation

END OF SECTION 01 22 00

End of Section 01 22 00

SECTION 07 42 13 - COMPOSITE METAL PANELS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This section includes the performance criteria, materials, production, and erection of metal composite material wall panel systems for the project. The work performed under this Section consists of the provision of all plant, materials, labor and equipment and the like necessary and/or required for the complete execution of all metal composite material wall panel systems as required by this section, schedules, keynotes and drawings including, but not limited to the following.
 - 1. Aluminum faced composite panels with mounting system. Panel mounting system including anchorages, shims, furring, fasteners, gaskets and sealants, related flashing adapters, and masking (as required) for a complete watertight installation.
 - 2. Parapet coping, column covers, soffits, sills, border, and filler items indicated as integral components of the panel system or as designed.
 - 3. Interior panel ceiling system work that matches exterior panel system work.
 - 4. Provide for two colors of metal panels. See drawings for color locations.
- B. Related Requirements:
 - 1. Division 5: Structural steel and Cold-formed metal framing
 - 2. Division 6: Back up walls.
 - 3. Division 7: Insulation, Metal flashing and counter flashing, Caulking and sealants.
 - 4. Division 9: Interior finishes.
- C. This work includes all composite metal panels, with the exception that at the East and West Additions, the exterior metal panels are installed under separate envelope project.

1.3 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.
 - 1. Meet with Owner, Architect, Owner's insurer if applicable, metal composite material panel Installer, metal composite material panel manufacturer's representative, structural-support Installer, and installers whose work interfaces with or affects metal composite material panels, including installers of doors, windows, and louvers.
 - 2. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.

3. Review methods and procedures related to metal composite material panel installation, including manufacturer's written instructions.
4. Examine support conditions for compliance with requirements, including alignment between and attachment to structural members.
5. Review flashings, special siding details, wall penetrations, openings, and condition of other construction that affect metal composite material panels.
6. Review governing regulations and requirements for insurance, certificates, and tests and inspections if applicable.
7. Review temporary protection requirements for metal composite material panel assembly during and after installation.
8. Review procedures for repair of panels damaged after installation.
9. Document proceedings, including corrective measures and actions required, and furnish copy of record to each participant.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Include construction details, material descriptions, and tested physical and performance properties of panels and accessories.
2. Include manufacturer's written instructions for evaluating, preparing, and treating substrate.

B. Shop Drawings:

1. Show locations and extent of waterproofing and details of substrate joints and cracks, sheet flashings, penetrations, inside and outside corners, tie-ins with adjoining waterproofing, and other termination conditions.
2. Include fabrication and installation layouts of metal composite material panels; details of edge conditions, joints, panel profiles, corners, anchorages, attachment assembly, trim, flashings, closures, and accessories; and special details.
3. Accessories: Include details of the flashing, trim and anchorage, at a scale of not less than 1-1/2 inches per 12 inches (1:10).

C. Samples for Initial Selection: For each type of metal composite material panel indicated with factory-applied color finishes.

1. Include similar Samples of trim and accessories involving color selection.

D. Samples for Verification: For each type of exposed finish required, prepared on Samples of size indicated below.

1. Mockup for each type of panel system assembly (12" x 12").
2. Two samples of each color or finish selected minimum 3" x 4".
3. Metal Composite Material Panels: 12 inches (305 mm) long by actual panel width. Include fasteners, closures, and other metal composite material panel accessories.

E. Code Compliance

1. Documents showing product compliance with the national and local building code shall be submitted prior to the bid. These documents shall include, but not be limited to, appropriate Evaluation Reports and/or test reports supporting the use of the product.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Product Test Reports: For each product, tests performed by a qualified testing agency.
- C. Field quality-control reports.
- D. Sample Warranties: For special warranties.

1.6 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For metal composite material panels to include in maintenance manuals.

1.7 QUALITY ASSURANCE

- A. Manufacturer/Installer Qualifications:
 - 1. Products shall be produced by a single manufacturer unless otherwise specified.
 - 2. Composite Panel Manufacturer shall have a minimum of 5 years experience in the manufacturing of this product.
 - 3. Composite Panel Manufacturer shall be solely responsible for panel manufacture and application of the finish.
 - 4. Fabricator/installer shall be acceptable to the composite panel manufacturer.
 - 5. Fabricator/Installer shall have a minimum 5 years experience of metal panel work similar in scope and size to this project.
- B. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for fabrication and installation.
 - 1. Build mockup of typical metal composite material panel assembly as shown on Drawings including corner, soffits, supports, attachments, and accessories.
 - 2. Water-Spray Test: Conduct water-spray test of mockup of metal composite material panel assembly, testing for water penetration according to AAMA 501.2.
 - 3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
 - 4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.
- C. Field Measurements should be taken prior to the completion of shop fabrication whenever possible. Coordinate fabrication schedule with constriction progress as directed by the Contractor to avoid delay of work. Field fabrication is required to ensure proper fit.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Deliver components, metal composite material panels, and other manufactured items so as not to be damaged or deformed. Package metal composite material panels for protection during transportation and handling.

- B. Unload, store, and erect metal composite material panels in a manner to prevent bending, warping, twisting, and surface damage.
- C. Stack metal composite material panels horizontally on platforms or pallets, covered with suitable weathertight and ventilated covering. Store metal composite material panels to ensure dryness, with positive slope for drainage of water. Do not store metal composite material panels in contact with other materials that might cause staining, denting, or other surface damage.
- D. Retain strippable protective covering on metal composite material panels during installation.

1.9 FIELD CONDITIONS

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit assembly of metal composite material panels to be performed according to manufacturers' written instructions and warranty requirements.

1.10 COORDINATION

- A. Coordinate metal composite material panel installation with rain drainage work, flashing, trim, construction of soffits, and other adjoining work to provide a leakproof, secure, and noncorrosive installation.

1.11 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of metal composite material panel systems that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Structural failures including rupturing, cracking, or puncturing.
 - b. Deterioration of metals and other materials beyond normal weathering.
 - 2. Warranty Period: Five years from date of Substantial Completion.
- B. Special Warranty on Panel Finishes: Manufacturer's standard form in which manufacturer agrees to repair finish or replace metal composite material panels that show evidence of deterioration of factory-applied finishes within specified warranty period.
 - 1. Exposed Panel Finish: Deterioration includes, but is not limited to, the following:
 - a. Color fading more than 5 Hunter units when tested according to ASTM D 2244.
 - b. Chalking in excess of a No. 8 rating when tested according to ASTM D 4214.
 - c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.
 - 2. Finish Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MATERIALS, GENERAL

- A. Source Limitations for Wall Panel System: Obtain system materials from single source from single manufacturer.

2.2 PERFORMANCE REQUIREMENTS

- A. Structural Performance: Provide metal composite material panel systems capable of withstanding the effects of the following loads, based on testing according to ASTM E 330:
1. Wind Loads: As indicated on Drawings.
 2. Other Design Loads: As indicated on Drawings.
 3. Deflection Limits: For wind loads, no greater than 1/240 of the span.
- B. Air Infiltration: Air leakage of not more than 0.06 cfm/sq. ft. (0.3 L/s per sq. m) when tested according to ASTM E 283 at the following test-pressure difference:
1. Test-Pressure Difference: 6.24 lbf/sq. ft. (300 Pa).
- C. Water Penetration under Static Pressure: No water penetration when tested according to ASTM E 331 at the following test-pressure difference:
1. Test-Pressure Difference: 6.24 lbf/sq. ft. (300 Pa).
 2. Design to drain any water leakage occurring at the joints.
- D. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes by preventing buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.
1. Temperature Change (Range): 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.
- E. Fire-Resistance Ratings: Comply with ASTM E 119; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
1. Indicate design designations from UL's "Fire Resistance Directory" or from the listings of another qualified testing agency.

2.3 METAL COMPOSITE MATERIAL PANELS

- A. Metal Composite Material Panel Systems: Provide factory-formed and -assembled, metal composite material panels fabricated from two metal facings that are bonded to a solid, extruded thermoplastic core; formed into profile for installation method indicated, with no glues or adhesives between dissimilar materials. The core material shall be free of voids and / or air spaces and not contain foamed insulation material. Include attachment assembly components, panel stiffeners, and accessories required for weathertight system.

1. Basis-of-Design Product: Subject to compliance with requirements, provide Alucobond by 3A Composites USA, Inc., or approved equal product by one of the following:
 - a. Alcoa Inc.
 - b. Gordon, Inc.
 - c. Omega Panel Products.
 - d. Petersen Aluminum Corporation.
- B. Aluminum-Faced Composite Panels: Formed with 0.020-inch- (0.50-mm-) thick, coil-coated aluminum sheet facings.
 1. Panel Thickness: 0.157 inch (4 mm).
 2. Panel Weight: 1.12 lbs./sq.ft.
 3. Exterior Finish: Three-coat fluoropolymer.
- C. Attachment Assembly Components: Formed from extruded aluminum.
- D. Attachment Assembly: Manufacturer's standard.
- E. System Type:
 1. Rout and Return Dry:
 - a. System must provide a perimeter aluminum extrusion with integral weather stripping. No field sealant required in joints unless specifically noted on drawings. Provide a means of concealed drainage with baffles and weeps for water which may accumulate in members of the system.
- F. Fasteners: As per Manufacturer's recommendation.

2.4 MISCELLANEOUS MATERIALS

- A. Miscellaneous Metal Subframing and Furring: ASTM C 645, cold-formed, metallic-coated steel sheet ASTM A 653/A 653M, G90 (Z275 hot-dip galvanized) coating designation or ASTM A 792/A 792M, Class AZ50 (Class AZM150) aluminum-zinc-alloy coating designation unless otherwise indicated. Provide manufacturer's standard sections as required for support and alignment of metal composite material panel system.
- B. Panel Accessories: Provide components required for a complete, weathertight panel system including trim, copings, fasciae, mullions, sills, corner units, clips, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of metal composite material panels unless otherwise indicated.
- C. Flashing and Trim: Provide flashing and trim formed from same material as metal composite material panels as required to seal against weather and to provide finished appearance. Locations include, but are not limited to, bases, drips, sills, jambs, corners, endwalls, framed openings, rakes, fasciae, parapet caps, soffits, reveals, and fillers. Finish flashing and trim with same finish system as adjacent metal composite material panels.

- D. Panel Fasteners: Self-tapping screws designed to withstand design loads. Provide exposed fasteners with heads matching color of metal composite material panels by means of plastic caps or factory-applied coating. Provide EPDM or PVC sealing washers for exposed fasteners.

2.5 FABRICATION

- A. General: Fabricate and finish metal composite material panels and accessories at the factory, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance requirements demonstrated by laboratory testing. Comply with indicated profiles and with dimensional and structural requirements.
- B. Fabricate metal composite material panel joints with factory-installed captive gaskets or separator strips that provide a weathertight seal and prevent metal-to-metal contact, and that minimize noise from movements.
- C. Sheet Metal Flashing and Trim: Fabricate flashing and trim to comply with manufacturer's recommendations and recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to design, dimensions, metal, and other characteristics of item indicated.
 - 1. Form exposed sheet metal accessories that are without excessive oil canning, buckling, and tool marks and that are true to line and levels indicated, with exposed edges folded back to form hems.
 - 2. Seams for Aluminum: Fabricate nonmoving seams with flat-lock seams. Form seams and seal with epoxy seam sealer. Rivet joints for additional strength.
 - 3. Seams for Other Than Aluminum: Fabricate nonmoving seams in accessories with flat-lock seams. Tin edges to be seamed, form seams, and solder.
 - 4. Sealed Joints: Form non-expansion, but movable, joints in metal to accommodate sealant and to comply with SMACNA standards.
 - 5. Conceal fasteners and expansion provisions where possible. Exposed fasteners are not allowed on faces of accessories exposed to view.
 - 6. Fabricate cleats and attachment devices from same material as accessory being anchored or from compatible, noncorrosive metal recommended in writing by metal panel manufacturer.
 - a. Size: As recommended by SMACNA's "Architectural Sheet Metal Manual" or metal wall panel manufacturer for application but not less than thickness of metal being secured.

2.6 FINISHES

- A. Protect mechanical and painted finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- B. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.
- C. Aluminum Panels and Accessories:

1. Coil coated KYNAR 500 or HYLAR 5000 based Polyvinylidene Fluoride (PVDF) or Fluoro Ethylene Alkyl Vinyl Ether (FEVE) resin in conformance with the general requirements of AAMA 2605.

D. Colors:

1. Basis of Design- Alucobond Copper Penny PVDF-2/Gloss level-30
2. As selected by Architect, from full range of manufacturer's standard colors.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, metal composite material panel supports, and other conditions affecting performance of the Work.
 1. Examine wall framing to verify that girts, angles, channels, studs, and other structural panel support members and anchorage have been installed within alignment tolerances required by metal composite material wall panel manufacturer.
 2. Examine wall sheathing to verify that sheathing joints are supported by framing or blocking and that installation is within flatness tolerances required by metal composite material wall panel manufacturer.
 - a. Verify that air- or water-resistive barriers have been installed over sheathing or backing substrate to prevent air infiltration or water penetration.
- B. Examine roughing-in for components and assemblies penetrating metal composite material panels to verify actual locations of penetrations relative to seam locations of metal composite material panels before installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Miscellaneous Supports: Install subframing, furring, and other miscellaneous panel support members and anchorages according to ASTM C 754 and metal composite material panel manufacturer's written recommendations.

3.3 METAL COMPOSITE MATERIAL PANEL INSTALLATION

- A. General: Install metal composite material panels according to manufacturer's written instructions in orientation, sizes, and locations indicated on Drawings. Install panels perpendicular to supports unless otherwise indicated. Anchor metal composite material panels and other components of the Work securely in place, with provisions for thermal and structural movement.
 1. Shim or otherwise plumb substrates receiving metal composite material panels.

2. Flash and seal metal composite material panels at perimeter of all openings. Fasten with self-tapping screws. Do not begin installation until air- or water-resistive barriers and flashings that will be concealed by metal composite material panels are installed.
 3. Install screw fasteners in predrilled holes.
 4. Locate and space fastenings in uniform vertical and horizontal alignment.
 5. Install flashing and trim as metal composite material panel work proceeds.
 6. Locate panel splices over, but not attached to, structural supports. Stagger panel splices and end laps to avoid a four-panel lap splice condition.
 7. Align bottoms of metal composite material panels and fasten with blind rivets, bolts, or self-tapping screws. Fasten flashings and trim around openings and similar elements with self-tapping screws.
 8. Provide weathertight escutcheons for pipe- and conduit-penetrating panels.
- B. Fasteners:
1. Aluminum Panels: Use aluminum or stainless-steel fasteners for surfaces exposed to the exterior; use aluminum or galvanized-steel fasteners for surfaces exposed to the interior.
- C. Metal Protection: Where dissimilar metals contact each other or corrosive substrates, protect against galvanic action as recommended in writing by metal composite material panel manufacturer.
- D. Attachment Assembly, General: Install attachment assembly required to support metal composite material wall panels and to provide a complete weathertight wall system, including subgirts, perimeter extrusions, tracks, drainage channels, panel clips, and anchor channels.
1. Include attachment to supports, panel-to-panel joinery, panel-to-dissimilar-material joinery, and panel-system joint seals.
- E. Installation: Attach metal composite material wall panels to supports at locations, spacings, and with fasteners recommended by manufacturer to achieve performance requirements specified.
1. Seal horizontal and vertical joints between adjacent metal composite material wall panels with manufacturer's standard gaskets.
 2. Install furring channels (7/8-inch) outboard of rigid insulation, secured to CMU backup; metal composite panels are installed with system clips and fastened thru the furring channel.
- F. Clip Installation: Attach panel clips to supports at locations, spacings, and with fasteners recommended by manufacturer. Attach routed-and-retained flanges of wall panels to panel clips with manufacturer's standard fasteners.
1. Seal horizontal and vertical joints between adjacent metal composite material wall panels with manufacturer's standard gaskets.
 2. Install furring channels (7/8-inch) outboard of rigid insulation, secured to CMU backup; metal composite panels are installed with system clips and fastened thru the furring channel.
- G. Accessory Installation: Install accessories with positive anchorage to building and weathertight mounting, and provide for thermal expansion. Coordinate installation with flashings and other components.

1. Install components required for a complete metal composite material panel assembly including trim, copings, corners, seam covers, flashings, sealants, gaskets, fillers, closure strips, and similar items. Provide types indicated by metal composite material panel manufacturer; or, if not indicated, provide types recommended in writing by metal composite material panel manufacturer.
- H. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and SMACNA's "Architectural Sheet Metal Manual." Provide concealed fasteners where possible, and set units true to line and level as indicated. Install work with laps, joints, and seams that are permanently watertight.
1. Install exposed flashing and trim that is without buckling and tool marks and that is true to line and levels indicated, with exposed edges folded back to form hems. Install sheet metal flashing and trim to fit substrates and to result in waterproof performance.
 2. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. Space movement joints at a maximum of 10 feet (3 m) with no joints allowed within 24 inches (605 mm) of corner or intersection. Where lapped expansion provisions cannot be used or would not be sufficiently waterproof, form expansion joints of intermeshing hooked flanges, not less than 1 inch (25 mm) deep, filled with mastic sealant (concealed within joints).

3.4 ERECTION TOLERANCES

- A. Installation Tolerances: Shim and align metal composite material wall panel units within installed tolerance of 1/4 inch in 20 feet (6 mm in 6 m), non-accumulative, on level, plumb, and location lines as indicated, and within 1/8-inch (3-mm) offset of adjoining faces and of alignment of matching profiles.

3.5 FIELD QUALITY CONTROL

- A. Testing Agency: Owner will engage a qualified independent testing agency to perform field tests and inspections.
- B. Water-Spray Test: After installation, test area of assembly as directed by Architect for water penetration according to AAMA 501.2.
- C. Manufacturer's Field Service: Engage a factory-authorized service representative to test and inspect completed metal composite material wall panel installation, including accessories.
- D. Metal composite material wall panels will be considered defective if they do not pass test and inspections.
- E. Additional tests and inspections, at Contractor's expense, are performed to determine compliance of replaced or additional work with specified requirements.
- F. Prepare test and inspection reports.

3.6 CLEANING AND PROTECTION

- A. Remove temporary protective coverings and strippable films, if any, as metal composite material panels are installed, unless otherwise indicated in manufacturer's written installation instructions. On completion of metal composite material panel installation, clean finished surfaces as recommended by metal composite material panel manufacturer. Maintain in a clean condition during construction.
- B. After metal composite material panel installation, clear weep holes and drainage channels of obstructions, dirt, and sealant.
- C. Replace metal composite material panels that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

3.7 WASTE MANAGEMENT

- A. Coordinate with Section 01 74 19.
 - 1. Separate and recycle cut-offs and waste materials and material packaging in accordance with Waste Management Plan and to the maximum extent economically feasible and place in designated areas for recycling.
 - 2. Set aside and protect materials suitable for reuse and/or remanufacturing.
 - 3. Separate and fold up metal banding; flatten and place along with other metal scrap for recycling in designated area.

END OF SECTION 07 42 13

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