

**ADDENDUM NO. 2**

New Castle County Vocational Technical School District  
Hodgson Vo-Tech High School  
Bid Package E - Fieldhouse, Athletic Fields, and Storage Buildings

December 26, 2025  
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**THE BID DUE DATE HAS BEEN EXTENDED**

**Bids will be received until 3:00 PM local time on Wednesday, January 14, 2026.**

**THE LAST DAY FOR QUESTIONS HAS BEEN EXTENDED**

**The last day for questions is Tuesday, January 6, 2026.**

NOTICE: Attach this addendum to the project manual for this project. It modifies and becomes a part of the contract documents. Work or materials not specifically mentioned herein are to be described in the main body of the specifications and as shown in the drawings. Bidders shall acknowledge receipt of this addendum on the space provided on the Bid Form. Failure to do so may subject the bidder to disqualification.

Whenever this Addendum modifies a portion of the Project Manual added information is shown as **Bold** and deleted information is shown as ~~strikethrough~~.

The contract documents for the above-mentioned project, Project Manual dated November 4, 2025, are amended as follows:

**GENERAL CLARIFICATIONS:**

1. Bid Documents may be viewed and downloaded at EDiS' FTP site. To obtain access to the FTP site, please submit your request via email to Jackie McKee at [jmckee@ediscompany.com](mailto:jmckee@ediscompany.com).
2. Physical copies of bids will be received at the office of New Castle County Vo-Tech School District, 1417 Newport Road, Wilmington, DE 19804 until **3:00 PM local time on Wednesday, January 14, 2026**. The outer envelope should clearly indicate: "NEW CASTLE COUNTY VOCATIONAL TECHNICAL SCHOOL DISTRICT - HODGSON VO-TECH BID PACKAGE E - FIELDHOUSE, ATHLETIC FIELDS, AND STORAGE BUILDINGS CONTRACT BPE-\_\_\_\_\_ SEALED BID – DO NOT OPEN." Bids may be hand delivered or mailed/shipped. Electronic bids will not be accepted. Bidder assumes full responsibility for timely delivery at location designated for receipt of bids. Any bids received after the stated time will be returned unopened.

**QUESTIONS AND ANSWERS:**

1. The pre-bid RFI questions and answers log is attached for your use.



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**MODIFICATIONS TO SPECIFICATIONS:**

1. SECTION 000115 – LIST OF DRAWINGS - DELETE this section in its entirety and INSERT revised sections, annotated Addendum No. 2 and dated December 26, 2025.
2. SECTION 011100 – SUMMARY OF WORK – DELETE this section in its entirety and INSERT revised section, annotated Addendum No. 2 and dated December 26, 2025.
3. SECTION 013216 – CONSTRUCTION SCHEDULE – DELETE this section in its entirety and INSERT revised section, annotated Addendum No. 2 and dated December 26, 2025.
  - Added bidder schedule.
4. SECTION 11 40 00 - FOOD SERVICE EQUIPMENT– DELETE this section in its entirety and INSERT revised section, annotated Addendum No. 2 and dated December 26, 2025.

**MODIFICATIONS TO DRAWINGS:**

1. SHEET FA-002 ARCHITECTURAL SITE PLAN & SITE DETAILS – DELETE this sheet in its entirety and INSERT revised sheet, annotated Addendum No. 2 dated December 26, 2025.
  - REVISE E7 & F7 / FA-002
2. SHEET FA-301 FIELDHOUSE – BUILDING SECTIONS – DELETE this sheet in its entirety and INSERT revised sheet, annotated Addendum No. 2 dated December 26, 2025.
  - Add T/MAS 22'-0" to B5 & D5 /FA-301
3. SHEET FA-312 FIELDHOUSE – WALL SECTIONS – DELETE this sheet in its entirety and INSERT revised sheet, annotated Addendum No. 2 dated December 26, 2025.
  - Revise A5/Fa-312. Revise T/Stud Elevation To 22'-8" As Shown
4. SHEET FA-313 FIELDHOUSE – WALL SECTIONS – DELETE this sheet in its entirety and INSERT revised sheet, annotated Addendum No. 2 dated December 26, 2025.
  - Revise A2/Fa-312. Revise T/Mas Elevation To 22'-0"
5. SHEET FA-704 VISITOR BLEACHERS PLANS & DETAILS – DELETE this sheet in its entirety and INSERT revised sheet, annotated Addendum No. 2 dated December 26, 2025.
  - Revise A5/Fa-704. Add Underdrainage and Asphalt Paving and Slope



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**LIST OF ATTACHMENTS:**

Pre-Bid RFI Questions and Answers Log  
Section 000115 List of Drawings  
Section 011100 Summary of Work  
Section 013216 Construction Schedule  
Section 11 40 00 Food Service Equipment  
FA-002 Architectural Site Plan & Site Details  
FA-301 Fieldhouse – Building Sections  
FA-312 Fieldhouse – Wall Sections  
FA-313 Fieldhouse – Wall Sections  
FA-704 Visitor Bleachers Plans & Details

**End of Addendum No. 2**

| RFI No. | Date     | Submitted By           | Sheet No. | Detail/Section    | Question                                                                                                                                                                                                                                                                                                                                                                       | EDiS Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Design Team Response                                                                                                                                                                         | Addendum |
|---------|----------|------------------------|-----------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 005     | 12/5/25  | BCI                    |           | 01 11 00/11 40 00 | E-06 General Trades includes spec section 114000 Food Service Equipment. There are no specifications for this and everything we see in the concession area is NIC                                                                                                                                                                                                              | Section 114000 is included in addendum 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                              | 2        |
| 013     | 12/10/25 | Degli Obizzi           |           |                   | Please provide a preliminary construction schedule                                                                                                                                                                                                                                                                                                                             | Schedule is included in addendum 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                              | 2        |
| 052     | 12/20/25 | RE Pierson             |           |                   | According to the spec this project requires a 7% DBE requirement. Since the federal government has stop the DBE program for now, who qualifies as a DBE? Does the State of Delaware still see those listed on the Civil Rights Compliance Reporting as DBE qualified?                                                                                                          | For this Pilot Program, the DBE requirements remain as described in the documents. A contractor would need to be certified as a DBE by either OSD (state of DE) or DNREC. Since DNREC must follow USDOT requirements; many of the previously certified DBE contractors would need to get re-certified with DNREC or go to OSD and register for DBE certification. If you are a DBE contractor and are not registered with DelDOT or the Office of Supply Diversity State of Delaware, you can contact Shavonne White at OSD and she will help you understand the procedure and work to get you certified. Shavonne can be reached at 302-577-8497 or shavonne.white@delaware.gov. |                                                                                                                                                                                              | 2        |
| 053     | 12/20/25 | RE Pierson             |           |                   | Per scope item 14 on page 463, it says that the foundation walls are to be filled with suitable filler subgrade material. Please provide a spec for this material.                                                                                                                                                                                                             | Satisfactory Soil Materials: ASTM D 2487 soil classification groups GW, GP, GM, SW, SP, SC, and SM; free of rock or gravel larger than 2 inches in any dimension, debris, waste, frozen materials, vegetation and other deleterious matter. Satisfactory soil materials shall conform to Maryland State Highway Administration Section 916.01, Select Borrow.                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                              | 2        |
| 054     | 12/20/25 | North East Contractors |           |                   | Is there a chance of a bid extension? A lot of offices are closed through the holidays, and I am already getting some push back on getting numbers in time.                                                                                                                                                                                                                    | See Addendum #2 for revised bid date.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                              | 2        |
| 056     | 12/20/25 | North East Contractors |           | 01 11 00          | BP E-06 SOW item number 34 and 82 mention to provide all site furnishings. What is to be included in that?                                                                                                                                                                                                                                                                     | Spec Section 12 93 00 will be provided by Contract E-02 Sitework and Utilities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                              | 2        |
| 058     | 12/20/25 | Advantech              |           | 28 10 00          | 28 10 00 – Intrusion Detection System - 2.01<br>Please confirm which Honeywell System is installed in the main building.                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Honeywell Vista 250-BPT                                                                                                                                                                      | 2        |
| 061     | 12/22/25 | Assurance Media        |           | 01 11 00          | Scope Summary Page # 011100-69 has the following: 11. Provide and install the racks, switches, uninterrupted power supplies etc. for a complete installation. Note #1 from Detail #5 on Drawing FA-T137 has the following: OWNER / DTI SHALL PROVIDE AND INSTALL SWITCHES.                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | See Section 272000. Network Switches - owner furnished, contractor installed. Wireless Access Points - owner furnished contractor installed. UPS - contractor furnished ontractor installed. | 2        |
| 062     | 12/22/25 | Assurance Media        |           | 01 11 00          | Scope Summary Page # 011100-69 has the following: 12. Coordinate all WAP's as per the specifications if supplied by the owner, install if not supplied provide and install under this contract. Please confirm owner or others are providing the WAPs. Note 3. C. from Detail #3 on Drawing FA-T000: OWNER SHALL SUPPLY WIRELESS ACCESS POINTS FOR THIS CONTRACTOR TO INSTALL. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | See Section 272000. Network Switches - owner furnished, contractor installed. Wireless Access Points - owner furnished contractor installed. UPS - contractor furnished ontractor installed. | 2        |
| 063     | 12/22/25 | Assurance Media        |           | 01 11 00          | Scope Summary Page # 011100-71 has the following: 37. Complete Stadium Sound Systems as per Design Documents. Please provide a complete Specification Section and Detailed Drawings for the Stadium Sound System as we have found none in the Bid documents.                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A complete stadium sound system is not included in the FA-T series documents as of this time.                                                                                                | 2        |

| RFI No. | Date     | Submitted By    | Sheet No. | Detail/Section | Question                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | EDiS Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Design Team Response                                                                                                                                                                                                                                                                                                                                                              | Addendum |
|---------|----------|-----------------|-----------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 066     | 12/22/25 | Assurance Media |           | 01 11 00       | Please confirm – Electrical Scope Summary #36 on page 011100-66<br>36. Coordinate closely with the work of the Special Systems contractor. This contract (electrical) provides all infrastructure, conduit and raceways required for the Special Systems work. Provide pull strings and boxes for all systems. (voice, data, communication, fire alarm, AV systems, Audio systems, and public address system, clock system etc.) Include all required sleeving, sealing and fire sealing for raceways and conduits through walls, floors, ceilings etc. for this work.<br>Special Systems Scope Summary #25 on Page 25. Provide penetrations through walls, floors, etc., including cutting, patching and fire safing.<br>Question – With #36 in the Electrical Scope Summary is then #25 in the Special System Scope Summary not required? | Contract E-16 Electrical shall provide the work described in Item 36. <i>Coordinate closely with the work of the Special Systems contractor. This contract (electrical) provides all infrastructure, conduit and raceways required for the Special Systems work. Provide pull strings and boxes for all systems. (voice, data, communication, fire alarm, AV systems, Audio systems, and public address system, clock system etc.) Include all required sleeving, sealing and fire sealing for raceways and conduits through walls, floors, ceilings etc. for this work.</i> Contract E-17 Special Systems item #25 would only apply to any openings that are created by the Special Systems contractor that are unrelated to the main infrastructure. |                                                                                                                                                                                                                                                                                                                                                                                   | 2        |
| 067     | 12/22/25 | Assurance Media |           | 01 11 00       | Scope Summary Page # 011100-69 has the following: 1. Provide a complete Special System package as to include but not limited to, structured cabling, network equipment, AV systems, intrusion detection, access controls and video surveillance. Please clarify and provide detailed specifications and drawings for the referenced AV systems.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A complete stadium sound system is not included in the FA-T series documents as of this time.                                                                                                                                                                                                                                                                                     | 2        |
| 068     | 12/22/25 | Assurance Media |           | 01 11 00       | Scope Summary Page # 011100-70 has the following: 22. This contractor shall supply communication wiring from the intercom/public address amplifiers to the source (MDF/IDF patch panel) including terminations on both ends. Location of amplifiers to be coordinated with the documents and the Construction Manager prior to installation. Contractor should assume (3) amplifiers, one located in each MDF/IDF. Please confirm if there is to be any intercom / public address components provided and installed by the E-17 Special Systems contract as none are shown. If they are please provide specification section and drawings outlining what is to be installed where.                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Intercom is not included to the out-buildings.                                                                                                                                                                                                                                                                                                                                    | 2        |
| 069     | 12/22/25 | Assurance Media |           |                | Are there to be any Clocks provided and installed by the E-17 Special Systems contract as none are shown. If there are please provide specification section and drawings outlining what is to be installed where.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Clocks are not included in the out-buildings.                                                                                                                                                                                                                                                                                                                                     | 2        |
| 072     | 12/22/25 | Assurance Media | FA-T101   |                | Drawing FA-T101: Please Confirm that each of the three UPS units shown on this drawing and marked as NIC are not to be provided and installed by the E-17 Special Systems contractor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Drawing is incorrect. UPS units shall be provided and installed by this contractor.                                                                                                                                                                                                                                                                                               | 2        |
| 073     | 12/22/25 | Assurance Media | FA-T500   |                | Drawing FA-T500, Detail #2 Wireless Access Points, Note #8 has the following: PROVIDE AND INSTALL A WIRELESS ACCESS POINT ON EACH SITE LIGHT POLE WITH A CCTV CAMERA FOR A TOTAL OF SEVEN LIGHT POLE WAPS. Please provide Exterior Wap locations on drawing FA-T100 Technology Site Drawing. Please specify what specific cabling is to go to each of these WAP locations. If fiber is to be utilized to these locations will others be providing some sort of cabinet or NEMA enclosure for network equipment and fiber terminations etc...?                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | There are two light poles with WAPs noted on Sheet FA-T100. Disregard Note 8, Detail 2 on Sheet FA-T500. Owner shall provide input if Gamechanger Copper cable is acceptable to light poles or if the specified powered fiber should be used. All equipment should be included for a complete and active installation. (Copper cables, powered fiber, modules, enclosures, etc.,) | 2        |

| RFI No. | Date     | Submitted By          | Sheet No. | Detail/Section | Question                                                                                                                                                                                                                                 | EDiS Response                                                                                                                                                                                                                                                               | Design Team Response | Addendum |
|---------|----------|-----------------------|-----------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------|
| 075     | 12/23/25 | Brandywine Contactors |           | 11 40 00       | After reading addendum #1 I see section 11400 Food Service Equipment has been added. Drawings shown this reach in refrigerators as NIC. Just confirming whether or not we have to furnish and set in place or if these are by the owner. | Please refer to revised section 11400 in this Addendum #2. Contract E-06 provides all equipment as per this spec section. This includes any blocking, set up and coordination with other trades. Electrical and plumbing contracts to review and provide required services. |                      | 2        |
| 084     | 12/24/25 | Corrado American      |           |                | Please confirm Contract E-02 now owns dugout equipment.                                                                                                                                                                                  | Confirmed; Contract E-02 to provide the work of Section 116833                                                                                                                                                                                                              |                      | 2        |

**SECTION 000115 - LIST OF DRAWINGS**

All previously issued Bid Packages and Addendum are to be included by reference.

| DRWG NO.           | DRAWING NAME                                              | BID PACKS | ISSUE DATE | LATEST REV. DATE |
|--------------------|-----------------------------------------------------------|-----------|------------|------------------|
| General – Volume 1 |                                                           |           |            |                  |
| G-001              | Cover Sheet - Volume 1 (Addendum No. 1)                   | E         | 11/4/25    | 12/22/25         |
| G-002              | <del>Archival Drawing List</del> Attachments A, B, & C    | E         | 11/4/25    |                  |
| G-003              | Life Safety Plan - Fieldhouse                             | E         | 11/4/25    |                  |
| G-005              | Life Safety Plan - Storage Buildings                      | E         | 11/4/25    |                  |
| G-006              | Life Safety Plan – Bleachers                              | E         | 11/4/25    |                  |
| Demolition         |                                                           |           |            |                  |
| AD-101             | Demolition Plan – Existing Building Site Plan             | E         | 11/4/25    |                  |
| AD-102             | Demolition Plan – Existing Building 1 <sup>st</sup> Floor | E         | 11/4/25    |                  |
| AD-103             | Demolition Plan – Existing Building 2 <sup>nd</sup> Floor | E         | 11/4/25    |                  |
| AD-104             | Demolition Plan – Existing Gym & Greenhouse               | E         | 11/4/25    |                  |
| Civil              |                                                           |           |            |                  |
| C001               | Index Plan                                                | E         | 11/4/25    |                  |
| C100               | Existing Conditions and Demolition Plan                   | E         | 11/4/25    |                  |
| C101               | Existing Conditions and Demolition Plan                   | E         | 11/4/25    |                  |
| C102               | Existing Conditions and Demolition Plan                   | E         | 11/4/25    |                  |
| C103               | Existing Conditions and Demolition Plan                   | E         | 11/4/25    |                  |
| C104               | Existing Conditions and Demolition Plan                   | E         | 11/4/25    |                  |
| C105               | Existing Conditions and Demolition Plan                   | E         | 11/4/25    |                  |
| C106               | Existing Conditions and Demolition Plan                   | E         | 11/4/25    |                  |
| C107               | Existing Conditions and Demolition Plan                   | E         | 11/4/25    |                  |
| C110               | Site Layout and Utility Plan (Addendum No. 1)             | E         | 11/4/25    | 12/22/25         |
| C111               | Site Layout and Utility Plan                              | E         | 11/4/25    |                  |
| C112               | Site Layout and Utility Plan                              | E         | 11/4/25    |                  |
| C113               | Site Layout and Utility Plan (Addendum No. 1)             | E         | 11/4/25    | 12/22/25         |
| C114               | Site Layout and Utility Plan                              | E         | 11/4/25    |                  |
| C115               | Site Layout and Utility Plan                              | E         | 11/4/25    |                  |
| C116               | Site Layout and Utility Plan                              | E         | 11/4/25    |                  |
| C117               | Site Layout and Utility Plan                              | E         | 11/4/25    |                  |
| C120               | Grading Plan                                              | E         | 11/4/25    |                  |
| C121               | Grading Plan (Addendum No. 1)                             | E         | 11/4/25    | 12/22/25         |
| C122               | Grading Plan                                              | E         | 11/4/25    |                  |
| C123               | Grading Plan                                              | E         | 11/4/25    |                  |
| C124               | Grading Plan                                              | E         | 11/4/25    |                  |
| C125               | Grading Plan                                              | E         | 11/4/25    |                  |
| C126               | Grading Plan                                              | E         | 11/4/25    |                  |

| DRWG NO. | DRAWING NAME                                             | BID PACKS | ISSUE DATE | LATEST REV. DATE |
|----------|----------------------------------------------------------|-----------|------------|------------------|
| C127     | Grading Plan                                             | E         | 11/4/25    |                  |
| C127A    | Grading Plan                                             | E         | 11/4/25    |                  |
| C130     | Storm Drainage Profiles                                  | E         | 11/4/25    |                  |
| C131     | Storm Drainage Profiles                                  | E         | 11/4/25    |                  |
| C132     | Storm Drainage Profiles                                  | E         | 11/4/25    |                  |
| C133     | Storm Drainage Profiles                                  | E         | 11/4/25    |                  |
| C134     | Storm Drainage Profiles                                  | E         | 11/4/25    |                  |
| C135     | Storm Drainage Profiles                                  | E         | 11/4/25    |                  |
| C136     | Storm Drainage Profiles                                  | E         | 11/4/25    |                  |
| C137     | Storm Drainage Profiles                                  | E         | 11/4/25    |                  |
| C201     | Cover Sheet and General Notes                            | E         | 11/4/25    |                  |
| C202     | Overall Construction Site Phasing                        | E         | 11/4/25    |                  |
| C203     | Overall Pre-Construction Site Stormwater Management Plan | E         | 11/4/25    |                  |
| C204     | Pre-Construction Site Stormwater Management Plan         | E         | 11/4/25    |                  |
| C205     | Pre-Construction Site Stormwater Management Plan         | E         | 11/4/25    |                  |
| C206     | Pre-Construction Site Stormwater Management Plan         | E         | 11/4/25    |                  |
| C207     | Pre-Construction Site Stormwater Management Plan         | E         | 11/4/25    |                  |
| C208     | Pre-Construction Site Stormwater Management Plan         | E         | 11/4/25    |                  |
| C209     | Pre-Construction Site Stormwater Management Plan         | E         | 11/4/25    |                  |
| C210     | Pre-Construction Site Stormwater Management Plan         | E         | 11/4/25    |                  |
| C211     | Pre-Construction Site Stormwater Management Plan         | E         | 11/4/25    |                  |
| C212     | Overall Construction Site Stormwater Management Plan     | E         | 11/4/25    |                  |
| C213     | Construction Site Stormwater Management Plan             | E         | 11/4/25    |                  |
| C214     | Construction Site Stormwater Management Plan             | E         | 11/4/25    |                  |
| C215     | Construction Site Stormwater Management Plan             | E         | 11/4/25    |                  |
| C216     | Construction Site Stormwater Management Plan             | E         | 11/4/25    |                  |
| C217     | Construction Site Stormwater Management Plan             | E         | 11/4/25    |                  |
| C218     | Construction Site Stormwater Management Plan             | E         | 11/4/25    |                  |
| C219     | Construction Site Stormwater Management Plan             | E         | 11/4/25    |                  |
| C220     | Construction Site Stormwater Management Plan             | E         | 11/4/25    |                  |
| C221     | Construction Site Details and Notes                      | E         | 11/4/25    |                  |
| C222     | Construction Site Details and Notes                      | E         | 11/4/25    |                  |
| C223     | Construction Site Details and Notes                      | E         | 11/4/25    |                  |
| C224     | Construction Site Details and Notes                      | E         | 11/4/25    |                  |
| C230     | Post-Construction Stormwater Management Plan Facility #1 | E         | 11/4/25    |                  |
| C231     | Post-Construction Stormwater Management Plan Facility #1 | E         | 11/4/25    |                  |
| C232     | Post-Construction Stormwater Management Plan Facility #2 | E         | 11/4/25    |                  |
| C233     | Post-Construction Stormwater Management Plan Facility #2 | E         | 11/4/25    |                  |
| C234     | Post-Construction Stormwater Management Plan Facility #3 | E         | 11/4/25    |                  |
| C235     | Post-Construction Stormwater Management Plan Facility #3 | E         | 11/4/25    |                  |
| C300     | Record Landscape Plan                                    | E         | 11/4/25    |                  |

| DRWG NO.              | DRAWING NAME                                         | BID PACKS | ISSUE DATE | LATEST REV. DATE |
|-----------------------|------------------------------------------------------|-----------|------------|------------------|
| C350                  | Sanitary Sewer Index Plan                            | E         | 11/4/25    |                  |
| C351                  | Sanitary Sewer Plan and Profiles                     | E         | 11/4/25    |                  |
| C352                  | Sanitary Sewer Plan and Profiles                     | E         | 11/4/25    |                  |
| C353                  | Sanitary Sewer Plan and Profiles                     | E         | 11/4/25    |                  |
| C354                  | Sanitary Sewer Plan and Profiles                     | E         | 11/4/25    |                  |
| C355                  | Sanitary Sewer Details                               | E         | 11/4/25    |                  |
| C400                  | Fire Marshal Record Type Plan                        | E         | 11/4/25    |                  |
| C401                  | Fire Marshal Record Type Plan                        | E         | 11/4/25    |                  |
| C402                  | Fire Marshal Record Type Plan                        | E         | 11/4/25    |                  |
| C403                  | Fire Marshal Record Type Plan                        | E         | 11/4/25    |                  |
| C404                  | Fire Marshal Record Type Plan                        | E         | 11/4/25    |                  |
| C500                  | Site Construction Details                            | E         | 11/4/25    |                  |
| C501                  | Site Construction Details                            | E         | 11/4/25    |                  |
| C502                  | Site Construction Details                            | E         | 11/4/25    |                  |
| C520                  | Athletic Field Details and Sections                  | E         | 11/4/25    |                  |
| C521                  | Athletic Field Details and Sections                  | E         | 11/4/25    |                  |
| C522                  | Athletic Field Details and Sections                  | E         | 11/4/25    |                  |
| C523                  | Athletic Field Details and Sections                  | E         | 11/4/25    |                  |
| C524                  | Athletic Field Details and Sections (Addendum No. 1) | E         | 11/4/25    | 12/22/25         |
|                       |                                                      |           |            |                  |
| Structural – Volume 2 |                                                      |           |            |                  |
| G-001A                | Cover Sheet – Volume 2 (Addendum No. 1)              | E         | 11/4/25    | 12/22/25         |
| FS-001                | Cover Sheet                                          | E         | 11/4/25    |                  |
| FS-002                | General Notes                                        | E         | 11/4/25    |                  |
| FS-003                | General Notes                                        | E         | 11/4/25    |                  |
| FS-004                | Project Schedules                                    | E         | 11/4/25    |                  |
| FS-101                | Foundation Plan – Fieldhouse                         | E         | 11/4/25    |                  |
| FS-102                | Roof Framing Plan - Fieldhouse                       | E         | 11/4/25    |                  |
| FS-103                | Storage Building E1                                  | E         | 11/4/25    |                  |
| FS-104                | Storage Building E2 &E3                              | E         | 11/4/25    |                  |
| FS-105                | Storage Building E4 &E5                              | E         | 11/4/25    |                  |
| FS-106                | Storage Building E6 & E7                             | E         | 11/4/25    |                  |
| FS-501                | Typical Foundation Details                           | E         | 11/4/25    |                  |
| FS-502                | Typical Foundation Details                           | E         | 11/4/25    |                  |
| FS-503                | Foundation Details                                   | E         | 11/4/25    |                  |
| FS-504                | Foundation Details                                   | E         | 11/4/25    |                  |
| FS-511                | Typical Framing Details                              | E         | 11/4/25    |                  |
| FS-512                | Typical Framing Details                              | E         | 11/4/25    |                  |
| FS-513                | Typical Framing Details                              | E         | 11/4/25    |                  |
| FS-514                | Framing Sections                                     | E         | 11/4/25    |                  |
| FS-515                | Framing Sections                                     | E         | 11/4/25    |                  |

| DRWG NO.      | DRAWING NAME                                                       | BID PACKS | ISSUE DATE     | LATEST REV. DATE |
|---------------|--------------------------------------------------------------------|-----------|----------------|------------------|
| Architectural |                                                                    |           |                |                  |
| FA-001        | Accessibility Details                                              | E         | 11/4/25        |                  |
| <b>FA-002</b> | <b>Architectural Site Plan &amp; Site Details (Addendum No. 2)</b> | <b>E</b>  | <b>11/4/25</b> | <b>12/26/25</b>  |
| FA-003        | Exterior Wall Assemblies and Site Details                          | E         | 11/4/25        |                  |
| FA-004        | Abbreviations, Legends, Partition Types, Notes & Details           | E         | 11/4/25        |                  |
| FA-005        | Stadium Turf Field Graphics (Addendum No. 1)                       | E         |                | 12/22/25         |
| FA-101        | Fieldhouse - Floor Plan                                            | E         | 11/4/25        |                  |
| FA-131        | Fieldhouse - First Floor Reflected Ceiling Plan & Ceiling Details  | E         | 11/4/25        |                  |
| FA-151        | Fieldhouse - Finish Plan                                           | E         | 11/4/25        |                  |
| FA-181        | Fieldhouse - Roof Plan                                             | E         | 11/4/25        |                  |
| FA-201        | Fieldhouse - Exterior Building Elevations                          | E         | 11/4/25        |                  |
| <b>FA-301</b> | <b>Fieldhouse - Building Sections (Addendum No. 2)</b>             | <b>E</b>  | <b>11/4/25</b> | <b>12/26/25</b>  |
| FA-311        | Fieldhouse - Wall Sections                                         | E         | 11/4/25        |                  |
| <b>FA-312</b> | <b>Fieldhouse - Wall Sections (Addendum No. 2)</b>                 | <b>E</b>  | <b>11/4/25</b> | <b>12/26/25</b>  |
| <b>FA-313</b> | <b>Fieldhouse - Wall Sections (Addendum No. 2)</b>                 | <b>E</b>  | <b>11/4/25</b> | <b>12/26/25</b>  |
| FA-431        | Enlarged Plans - Toilet Rooms                                      | E         | 11/4/25        |                  |
| FA-441        | Interior Elevations                                                | E         | 11/4/25        |                  |
| FA-511        | Main Entrance Sign Details                                         | E         | 11/4/25        |                  |
| FA-512        | External Signage Main Building Patio                               | E         | 11/4/25        |                  |
| FA-521        | Interior Doors & Misc. Details                                     | E         | 11/4/25        |                  |
| FA-531        | Hollow Metal Door Details                                          | E         | 11/4/25        |                  |
| FA-541        | Coiling Door Details                                               | E         | 11/4/25        |                  |
| FA-542        | Coiling Door Details                                               | E         | 11/4/25        |                  |
| FA-543        | Coiling Door Details                                               | E         | 11/4/25        |                  |
| FA-561        | Louver Types and Details                                           | E         | 11/4/25        |                  |
| FA-571        | Hollow Metal Door Details                                          | E         | 11/4/25        |                  |
| FA-581        | Fieldhouse SF & Louver Schedule & Details                          | E         | 11/4/25        |                  |
| FA-591        | Roofing Details                                                    | E         | 11/4/25        |                  |
| FA-601        | Door Schedule, Door & Frame Types                                  | E         | 11/4/25        |                  |
| FA-701        | Home Bleachers Plan                                                | E         | 11/4/25        |                  |
| FA-702        | Press Box Home                                                     | E         | 11/4/25        |                  |
| FA-703        | Home Bleachers - Details                                           | E         | 11/4/25        |                  |
| <b>FA-704</b> | <b>Visitor Bleachers – Plans &amp; Details (Addendum No. 2)</b>    | <b>E</b>  | <b>11/4/25</b> | <b>12/26/25</b>  |
| FA-801        | Building E1 – Alternate 3                                          | E         | 11/4/25        |                  |
| FA-802        | Building E2 & E3                                                   | E         | 11/4/25        |                  |
| FA-803        | Building E4 – Alternate 4                                          | E         | 11/4/25        |                  |
| FA-803A       | Building E4 Wall Sections                                          | E         | 11/4/25        |                  |
| FA-804        | Building E5                                                        | E         | 11/4/25        |                  |
| FA-804A       | Building E5 Wall Sections                                          | E         | 11/4/25        |                  |
| FA-805        | Building E6 & E7                                                   | E         | 11/4/25        |                  |
| FA-805A       | Building 6 & 7 Sections                                            | E         | 11/4/25        |                  |

| DRWG NO.        | DRAWING NAME                                              | BID PACKS | ISSUE DATE | LATEST REV. DATE |
|-----------------|-----------------------------------------------------------|-----------|------------|------------------|
| Mechanical      |                                                           |           |            |                  |
| FA-M001         | Legends & Abbreviations – HVAC (Addendum No. 1)           | E         | 11/4/25    | 12/22/25         |
| FA-M101         | First Floor – Fieldhouse – HVAC                           | E         | 11/4/25    |                  |
| FA-MP101        | First Floor – Fieldhouse – Mechanical Piping              | E         | 11/4/25    |                  |
| FA-M181         | Roof Plan – Fieldhouse – HVAC                             | E         | 11/4/25    |                  |
| FA-M301         | Details – HVAC                                            | E         | 11/4/25    |                  |
| FA-M302         | Details – HVAC                                            | E         | 11/4/25    |                  |
| FA-M303         | Details – HVAC                                            | E         | 11/4/25    |                  |
| FA-M304         | Details – HVAC                                            | E         | 11/4/25    |                  |
| FA-M401         | Automatic Temperature Controls                            | E         | 11/4/25    |                  |
| FA-M402         | Automatic Temperature Controls                            | E         | 11/4/25    |                  |
| FA-M403         | Automatic Temperature Controls                            | E         | 11/4/25    |                  |
| FA-M501         | Schedules                                                 | E         | 11/4/25    |                  |
| Fire Protection |                                                           |           |            |                  |
| FA-F101         | Fire Protection Zoning Plan - Fieldhouse                  | E         | 11/4/25    |                  |
| FA-F302         | Details - Fire Protection                                 | E         | 11/4/25    |                  |
| Plumbing        |                                                           |           |            |                  |
| FA-P001         | Legends & Abbreviations - Plumbing                        | E         | 11/4/25    |                  |
| FA-P101         | First Floor – Fieldhouse – Plumbing                       | E         | 11/4/25    |                  |
| FA-P181         | Roof Plan – Fieldhouse – Plumbing                         | E         | 11/4/25    |                  |
| FA-P301         | Details – Plumbing                                        | E         | 11/4/25    |                  |
| FA-P302         | Details – Plumbing                                        | E         | 11/4/25    |                  |
| FA-P303         | Details – Plumbing                                        | E         | 11/4/25    |                  |
| FA-P401         | Risers – Plumbing                                         | E         | 11/4/25    |                  |
| FA-P401         | Risers - Plumbing                                         | E         | 11/4/25    |                  |
| FA-P501         | Schedules – Plumbing                                      | E         | 11/4/25    |                  |
| Electrical      |                                                           |           |            |                  |
| FA-E001         | Electrical Legend, Schedules & Abbreviations              | E         | 11/4/25    |                  |
| FA-E002         | Lighting Fixture Schedule                                 | E         | 11/4/25    |                  |
| FA-E003         | Electrical Site Plan                                      | E         | 11/4/25    |                  |
| FA-E004         | Electrical Site Plan                                      | E         | 11/4/25    |                  |
| FA-E005         | Electrical Site Plan                                      | E         | 11/4/25    |                  |
| FA-E006         | Electrical Site Plan                                      | E         | 11/4/25    |                  |
| FA-E101         | Fieldhouse – Power, Lighting and Fire Alarm               | E         | 11/4/25    |                  |
| FA-E102         | Building E1,E4,&E5 – Power and Lighting                   | E         | 11/4/25    |                  |
| FA-E103         | Building E2, E3, E6, E6-S, E7 & E7-S – Power and Lighting | E         | 11/4/25    |                  |
| FA-E501         | Schematic Power Riser Diagram                             | E         | 11/4/25    |                  |
| FA-E502         | Schematic Fire Alarm Riser Diagram                        | E         | 11/4/25    |                  |

| DRWG NO. | DRAWING NAME                                            | BID PACKS | ISSUE DATE | LATEST REV. DATE |
|----------|---------------------------------------------------------|-----------|------------|------------------|
| FA-E601  | Panel Schedules                                         | E         | 11/4/25    |                  |
| FA-E602  | Panel Schedules                                         | E         | 11/4/25    |                  |
| FA-E603  | Mechanical Equipment Connection Schedule                | E         | 11/4/25    |                  |
| FA-E701  | Electrical Details                                      | E         | 11/4/25    |                  |
| FA-E702  | Electrical Details                                      | E         | 11/4/25    |                  |
| FA-E703  | Electrical Details                                      | E         | 11/4/25    |                  |
| FA-E704  | Electrical Details                                      | E         | 11/4/25    |                  |
| FA-E705  | Electrical Details                                      | E         | 11/4/25    |                  |
| FA-E706  | Electrical Details                                      | E         | 11/4/25    |                  |
| FA-E707  | Electrical Details                                      | E         | 11/4/25    |                  |
| FA-E708  | Electrical Details                                      | E         | 11/4/25    |                  |
| FA-E709  | Electrical Details                                      | E         | 11/4/25    |                  |
|          |                                                         |           |            |                  |
|          | Technology And Security                                 |           |            |                  |
| FA-T000  | Symbols And Notes                                       | E         | 11/4/25    |                  |
| FA-T100  | Site Plan                                               | E         | 11/4/25    |                  |
| FA-T101  | Building E1, E4, & E5 - Technology                      | E         | 11/4/25    |                  |
| FA-T102  | Building E2, E3, E6, E7 - Technology                    | E         | 11/4/25    |                  |
| FA-T137  | Field House Technology Plan                             | E         | 11/4/25    |                  |
| FA-T500  | Telecom Wiring                                          | E         | 11/4/25    |                  |
| FA-T501  | Pathways And Faceplates                                 | E         | 11/4/25    |                  |
| FA-TY000 | Security Symbols and Notes                              | E         | 11/4/25    |                  |
| FA-TY100 | Site Security Plan                                      | E         | 11/4/25    |                  |
| FA-TY101 | Building E1, E4, & E5 - Security                        | E         | 11/4/25    |                  |
| FA-TY102 | Building E2, E3, E6 & E7 - Security                     | E         | 11/4/25    |                  |
| FA-TY137 | Fieldhouse Security Plan                                | E         | 11/4/25    |                  |
| FA-TY500 | Intrusion Detection System                              | E         | 11/4/25    |                  |
| FA-TY501 | Access Control System                                   | E         | 11/4/25    |                  |
| FA-TY502 | Video Surveillance System                               | E         | 11/4/25    |                  |
|          |                                                         |           |            |                  |
| G-001B   | Cover Sheet - Volume 3 (Addendum No. 1)                 | E         | 11/4/25    | 12/22/25         |
| G-002    | Attachments A, B, & C                                   | E         | 11/4/25    |                  |
|          | Attachment "B" Civil and Demolition Clarification Notes | E         | 11/4/25    |                  |
|          | Attachment "C" Final Cleaning Contract Package          | E         | 11/4/25    |                  |
|          |                                                         |           |            |                  |

END OF SECTION

SECTION 011100 - SUMMARY OF WORK

1. RELATED DOCUMENTS

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

2. CONTRACTS

- A. The work will be performed under separate prime contracts managed by the Construction Manager.

3. ALTERATIONS & COORDINATION

- A. Contractor shall be responsible to coordinate their work with the work of others, including, but not limited to, the preparation of general coordination drawings, diagrams and schedules, and control of site utilization, from the beginning of activity, through project close-out and warranty periods.

4. KNOWLEDGE OF CONTRACT REQUIREMENTS

- A. The Contractor and his Subcontractors, Sub-subcontractors and material men shall consult in detail the Contract Documents for instructions and requirements pertaining to the Work, and at his and their cost, shall provide all labor, materials, equipment and services necessary to furnish, install and complete the work in strict conformance with all provisions thereof.
- B. The Contractor will be held to have examined the site of the Work prior to submitting his proposal and informed himself, his Subcontractors, Sub-subcontractors and material men of all existing conditions affecting the execution of the Work.
- C. The Contractor will be held to have examined the Contract Documents and modifications thereto, as they may affect subdivisions of the Work and informed himself, his Subcontractors, Sub-subcontractors and material men of all conditions thereof affecting the execution of the Work.
- D. The Scope of Work for the Contract is not necessarily limited to the description of each section of the Specifications and the illustrations shown on the Drawings. Include all minor items not expressly indicated in the Contract Documents, or as might be found necessary as a result of field conditions, in order to complete the Work as it is intended, without any gaps between the various subdivisions of work.
- E. The Contractor will be held to be thoroughly familiar with all conditions affecting labor in the area of the Project including, but not limited to, Unions, incentive pay, procurements, living, parking and commuting conditions and to have informed his Subcontractors and Sub-subcontractors thereof.

5. CONTRACT DOCUMENTS INFORMATION

- A. The Contract Documents are prepared in accordance with available information as to existing conditions and locations. If, during construction, conditions are revealed at variance with the Contract Documents, notify the Construction Manager immediately, but no more than three (3) days from the day the variance is first known. Failure to give timely notice shall operate to waive any claim Contractor might otherwise have for an adjustment to Contract Time or Sum as a consequence of such variance.
- B. The Specifications determine the kinds and methods of installation of the various materials, the Drawings establish the quantities, dimensions and details of materials, the schedules on the Drawings give the location, type and extent of the materials.
- C. Dimensions given on the Drawings govern scale measurements and large scale drawings govern small scale drawings, except as to anything omitted unless such omission is expressly noted on the large scale drawings.
- D. The techniques or methods of specifying to record requirements varies throughout text, and may include "prescriptive", "open generic/descriptive", "compliance with standards", "performance", "proprietary", or a combination of these. The methods used for specifying one unit of work has no bearing on requirements for another unit of work.
- E. Whenever a material, article or piece of equipment is referred to in the singular number in the Contract Documents, it shall be the same as referring to it in the plural. As many such materials, articles or pieces of equipment shall be provided as are required to complete the Work.
- F. Whenever a material, article or piece of equipment is specified by reference to a governmental, trade association of similar standard, it shall comply with the requirements of the latest publication thereof and amendments thereto in effect on the bid date.
- G. In addition to the requirements of the Contract Documents, Contractor's work shall also comply with applicable standards of the construction industry and those industry standards are made a part of Contract Documents by reference, as if copied directly into Contract Documents, or as if published copies were bound herein.
- H. Where compliance with two (2) or more industry standards, contract requirements, or sets of requirements is specified, and overlapping of those different standards or requirements establishes different or conflicting minimums or levels of quality, then the most stringent requirements, which are generally recognized to be also the most costly, is intended and will be enforced, unless specifically detailed language written into the Contract Documents clearly indicates that a less stringent requirement is to be fulfilled. Refer apparently equal but different requirements, and uncertainties as to which level of quality is more stringent, to Architect for decision before proceeding.
- I. Reference standards referenced directly in Contract Documents or by governing regulations have precedence over non-reference standards which are recognized in industry for applicability of work.

- J. Contractor's bid is based on the complete set of Contract Documents including documents not specifically issued as part of the bid pack but referenced in same.

6. SCOPE OF WORK/GENERAL INFORMATION

- A. A Scope of Work for each contract to be awarded on the project follows in this section. When a Contract has been awarded to a Contractor, the successful Contractor will be listed after the title of the Contract. When no Contract has yet been awarded, no Contractor's name will be listed. Previous Scopes of Work include addendum changes.
- B. Contractor is responsible for performing the work listed in the Summary of Work for his contract. Contractor is also responsible for knowing the work that has been assigned to preceding contracts. No additional compensation or extension of time will be allowed a Contractor due to his ignorance of the work assigned to his Contract or to other contracts which may affect his work. The Contractor is responsible, however, for all items which are covered in the Specifications and Drawings relating to their Contract if not specifically mentioned in the Summary of Work.
- C. The Construction Manager will provide on-site a source for temporary electric, temporary water and portable sanitation facilities only. It is each Contractor's responsibility to make the necessary connections, including all material for temporary electric and water. Please note that utility charges for office trailers will be the responsibility of the individual Contractors.
- D. A dumpster will be provided on site for free use by Contractors to dispose of non-hazardous, common, work-related refuse. Clean-up is the responsibility of each Contractor. Clean up shall be performed on a daily basis. Contractors not complying will be advised in writing and back charged for all costs associated with the cleanup of their work.
- E. Contractors are reminded that there are limited storage areas available on site. Off-site storage will be the responsibility of each individual Contractor.
- F. Office trailer permits off site will be the responsibility of each individual Contractor. On site Contractor's field offices, one (1) per Contractor, if required, will be located as directed by the Construction Manager.
- G. Contractor will be prepared to discuss and submit a detailed project schedule seven (7) days after receipt of Notice to Proceed and to begin its submittal process. The Project Schedule is an integral part of this contract. Certain construction sequences and priorities must take place in order to meet the target dates. Concentrated work periods will occur and each Contractor is responsible to staff the project as required by the current Construction Schedule or as directed by the Construction Manager. Contractor will co operate with the Construction Manager in planning and meeting the required sequences of work and Project Schedule as periodically updated by the Construction Manager.
- H. All bids must include insurance limits in accordance with Article 11 of the Section 007300 SUPPLEMENTARY CONDITIONS.

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- I. Hoisting, scaffolding and material handling is the responsibility of each Contractor, unless otherwise noted.
- J. Contractor will be responsible for layout of its own work. The Construction Manager will provide benchmark and layout of the building line.
- K. Contractor will be responsible to keep clean public roadways soiled by construction traffic on a daily basis. If cleaning is not done, the Construction Manager may perform the cleaning on an overtime basis and backcharge the Contractor responsible.
- L. Contractor Scopes of Work and Schedule are interrelated. Familiarity with each is required.
- M. The Construction Manager will provide testing services for soil, concrete and steel. Other testing as required by the Contract Documents will be in accordance with the technical specifications and/or the individual scope of work. Refer to Specification Section 004500 - QUALITY CONTROL.
- N. Safety is the responsibility of each individual Contractor. The project will be governed under the guidelines of OSHA.
- O. Inter-Contractor shop drawing distribution will be performed by the Construction Manager. Contractor is individually responsible for either coordinating his work with these distributed drawings or notifying the Construction Manager, in writing, of any discrepancies.
- P. Coordination with other trades will be required. The Contractor will be required to attend periodic coordination meetings with other trades where requirements, conflicts and coordination issues will be discussed and resolved. Attendance when requested will be mandatory. If inter-Contractor coordination is not satisfactorily performed, the conflicting Contractors shall mutually share the cost to relocate and/or reinstall their work.
- Q. Contractor shall submit a schedule of values to the Construction Manager prior to the submission of their first invoice for approval through Building Blok.
- R. Contractor is expected to review and coordinate its Work with the complete set of Contract Documents, including all items noted as by his trade whether or not shown on that particular set of drawings. Documents are available at the site for review.
- S. Contractor is responsible for obtaining all necessary permits required for his work, including street permits. Unless otherwise noted, building permit shall be secured by the Construction Manager. Any subcontractor who will be restricting access to street, right of way or adjacent property must notify the Construction Manager 48 hours in advance.
- T. Contractor's License: Submit a copy of all business licenses required by local and state agencies.
- U. Contractor shall absorb, without additional compensation, any and all costs of working beyond normal hours to maintain job progress in accordance with the current construction schedule.

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- V. No asbestos or PCB's in or on any material or equipment will be accepted or allowed on this project. All hazardous materials will be treated in accordance with all State and Federal regulations.
- W. Daily cleanup of the work is the responsibility of each individual Contractor which includes broom cleaning of their debris as required. Contractor will be individually back charged by the Construction Manager for cleanup not satisfactorily performed by the Contractor.
- X. In the event asbestos is uncovered, the Contractor shall notify the Construction Manager of the areas requiring removal of asbestos. The Construction Manager shall then coordinate the removal with the Owner.
- Y. This project is to be constructed adjacent to existing buildings. Contractor shall exercise all due precautions to minimize noise, air pollution and any other construction hazards which in any way would cause discomfort or danger to the occupants of the existing building in the area.
- Z. The Safety Cable System shall not be altered or removed without a written request submitted to the Project Manager with a copy to the Field Manager. It shall be the responsibility of each and every Contractor that is removing or altering the Safety Cable System to maintain the fall protection safety provided by the safety cable and not leave the area unprotected. Each and every Contractor shall be responsible to re-install the Safety Cable System immediately after work is completed. Each and every Contractor shall be responsible to re-install the Safety Cable System in accordance to OSHA standards.
- AA. Normal work hours for this project are from 7:00 a.m. to 3:30 p.m. Any work to be performed outside of these hours must receive prior approval from the Construction Manager. Requests to work beyond normal work hours shall be submitted at least 48 hours prior.
- AB. Contractor is responsible for having a competent project superintendent/foreman on-site during all work performed under its contract.
- AC. In the event the Contractor has non-English speaking employees or subcontractors on the project, they shall have a superintendent or foreman on site, at all times, who speaks English and can communicate with Contractor's employees. Should the Contractor fail to meet this requirement, at any time, Construction Manager may direct all Work to stop until the proper supervision is on site. The Contractor will be responsible for maintaining the project work schedule and make up at its own expense, any delay to the Schedule resulting from the work stoppage.
- AD. Punch List Procedures: Contractor shall be given a copy of the punch list with his appropriate work identified. Contractor shall have nine (9) calendar work days to complete its punch list work. On the 10th day or as determined by the Construction Manager, the Construction Manager shall employ other contractors, as required, to complete any incomplete punch list work and retain from the appropriate Contractors retainage all costs incurred.

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- AE. Contractor shall provide the necessary safety barricades and railings required to complete their work and comply with all OSHA, local code and contract specifications.
- AF. Prohibition of Using Photographs on EDiS Projects: The Contractor and all associated subcontractors agrees to not issue any news release or advertising pertaining to the Work or the Project, including references to the Project on the Contractor's/subcontractor website or other social media outlets, without obtaining EDiS' prior written approval, in each instance. The Contractor, for itself, its employees, vendors and subcontractors, agrees to not use the name of the Owner, the Project, EDiS or any photographs, videos, or other images of the Project in connection with any of Contractor's business promotion activities, advertising, website, social media outlets, or operations, without EDiS' prior written approval in each instance.
- AG. This is not a secure site. All contractors are responsible for concealing, locking and /or removing any materials on a daily basis. EDiS will not be responsible for any lost tools, materials or equipment.
- AH. Provide all BIM services as specified in Section 013700 BIM Execution Plan. As part of the coordination process all contractors are responsible for obtaining a Revizto license. The cost of this license is \$1,500 and shall be included in your base bid proposal.
- AI. All contractors must provide a silica exposure plan that meets or exceeds the new 2017 silica OSHA requirements before any work can commence. At a minimum, it must be implemented into the company safety plan, include all monitoring, testing, limits exposure, provide respiratory plan and/or equipment modifications such as adding water to equipment during exposed work and keep records of exposure.
- AJ. All contractors shall be responsible to protect all non-metallic piping within the building envelope from overspray of the Applied Fireproofing, intumescent coatings, fire caulking and fire safing as it pertains to the scope of your course of work. The contractor shall be familiar with and comply with the NFPA regulations, including but not limited to the following 6.3.7.5 Firestopping materials intended for use on nonmetallic piping penetrations shall be investigated for compatibility with the nonmetallic pipe materials. 6.3.7.5 Protection plan shall be submitted and reviewed with the CM prior to implementation.
- AK. For all contracts which include allocations for CO OP hours with NCCVT students, any unutilized CO OP hours shall be returned to the district at the rates published in the documents, as a credit change order.

CONTRACT NO. E-01: DEMOLITION AND REMOVAL

A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

- Technical Specification Sections:

|                |                                                    |
|----------------|----------------------------------------------------|
| Division 0     | Procurement and Contract Requirements              |
| Division 1     | General Requirements                               |
| Division 02    | Existing Conditions                                |
| Section 024116 | Structure Demolition                               |
| Section 312000 | Earth Moving                                       |
| Section 312300 | Excavation & Backfill for Pipelines and Structures |

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide all labor, material, trucking, equipment, dumpsters/disposal, hoisting, power, temporary facilities, permit fees, supervision, layout, maintenance of traffic/traffic control, clean up, etc. for the complete performance of all demolition work as included within the scope and specifications. **This contract is responsible for the complete Demolition and Removal of the existing Hodgson HS and all demolition notes and Attachments that relate to this scope of work. (Addendum No. 1)** Coordination of onsite utilities and disconnecting/capping of water, irrigation, electric and other identified utilities is the responsibility of this contractor.
2. **This Contractor MUST attend the Mandatory Pre-Bid meeting as identified in Section 001116 Invitation to Bid. Attendance at this meeting is a prerequisite for bidding on this contract. (Addendum No. 1)**
3. **Note:** Included in the contract documents for this project are the drawings of the existing HS for your reference.
4. **Included in Addendum #1 is an Attachment "D" which identifies the Phase I and Phase II areas of the building demolition. Phase I is the gym and greenhouse areas and will be available to begin demolition after the section is fully abated and cleared. (see bidding schedule) This contractor shall include the mobilization costs (complete) for performing the Phase I demolition and then returning to the project once the Phase II work is available. (Addendum No. 1)**
5. **This contractor is responsible to remove or demolish any equipment, furnishings, cabinets, lockers, etc. that is physically attached to the building. Additionally, where items that were attached to the building and had to be removed by the abatement contractor to abate adjacent materials (example Lockers, removed to abate floor tile under the lockers) are to be removed/demolished by this contractor (Contract E-01) (Addendum No. 1)**
6. This contractor shall be responsible to communicate and coordinate with the CM and the asbestos abatement contractor as it relates to demolishing portions of the structure that have been abated. At no time shall this contractor perform any demolition until they receive confirmation from the CM that the building section is free and clear of all asbestos materials.

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7. This contractor shall include within their base bid (2) separate mobilizations with the intent that we may need to complete demolition of the building in phased Sections (after abated) while the other portion is being abated. Figure this phasing as part of your base bid.
8. This contractor shall vacate and remove as per all federal, state and local regulations all oils, hydraulic fluids, glycol, gasoline, diesel fuel etc. that is located within the areas of demolition provided for in your contract/scope.
9. Demolition of the existing elevator is part of this contract's scope and includes removal of all elevator equipment, fluids, oils etc. as required by federal, state and local regulations.
10. This contractor shall supply all power and water required to perform the scope of their contract work  
Including water supply for dust control while performing your scope of work.
11. The contractor shall fully acquaint and familiarize himself with the conditions as they exist and the character of the operations to be carried out under the proposed Contract and make such investigation as he may see fit so that he shall fully understand the facilities, physical conditions and restrictions affecting the work under the Contract. Claims for additional compensation and/or extensions of time because of Contractor's failure to familiarize himself with all conditions which might affect the work shall not be allowed.
12. Contractor shall familiarize their teams with the location/proximity of the existing turf practice field. Include protective measures to insure the field is not impacted or damaged during the course of your work on site. (this field will be utilized by the school for practices during the fall of 2026)
13. Work related to Phase 2 of the overall project (Addendum No. 1) areas are included in this contract scope.
14. Demolish all structures, buildings and their appertains construction to a below grade and remove all foundations. Fill in all depressions to a level that allows for positive drainage from all areas of the building pad to the existing storm outlets. Fill must be clean compactable fill or select material. Coordinate with other contractors on site during filling/grading segments of your work. Included in this scope is the removal of all underground piping, wiring, tanks and underground installations within your demolition areas.
15. Contractor is responsible for having a competent supervisor on site during all work performed under this contract. This supervisor will have daily contact with the EDiS Field Manager and file all required daily reports.
16. All foundation walls, areaway walls, vault walls, shop walls, yard walls shall be demolished and completely removed. Depressions to be filled with suitable filler subgrade material, compacted to 95 percent of ASTM D698 and sloped to drain.
17. Before ANY excavation work is to commence, the Contractor/Excavator shall contact the utility companies or utility owners and advise them of the proposed work and ask them to mark the location of the underground utility installations. This notification shall be done within established or customary

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local response times. If the work is on private property and the utility company will not mark out the utilities, the Contractor/Excavator will hire a private locating service to mark the utilities. Once the utilities are located and marked, the Contractor/Excavator will excavate by hand or use a vacuum truck to expose the utilities and record the exact location and elevation of the utilities. The Contractor/Excavator must submit the Excavation Permit to EDiS Company verifying their assurance of communication with the utility companies or utility owners. The Contractor/Excavator must follow State, Local, and Federal Guidelines prior to proceeding with excavations. The Contractor/Excavator will have these marks restored as long as there is work to perform.

18. Salvage and store on-site all materials indicated to be saved by contract documents. Materials can be removed from site for cleaning and returned to site at the contractor's expense. All salvaged materials are to be properly palletized and protected prior to being stored at the location directed by the construction manager.
19. Coordinate with the owners (NCCVT) maintenance team on items to be salvaged and utilized by the district. (if they are to be salvaged, they will be marked in the field with a tag/marker that identifies what happens to each item.)
20. Remove from site all combustible material including, but not limited to wood, steel, iron, structural steel, and dispose of it in a legal manner. No on-site burning of material will be allowed at any time.
21. Remove from site concrete slabs on grade, hot mix paving, retaining walls (concrete and masonry) in a legal manner.
22. Items of demolition shall include, but not necessarily be limited to, complete structures, foundations, below grade footings, concrete duct banks, MEP utilities, equipment, furnishings and general debris within the areas defined to be demolished.
23. This Contractor shall notify the Construction Manager immediately if hazardous materials (i.e. asbestos, lead, PCB's, etc.) are uncovered. At that time, all work in the affected area will be stopped until proper removal can be completed by others (i.e. hazardous material abatement contractor).
24. This contractor is to remove all fluids and refrigerants from existing mechanical, plumbing, fire protection piping, and electrical equipment and lighting prior to demolition of said equipment in accordance with all Local, State and Federal regulations. Include testing for PCB's and the final regulated removal of fixtures, bulbs equipment etc.
25. The owner and CM will not provide any dumpsters or trash removal for this contract, all dumpster required for your work to be provided by this contract.
26. Temporary maintenance standby labor such as for temporary water, temporary power, temporary light and the like where required due to this Contractor's work is to be included within the Contract Price.
27. If your work impacts the local streets or roadways with debris, soil, dirt etc. you will clean immediately with proper paving cleaning equipment. (Sweeper truck with water)
28. This Contractor shall include in the Contract Price and unit prices, the cost of all police traffic details required for the execution of the work.

29. All light, power, water, gas and any other utilities, including special provisions for hookups to same for this Contractor's operations will be provided by this Contractor within the Contract Price.
30. This Contractor shall comply with all Federal, State and local laws requiring noise control and hours which work is to be conducted. Mufflers, "whisperized" compressors, etc., shall be used as required for compliance with laws and ordinances throughout the course of the Work.
31. It is understood that all Work under this Contract shall be in strict accordance with the Building Code with the City, State and any other agency having jurisdiction. In the event of any conflict in any provisions of any regulatory agency and Contract Documents, the more stringent requirements shall apply.
32. This Contractor shall provide any and all "fire watch" personnel required due to the Contractor's cutting, burning, welding or other open flame activity.
33. This Contractor shall submit proposed methods and operations of building demolition to the Owner and CM for review prior to the start of work, including a schedule of coordinating the shut off, capping and/or continuation of utility services as required. Pre-Install meeting with EDiS required before demolition may occur.
34. Before proceeding with the demolition work, this Contractor shall obtain a permit from the City, County, or Authority Having Jurisdiction, protect all public sidewalks, streets or thoroughfares and all property adjacent to the site as required by such codes, ordinances, rules and regulations, including, but not limited to, scaffolding, sidewalk bridges, fences, barricades, aprons, warning signs and lights.
35. This Contractor shall maintain all required means of egress into and out of the project site, no roadways shall be blocked or deemed inaccessible.
36. Before demolition work is started, existing sewer, water, gas and other service lines to the existing buildings shall be located, identified and shut off, disconnected and capped or plugged in accordance with the requirements of the utility companies or other authorities having jurisdiction. If required to disconnect and cap at the "source" is required by the governing utility company, this contractor will be responsible for the work/cost. This Contractor shall notify all such authorities in advance and obtain their approval and co operation in shutting off utilities. All costs associated with disconnecting utilities shall be borne by this Contractor.
37. This Contractor shall take special precautions to shore, brace, support or relocate any utility lines as may be required to satisfy all agencies having jurisdiction.
38. This Contractor shall, in cooperation with utility companies, remove or cause to be removed all light and power poles if required to be removed, at such time as the services utilizing said poles are no longer required.
39. Street openings made for the shutting off or tapping of utility lines or for any other purpose shall be backfilled, tamped and the surfaces restored in accordance with the requirement of applicable local codes or to match existing; whichever is greater.

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40. Existing services to remain will be defined by the Owner prior to or immediately after the start of demolition work. Owner to work with this contractor to relocate identified equipment/ items per drawing notes.
41. This Contractor shall make a careful examination of the structures to be demolished and the adjoining property and utilities which are to remain; take whatever precautions are necessary and carry on operations to prevent personal injury and any settlement, collapse, damage from falling debris or other causes to adjacent building.
42. This Contractor is aware of the structural capacities of various portions of the structure. Cranes, materials, deliveries and material storage, shall not exceed rated capacities without this Contractor taking appropriate steps to compensate for the imposition of loads which may exceed the design criteria and which are imposed solely by this Contractor's operations.
43. Any damage to public property, private property, or to utilities due to demolition operations, or the Contractor's neglect, shall be corrected by this Contractor, in a manner approved by the Owner and the parties whose property has been damaged, all at no additional cost to the Owner.
44. Miscellaneous equipment and furnishings belonging to the Owner, if to be retained by the Owner, will be removed before the commencement of the demolition work. All other equipment or furnishings attached, remaining, in the buildings at the start of the demolition work shall become the property of this Contractor and shall be removed and disposed of by this Contractor. This includes equipment, furnishings, small wares and general debris that remains after the owner turns the building over to this contractor.
45. All equipment, materials and debris shall be regularly removed by this Contractor from the Site as work progresses in such manner as not to create a nuisance and shall be disposed of by this Contractor at his own expense, at locations to be determined by this Contractor. Permits required in connection with the disposal of the materials shall be obtained by this Contractor. Disposal shall be in accordance with all Federal, State and local laws, rules, codes, orders and regulations.
46. Contractor shall remove debris promptly and will not burn anything on the site. Contractor shall keep required fire extinguishing equipment in serviceable condition, properly distributed so that it will be available for immediate use, particularly during any acetylene cutting operations.
47. This Contractor shall, prior to the start of Work, provide the name and location of proposed dump site to receive the demolition debris. Dump site must be licensed and acceptable to all local government agencies having jurisdiction.
48. This Contractor shall provide signed and stamped dump site debris tickets identifying the location, date, time, and quantity of debris deposited at the dump site.
49. This is not a secure site. All contractors are responsible for concealing, locking and/or removing any materials daily. EDiS will not be responsible for any lost tools, materials, or equipment.
50. Note: The existing school and all associated activities will be ongoing as your work is performed, caution shall be utilized by your crews at all times. The main entrance to the new school will be your access, extreme caution must be utilized, including limited access between the hours of 7:00 AM and 8:30 AM

and from 2:45 PM to 3:15 PM

51. This Contractor shall provide any and all "fire watch" personnel required due to the Contractor's cutting, burning, welding or other open flame activity.
52. This Contractor shall submit proposed methods and operations of building demolition to the Owner, his representative or agents for review prior to the start of work, including a schedule of coordinating the shut off, capping and/or continuation of utility services as required.
53. This Contractor shall visit the site of the proposed work, fully acquaint and familiarize himself with the conditions as they exist and the character of the operations to be carried out under the proposed Contract, and make such investigation as he may see fit so that he shall fully understand the facilities, physical conditions and restrictions affecting the work under the Contract. Claims for additional compensation and/or extensions of time because of Contractor's failure to familiarize himself with all conditions which might affect the work shall not be allowed.
54. Contractor shall remove debris promptly and will not burn anything on the site. Contractor shall keep required fire extinguishing equipment in serviceable condition, properly distributed so that it will be available for immediate use, particularly during any acetylene cutting operations. This Contractor shall afford adequate facilities for inspection by, and carry out the recommendations of, the local Fire Department. This Contractor shall maintain one fire riser during demolition.
55. Provide a \$75,000 allowance, included in base bid, to be utilized for work directed by the CM and Owner. All unused allowance shall be returned to the owner.

CONTRACT NO. E-02: SITEWORK & UTILITIES

A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

- Technical Specification Sections:

|                |                                                              |
|----------------|--------------------------------------------------------------|
| Division 0     | Bidding and Contract Requirements                            |
| Division 1     | General Requirements                                         |
| Section 024100 | Site Demolition                                              |
| Section 033000 | Cast in Place Concrete                                       |
| Section 116833 | Baseball/ <del>Dugout</del> Field Equipment (Addendum No. 1) |
| Section 116834 | Athletic Field Equipment                                     |
| Section 220500 | Common Work Results for Plumbing                             |
| Section 221113 | Facility Water Distribution Piping                           |
| Section 312000 | Earth Moving                                                 |
| Section 312300 | Excavation & Backfill for Pipelines and Structure            |
| Section 321216 | Asphalt Paving                                               |
| Section 321313 | Concrete Paving                                              |
| Section 321800 | Synthetic Turf Shock Pad                                     |
| Section 321813 | Synthetic Turf Carpet                                        |
| Section 321814 | Subgrade and Stone Aggregate Drainage Layer                  |
| Section 321824 | Running Track Surfacing                                      |
| Section 323113 | Chain Link Fences and Gates                                  |
| Section 328000 | Site Irrigation                                              |
| Section 334100 | Storm Utility Drainage Piping                                |
| Section 329200 | Grass Athletic Field Construction                            |

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide sitework, storm, sanitary and water utilities, concrete and asphalt paving, striping, curbs, walks, signage, exterior concrete steps and ramps, sod and topsoil/seeding. This Contractor shall include in the Base Bid the cost of remobilization, cleaning and tack coating the asphalt base course in order to install the asphalt top coat.
2. **This contract to include all sidewalks and exterior concrete. The building concrete as shown on the structural drawings is provided by Contract E-03 Concrete and Reinforcing. (Addendum No. 1)**
3. **This contractor shall provide the excavation, concrete and backfill associated with the entrance sign drawing FA-512 and the external signage at the building patio drawing FA-512. This includes topsoiling and seeding at the areas once completed. (Addendum No. 1)**
4. Work related to Phase 2 and Phase 2A are to be included in this contract scope. (including attachment drawings)
5. Demolition of the existing HS is not included in this contract. Contract E-01 will perform that work. This contractor is responsible for coordinating with the contractor demolition contractor (E-01) as it

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relates to the scope of your work. **Refer to Attachment "D" for demolition phasing.** (Addendum No. 1)

6. This contract shall remove all curbs, sidewalks, pads, paving, asphalt etc. throughout Phase 2 and 2a excluding work within the existing building footprint. **This includes the concrete sidewalks shown on drawing FA-571 Detail A4 typical for all similar conditions.** (Addendum No. 1)
7. Provide identification and removal of all site utilities, electric, water, sanitary, storm and gas as required by the contract documents and in order to perform your contract scope of work. This scope includes removal of all utilities (electric, water, gas, storm water, sewer) to within 5 feet of the existing building and outbuildings. The demolition contractor then removes the rest.
8. Provide dumpsters as required for the scope of work of your contract. The CM and Owner will not provide any dumpsters for this contract. Waste materials such as asphalt paving, concrete debris, rubble, etc. may not be stored on site for removal later. All debris must be removed from site as it is displaced.
9. This contractor to supply their own source of power and water for the scope of work included in this contract. No power or water will be provided by the Owner or CM
10. This Contractor shall visit the site of the proposed work, fully acquaint and familiarize themselves with the conditions as they exist and the character of the operations to be carried out under the proposed contract and make such investigation as they may see fit so that they shall fully understand the facilities, physical conditions and restrictions affecting the work under the Contract. Claims for additional compensation and/or extensions of time because of Contractor's failure to familiarize themselves with all conditions which might affect the work shall not be allowed.
11. Provide all site survey and layout of this contract work from a licensed surveyor. This work includes, but not limited to, accomplishing cuts and fills, locating utilities, layout of roads and walkways, and establishing site boundaries. Benchmarks and control points will be established by the CM.
12. Furnish and install all site signage. This includes all traffic, pedestrian and School related signage not mounted on buildings, including fire lane curbing paint and/or stripping and signage as required by contract documents and applicable codes.
13. Before ANY excavation work is to commence, the Contractor/Excavator shall contact the utility companies or utility owners and advise them of the proposed work and ask them to mark the location of the underground utility installations. This notification shall be done within established or customary local response times. If the work is on private property and the utility company will not mark out the utilities, the this contractor will hire a private locating service to mark the utilities. The report generated from the sub-surface private locating firm shall be provided to EDiS as a project submission. Once the utilities are located and marked, the Contractor/Excavator will excavate by hand or use a vacuum truck to expose the utilities and record the exact location and elevation of the utilities. The Contractor/Excavator must submit the Excavation Permit to EDiS Company verifying their assurance of communication with the utility companies or utility owners. The Contractor/Excavator must follow State, Local, and Federal Guidelines prior to proceeding with excavations. The Contractor/Excavator will have these marks restored as long as there is work to perform. Once the Contractor has installed new utilities, they will provide to EDiS Company an as-built drawing, within 7 days, showing the exact

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location and elevation of the utilities. The installing Contractor will be responsible for locating and marking these utilities for other contractors that may have work in the same area.

14. Provide all required water service piping and final connection indicated in Phase 2 and 2A.
15. This contract shall provide a complete irrigation system as identified on the contract documents and specifications. **Water to be provided by the well systems currently installed at each system location. (Addendum No. 1)**
16. This contractor shall coordinate with the sprinkler and plumbing contractor to flush all mains into buildings.
17. Provide all sanitary and storm sewer work, including relocation of existing lines, man holes and structures as necessary. Include all required inspections as required by local code authorities. Include all permits necessary for your work. This contractor to include a full camera/video for all sanitary and storm lines/structures for submission and review by the CM, design team and governing authorities. Contractor shall provide imported structural fill material for all new utility trench backfill. Material shall conform to the requirements identified within the contract documents. AASHTO #10 screenings are also an approved material for utility trench backfilling.
18. Provide fire supply piping including fire hydrants and loop. Color code fire hydrants as required by the local jurisdiction based upon water pressure. Provide fire lane striping including painting of adjacent curbs as required by local jurisdiction having authority.
19. Provide site amenities and steel pipe bollards and decorative bollards, bike racks, flagpoles, manual and automatic gates (including associated gate hardware, **coordinate with security and access controls.**) **(Addendum No. 1)** Include excavation and concrete to support these amenities as shown in the project documents and required by manufacturer's instructions. This contractor shall provide "all" bollards at the field house and all outbuildings as well as site bollards.
20. **Provide the work associated with Section 129300 Site Furnishings. (Addendum #2)**
21. Provide all flag poles, flag poles foundations, anchor bolts, excavation and grading associated with their installation.
22. Provide Baseball field equipment and athletic field equipment as per documents.
23. Provide all permanent fencing (chain link and ornamental) including gates and gate hardware. Provide manual swing arm gates and automatic gates and sliders as indicated in documents.
24. **Furnish and install and maintain a concrete washout station for the work or your contract and all other subcontractors until the completion of the project. (Addendum No. 1)** You are responsible for the maintenance and DNREC upkeep of the washout station whether you are actively working on site or not. Remove this item at conclusion of project and provide the required final site work, seeding, sodding, curbs, etc. indicated on finished drawings. Provide signage to identify concrete wash out areas.
25. Furnish, install, maintain and remove sediment control system including sediment control plan.

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Maintain sediment control until substantial completion is established by DNREC. Repairs, revisions and adjustments required by the weekly CCR reports is the responsibility of this contractor.

26. This Contractor shall, in cooperation with utility companies, remove or cause to be removed all light and power poles if required to be removed, at such time as the services utilizing said poles are no longer required. Remove existing utilities and structures (water, storm, sewer, gas, electric etc.) from their source to 5' outside of existing building footprint. Coordinate shut-off with utility companies, cut and cap as required by governing agency. Patch existing manholes where existing utilities are removed, in accordance with DelDOT and NCCo regulations.
27. If required, this Contractor shall relocate power or light poles, fire hydrants, traffic signs or signals and similar utility and public service items in use and shall cooperate with all governmental agencies having jurisdiction over such items so as not to interfere with the services of such governmental agencies.
28. Street openings made for the shutting off or tapping of utility lines or for any other purpose shall be backfilled, tamped and the surfaces restored in accordance with the requirement of applicable local codes or to match existing; whichever is greater.
29. Utility equipment belonging to the utility companies, if to be retained by these companies, will be removed from the site by the company owning the equipment upon notification by this Contractor.
30. Any damage to public property, private property, or to utilities due to demolition operations, or the Contractor's neglect, shall be corrected by this Contractor, in a manner approved by the Owner and the parties whose property has been damaged, all at no additional cost to the Owner.
31. All clearing, grubbing and removal of vegetation, trees, roots and stumps whether indicated on documents or not. A site visit to review existing areas within Phase 2 and Phase 2A prior to bidding is required.
32. Topsoil stripping and stockpiling on site. Respread topsoil from the established topsoil stockpiles and fertilize as specified in the civil drawings. The topsoil must be **triple screened** (Addendum No. 1) to remove all inorganic materials in excess of ¾ inches or import material certified as triple screened. Prior to seeding, this contractor is responsible to have the topsoil tested and to supply and install amenities (fertilizer, lime, etc.) as required by the test report. Provide temporary and permanent stabilization grass seeding at all areas following the completion of construction activities. This contractor is responsible for all weeding, watering, fertilization, and grass cutting to ensure 100% grass growth in the entirety of these areas until permanent certificate of occupancy is approved, including meeting all DNREC approvals and the areas are accepted by the Owner.
33. Contractors should carefully review the soil borings as they relate to the extent of rubble to be removed and other man made obstructions. Saw cutting and removal of sidewalks, curbs, etc. in the performance of work is this Contractor's responsibility.
34. Provide, maintain, and remove stabilized construction entrances (SCE). Furnish and install wash station, labor to wash tires, clean and drain the area as required before vehicles leave the site daily. Clean tires and tracks of all vehicles before leaving the construction site. Wash station will be utilized by other contractors and will be removed only when directed by EDiS. Furnish and install Non-freeze

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- Hose Bib, water line, valve box, drainpipe etc. as required to provide a fully functioning tire wash station for the projects use. Provide (2) 50 heavy duty hoses and one brass nozzle for CM's use.
35. Protect all existing trees to remain within the limits of construction. Includes all SAP requirements. (sensitive area protection)
36. All tree removal, stump removal and grubbing removal as identified on contract documents is the responsibility of this contractor, complete.
37. Provide a temporary water means for other trades to utilize. Include all costs associated with metering from local utilities as well as valves and hoses for contractors to utilize. The Construction Manager will not provide this service.
38. This contractor shall provide, maintain, refurbish and remove ~~2000~~ 3000 (Addendum No. 1) linear feet of stoned roadway from the Stabilized Construction Entrances, 25'-0" wide. Road shall consist of fabric, 10" of #3 stone for the length of the road and the means to compact it. The location will be determined by construction manager. Include removal of temporary stone road from site upon request from construction manager. This work is in addition to the construction entrance identified on the contract documents.
39. Provide in base bid, the cost to provide, maintain and remove upon construction manager direction, a total of 2 temporary crane pad's: each a 35'x35' (Addendum No. 1) stoned area. Pads shall consist of fabric, 10" of #3 stone for the area of the pad, and the means to compact it. Include removal of temporary stone pads from site upon request from construction manager.
40. Provide in base bid, the cost to provide, maintain and remove upon construction manager direction, a temporary stone parking area that is 150' X 150'. Area shall consist of fabric, 10" of Crushed concrete or crush and run stone for the area of the pad, and the means to compact it. Include removal of temporary stone pads from site upon request from construction manager.
41. Rough grading for area defined on site drawings for building, lawn areas, bituminous roads, parking and walkways. Preparation of subgrade for building slabs, walks, pavements, grass fields, baseball and softball fields Etc.
42. Sitework contractor is to provide rough grading for area defined on site drawings for building, lawn areas, bituminous roads, parking and walkways. Preparation of subgrade for slabs, walks, and pavements. The Sitework Contractor to extend the bulk excavation 10' outside building plan in order to facilitate foundation construction and maintain safety requirements. Written acceptance of the building pad condition will be provided by the concrete contractor before foundation work proceeds. The Concrete Contractor will be responsible for laying out all concrete work as shown on the structural and architectural drawings. Once the Concrete Contractor has accepted this work it will be the responsibility of the Concrete Contractor to maintain and dewater the building pad and all excavations until the concrete work is complete and backfilled. The Concrete Contractor and Sitework Contractor are to coordinate this procedure so that there are no additional costs to the Owner for additional excavation or concrete. Spoils left after backfilling of foundations is complete are to be left outside the building perimeter by the concrete contractor and neatly piled in a single location for each building area. The site contractor will then remove the spoils off site unless directed by the CM to spread on site (Include costs to move off site)

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43. Backfilling as detailed below is the responsibility of this Contractor. Soil types shall be in accordance with Del Dot standard specifications.
44. The use of this on site material shall conform with the compaction requirements as specified and identified in the Geo-Tech reports, civil drawings and specifications. The intent is to utilize the onsite materials to establish grades and construct the building pad. It is the sole responsibility of this contractor to evaluate the soil information provided and determine if the soil will be acceptable to meet the structural fill requirements identified, when excavated and placed at the time of year indicated in the bidders schedule. If sufficient amounts of suitable fill material are not found within the limits of disturbance (LOD) the contractor shall be responsible to purchase, deliver and install off site fill materials to allow the building pad, Stadium, parking areas, driveways and site grades to be achieved. It is this contractor's responsibility to restore all areas disturbed by harvesting operations completely. It is the responsibility of this contractor to understand fully the existing soil conditions and how they can be utilized to achieve grades within the project schedule timeline. The contractor may request permission test/review the soils in the field prior to bidding.
45. This contractor **shall provide off site fill that meet the project specifications, to establish the grades for the field house pad, stadium turf and track areas as well as the bleacher locations. (Addendum No. 1)**
46. All structural soils that are to be stock pile on site shall be covered as the stockpile is being created and then kept covered as needed to insure the integrity of the materials (keep it dry)
47. Provide all concrete curbs, sidewalks, pads and ramps, including bituminous joint filler. All backfilling at concrete curbs, sidewalks, pads and ramps shall be flush with top of concrete. Include all stone bedding as detailed on the contract documents. Curb excavations shall be bedded with 4" of crush and run stone material prior to installation of the concrete curbs.
48. Provide curb cuts, depressions and filter strips as designated.
49. Provide all unloading and material handling for the work of this contract.
50. Provide all concrete bumper blocks at parking areas.
51. Provide all bituminous paving to include but not limited to drive lanes, parking lots, bus parking, paved islands, pathways etc.
52. This contractor to include in the base bid the cost associated with installing the base course on the drive lanes and parking areas prior to the scheduled installation of the top coat. Include remobilization, cleaning, tacking etc. as necessary to prepare utilized base course for final paving top coat.
53. Provide all concrete paving as indicated on the contract documents.
54. Millings may not be used as a substitute for stone base.
55. This Contractor will provide all pavements markings, fire lane signs, and traffic signs.
56. The certified construction reviewer (CCR) will be provided by the Owner. Review controls on a weekly basis and complete repairs to stay compliant with DNREC & CCR requirements.

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57. Furnish, install and remove approximately 3000 linear feet of temporary construction fence required. The fence shall consist of new 6' high #9 gauge galvanized chain link fence with top rail and bottom tension wire. Provide (2) 12' wide gates. The posts shall be installed in the ground. This fence is required to be in-place for the duration of the project. Maintain this work until Substantial Completion of this project. At the end of the project remove the fence, patch and repair the finished surfaces to a like-new condition. Provide black wind screen material for all areas of the temporary fencing.
58. Proof rolling of limit of excavation prior to fill operations, coordinate all work with the CM and the Geo-Tech engineer assigned.
59. All utilities shall be brought to within +/- 5 feet of the building line by this Contractor. The connection and all utilities from +/- 5 feet and into the building shall be by others. This does not include the storm water line; this contractor shall tie in the storm water to the building.
60. Temporary maintenance standby labor such as for temporary water, temporary power, temporary light and the like where required due to this Contractor's work is to be included within the Contract Price.
61. Provide perimeter protection of all excavated areas until suitably backfilled. Fencing and posts is required; no other method will be acceptable. "Caution" tape is not acceptable protection.
62. ASPHALT CEMENT COST ADJUSTMENT
  - a. Payments to the Contractor shall be adjusted to reflect increase or decreases in the Delaware Posted Asphalt Cement Price when compared to the Project Asphalt Cement Base Price, as defined in these Special Provisions.
  - b. The Delaware Posted Asphalt Cement Price will be issued monthly by the Department and will be the industry price for Asphalt Cement, F.O.B. Philadelphia, Pennsylvania.
  - c. All deviations of the Delaware Posted Asphalt Cement Price from the Project Asphalt Cement Base Price are eligible for cost adjustment. No minimum increases or decreases or corresponding percentages are required to qualify for cost adjustment.
  - d. Actual quantity of asphalt cement qualifying for any Asphalt Cement Cost Adjustment will be computed on the basis of weight tickets and asphalt percentage from the approved job mix formula.
  - e. For Recycled Hot-Mix the asphalt percentage eligible for cost adjustment shall be only the new asphalt cement added to the mix.
  - f. The Asphalt cement cost adjustment will be calculated on grade PG 64-22 asphalt regardless of the actual grade of asphalt used. The Project Asphalt Cement Base Price for the project will be based on the August 1st price posted on DelDOT's website.
  - g. If the Contractor exceeds the authorized allotted completion time, the price of asphalt cement on the last authorized allotted work day, shall be the prices used for cost adjustment. However, if the industry posted price for asphalt cement goes down, the asphalt cement cost shall be adjusted downward accordingly.
63. Provide street cleaning of mud, etc. on a daily basis when actively performing work on the site.
64. Include all costs for temporary barricades, arrows, pedestrian protection, flagmen, etc. required to complete the work.

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65. Base bid shall include all standard dewatering measures, utilizing trenches, crocks, stone and portable pumping measures. This contractor to provide these measures as required to perform their work. Well pointing if necessary, will be handled as a negotiated cost by the Owner.
66. Furnish and install (5) dewatering crocks within the building pad or stadium areas as directed by construction manager. Dewatering crocks shall consist of 2' diameter, 3' long perforated pipe with a #3 stone base. This contractor shall remove and fill the dewatering crocks when directed by construction manager.
67. This Contractor shall provide and maintain all temporary access roads as detailed in Contract Documents, until completion of project.
68. Provide all plant material and all associated work including, but not limited to, staking, watering, weeding, fertilizing, etc.
69. Planting soil mix in beds and topsoil to be provided by the Sitework Contractor. Provide all additional soil mix required to set plant materials and final grading. (triple screened topsoil is required in all areas)
70. Provide filter fabric, weed, check and mulch at all planting areas.
71. Provide sod at all grass areas surrounding Fieldhouse, ponds and adjacent driveway islands. Include maintenance, care, watering and replacement as necessary up to the owners occupancy and an additional (3) months of this service shall be provided.
72. Provide specified warranties, general two year and all extended warranties.
73. Provide all dewatering of excavations until final acceptance.
74. Provide temporary shoring to support and maintain adjacencies and excavations per OSHA standards.
75. This contractor must provide a silica exposure plan that meets or exceeds the new 2017 silica OSHA requirements before any work can commence. At a minimum, it must be implemented into the company safety plan, include all monitoring, testing, limits exposure, provide respiratory plan and/or equipment modifications such as adding water to equipment during exposed work and keep records of exposure.
76. Provide As-Built Drawings both in electronic format and a hard copy.
77. Provide pricing for alternates as described in Section 012300-Alternates.
78. Provide perimeter stormwater drains at all buildings (including within 5' of the building perimeter). This contractor to provide the final connections. Provide downspout adaptors and cast iron boots, coordinate with roofer for the correct downspout size. Provide splash block where called for.
79. Provide all BIM services as specified in Section 013700 BIM Execution Plan. As part of the coordination process all contractors are responsible for obtaining a Revizto license. The cost of this license is \$1,500 and shall be included in your base bid proposal.

**Stadium Field, Running Track, Courtyard Turf Areas, Baseball and Softball Fields, Bleachers Areas.**

80. This contractor shall provide all work associated with the stadium turf field, running track and athletic field equipment. This shall include but not be limited too, all subbase construction, concrete curbs, drainage systems, concrete paving, fencing , gates, sidewalks, shock pad, turf, running track base and surface, athletic equipment and associated work to provide completed system.
81. Provide all practice fields, baseball and softball fields, shot put area, fencing, gates, back stops and all other athletic accessories identified in the contract documents.
82. This contract owns all chain link fencing and ornamental fencing, gates and hardware.
83. This contractor shall coordinate the shop drawings and submittals for the turf field and track. This includes coordinating the specific sports lining for each area with the CM and owner for final review.
84. Provide all concrete foundations, slabs and stones areas as required for the **bleachers and grandstands as well as the mobile bleachers at field areas.** (Addendum No. 1) Including excavation, backfill, concrete, reinforcing clean up and fine grading and sodding of disturbed areas. **This includes asphalt paving under all bleacher areas.** (Addendum No. 1)
85. Provide Synthetic turf, including subbase preparation, subbase completed, shock pad, stone aggregate drainage layer, concrete curbs, and clean up after installation area as directed by the contract documents. This applies to the (include all required soil stabilization at subbase)
86. The Turf Shock Pad shall be delivered and kept sealed until use/installation
87. Provide all unloading and material handling for this work.
88. This contractor shall provide all Bio-Retention areas as indicated on the contract documents complete. Including all planting's, Bio-Media materials, etc. and maintenance of planting as identified. This contractor shall provide the required As-Built for submission to DNREC within 1 week of completion of this work. All ponds shall be sodded where grass areas are indicated.
89. The existing sediment pond shall be filled as per DNREC's approval, include structural fill drainage material compacted to 95% of ASTM D698 to complete this area. Provide topsoil and sod at completion.
90. This contract shall provide the concrete "mow" strip adjacent to the field house perimeter. Detail provided on sheet C-500
91. All sidewalks and paved areas indicated on the contract documents are part of this contractors scope.
92. This contractor shall provide all manual swing arm gates complete as Detail shown on sheet C-501 and located on the contract documents.
93. Provide a \$250,000 allowance soil remediation to be allocated by the Owner/Construction Manager. All

unused allowance will be returned to the owner.

94. Provide a \$100,000 allowance for work to be performed at the direction of the Owner/Construction Manager. All unused allowance will be returned to the owner.

CONTRACT NO. E-03: CONCRETE AND REINFORCING

A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

- Technical Specification Sections:

|                |                                                     |
|----------------|-----------------------------------------------------|
| Division 0     | Bidding and Contract Requirements                   |
| Division 1     | General Requirements                                |
| Division 03    | Concrete                                            |
| Section 033000 | Concrete                                            |
| Division 07    | Thermal and Moisture Protection                     |
| Section 071300 | Sheet Waterproofing                                 |
| Section 072100 | Thermal Insulation                                  |
| Section 072600 | Under-Slab Vapor Barrier                            |
| Section 079100 | Preformed Joint Sealants                            |
| Section 079200 | Joint Sealants                                      |
| Section 312000 | Earth Moving                                        |
| Section 312300 | Excavation and Backfill for Pipeline and Structures |

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide concrete footings, foundations, foundation walls, piers, wall footings, grade beams, slabs on grade, slabs on deck, structural pads, equipment pads, dumpster pads etc. and all excavation, backfill, stone subbase, forms, and reinforcing required. Note: the following buildings are included in this scope of work, Field House, E1, E2, E3, E4, E5, E6, E7, E6S and E7S. (review Alternate section as it applies)
2. This Contractor will be responsible for laying out all concrete work as shown on the structural and architectural drawings and certifying the layout. Provide certification in writing to CM for their records.
3. This Contractor to furnish and install reinforcing steel, admixtures, curing compound, sealers, accessories, bolsters, ties and braces as required in the Contract Documents and for the performance of the work of this contract.
4. Provide Preformed Joint Seal systems and all Joint Sealants related to work of your contract.
5. This contractor shall provide installation of sleeves required for MEP lines, under footings, below frost walls, under thickened slabs, etc. This includes all excavation and backfill required for these installations. (sleeves will be supplied by the contractor installing the services in BP-E) Coordinate with Arch and MEP documents for full extent of this work.
6. Provide all door stoops, pads, entrance/exit concrete complete as detailed on the structural and architectural documents. This will be out of sequence work, contractor to include (5) re-mobilization to perform work out of sequence, this shall include premium costs for short load concrete pours, concrete pumps, contractors' equipment costs and misc. small tool expenses. For

each mobilization the contractor shall communicate in writing to the CM that they are remobilizing and utilizing one of the (5) remobilizations included in their base bid. Until all (5) mobilization as described are completed, no claims for costs related to this work will be accepted.

7. Provide exterior concrete slabs, turndown slabs, equipment foundations and housekeeping pads as shown on the contract documents.(all contract documents) This will be out of sequence work, contractor to include (3) re-mobilization to perform this work out of sequence, this shall include premium costs for short load concrete pours, concrete pumps, contractors' equipment costs and misc. small tool expenses. For each mobilization the contractor shall communicate in writing to the CM that they are remobilizing and utilizing one of the (3) remobilizations included in their base bid. Until all (3) mobilization as described are completed, no claims for costs related to this work will be accepted. **The exterior concrete slabs are indicated as structural on the drawings and are provided by this contractor. The Site contractor would own the standard sidewalks which are indicated as "civil" on the drawing notes. Provide the exterior slab as shown on FA-541 Detail A1 typical at all similar conditions. (Addendum No. 1)**
8. Provide thickened slab footings at all interior CMU walls as shown on the structural and architectural drawings including all notes and the contract specifications. This contractor owns the coordination and verification of all thickened slabs, haunches etc. whether identified on structural or architectural documents, including the contract specifications.
9. Underslab vapor barrier, insulation, reglets, waterstops, control and construction joints (including required caulking at control and construction joints).
10. Provide foundation wall insulation and insulation under slabs. Include backfill of all foundation walls as detailed. Stone under slab to be provided by this contractor. Include at no additional cost re-dressing the stone after the MEP contractors have installed their UG work.
11. Placement of related items furnished under other Specification Sections.
12. Anchor bolts and leveling plates to be installed by this Contractor and furnished by the Structural Steel contractor. Installation within required tolerances. Anchor bolt assemblies to be placed with templates only. This contractor shall include grouting of the leveling plates.
13. Contractor shall supply signed/sealed engineered drawing as-builts to steel the erector for coordination prior to steel placement. This engineered sheet shall be reviewed by the CM, Steel contractor and this contractor at a site meeting in person before acceptance by all parties. Steel erector must sign off that the placements are accurate and accepted. If there are discrepancies; ownership of the error, corrective actions and costs of the repairs shall be identified and assigned to the responsible contractor.
14. All blockouts and embedments required by plans and specifications.
15. This Contractor is responsible for grouting all structural steel base or leveling plates.
16. Include all weather, frost protection, and water pumping as required. This Contractor is also responsible for the premiums required for hot water, heated aggregate and admixtures for cold weather concrete.

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17. Coordinate the "Notch" in the concrete slabs to allow for a future Contractor to easily install expansion joint details.
18. Provide dewatering after acceptance from Sitework Contractor until re-acceptance by the Sitework Contractor.
19. The sitework contractor is to provide a flat, compacted surface at subgrade prior to the start of foundation layout and installation. This contractor shall furnish, install and maintain the stone underslab for the SOG area and structural pads. Written acceptance of the building pad condition will be provided by the concrete contractor before foundation work proceeds. Once the Concrete Contractor has accepted this work it will be the responsibility of the Concrete Contractor to maintain and dewater the building pad and all excavations until the concrete work is complete and backfilled. The Concrete contractor is to provide access to foundation excavations for the Masonry contractor. Concrete contractors own dewatering during masonry and waterproofing work and backfill after foundation masonry work is complete. Spoils left after backfilling of foundations is complete are to be left outside the building perimeter by the concrete contractor in pre-determined stockpile location in accessible areas. The material will then be gathered by the sitework contractor and spread on site. Concrete Contractor will also be responsible for additional excavation and backfilling within the building as may be required to accommodate the sloped floors, varying slab thicknesses, depressed slabs and grade changes. Close coordination with the Sitework, Masonry, Mechanical and Electrical Contractors is required.
20. This contractor shall re-grade the stone slab areas to prepare for the vapor barrier installation after "all" other contractors have installed their UG work. This includes but is not limited to UG work associated with MEP trades.
21. This contractor shall provide all de-watering measures as required to perform the work of their contract. Refer to Geo-Tech reports for estimated ground water depths and prepare your bid accordingly.
22. Additionally, over and above de-watering for your course of work, provide (2) 2'x2' crocks, stone infill and sloping of graded area to allow for general de-watering as directed by CM. Areas of use to be coordinated with Superintendent on site.
23. This contractor shall provide all excavation to depths and areas required to allow proper forming, pouring and stripping of all concrete work identified on the contract documents. (All contract documents, not just Structural's)
24. Provide and maintain perimeter fall protection at excavated area per OSHA standards. Orange barrier fencing shall be utilized, no caution tape will be allowed.
25. Provide certified anchor bolt verification drawings to the Construction Manager for review prior to steel erection.
26. Asphalt concrete paving and Portland cement concrete paving, sidewalks and curbs shall be provided by others.

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27. All concrete testing will be completed by the Construction Manager; however, it will be the responsibility of this Contractor to furnish all samples.
28. Provide off site disposal of all unsuitable excavated materials.
29. Construction Manager to ensure that FF/FL compliance is verified by an independent testing agency within 48 hours of completion of pour, per ACI (Section 8.15.4). A report must be provided to the concrete contractor within 72 hours of pour per ACI to allow corrective action.
30. Provide specified sloping for floor drains/trenches as detailed (Drains to be furnished by Mechanical Contractor.) This contractor to communicate and review drain sloping with CM before each pour.
31. This Contractor shall include the finishing of concrete slabs around all stub ups, conduits, drains etc. as indicate on project documents. The items will consist of electrical boxes, stubbed conduits, mechanical piping and electrical and technology conduit stubs, etc. Include finishing around (30) un-identified items within your base bid.
32. This Contractor shall also include all work included in finishing the concrete floors to a minimum of (25) floor drains and or trench drains. Include all sloping and beveling to create a positive flow to the drains. Sloping to be reviewed with the CM prior to each pour.
33. This Contractor shall provide written documentation that all concrete slabs are within the tolerance required by the contract documents.
34. There shall be no minimum number of square feet required or mandated by the contractor for S.O.G pours.
35. Provide all foundation and below slab waterproofing. Provide waterproofing at blind side of concrete footings and all foundations. (sheet waterproofing and protection board included) Include all testing as specified. This contractor shall provide de-watering of the areas to receive waterproofing as well as cleaning and drying of the surfaces prior to application.
36. This contractor owns coordinating all slab depressions identified on the documents with the products, flooring, insulation etc. shop drawings and layout drawings for each material that will be installed in the recess. A pre-install meeting will be held to review this information before each depressed pour.
37. Provide Column diamond protection after floor pours are completed at all recessed columns to meet OSHA Requirements. 1926.502(i)(2) All other covers shall be capable of supporting, without failure, at least twice the weight of employees, equipment, and materials that may be imposed on the cover at any one time.
38. Provide all means of transporting concrete including, but not limited to: pump trucks, cranes, ramps, chutes, buggies.
39. Provide at least 48 hours' notice prior to any delivery. All deliveries are to be between 7:00 AM and 3:30 PM.

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40. This is not a secure site. All contractors are responsible for concealing, locking and/or removing any materials on a daily basis. NCCVT and EDiS will not be responsible for any lost tools, materials or equipment.
41. This contractor must provide a silica exposure plan that meets or exceeds the silica OSHA requirements before any work can commence. At a minimum, it must be implemented into the company safety plan, include all monitoring, testing, limits exposure, provide respiratory plan and/or equipment modifications such as adding water to equipment during exposed work and keep records of exposure.
42. Provide daily fine cleanup of the work is the responsibility of each individual Contractor which includes broom cleaning of their debris as required. Daily Fine clean up, on a daily basis, shall be defined as those means/methods utilized to perform the daily cleaning tasks without producing dust, noise and stacking of stored materials. Furnish fine clean up on a daily basis. All debris must be removed from the work area at the end of each workday to the appropriate dumpster. Cleaning of roadways shall be included and performed daily while this contractor is on site performing work of this contract.
43. Provide generators and other means for temporary services for the completion of your work.(CM/Owner will not provide temporary power)
44. All materials excavated for installation of footings and foundations shall immediately be protected with appropriate moisture protection. This Contractor owns protecting excavated backfill material from exposure to wet conditions.
45. Provide pricing for alternates as described in Section 012300-Alternates.
46. This contractor shall include an allowance amount of \$30,000 within the base bid for work to be identified by NCCVT and the CM. All unused portions of this allowance to be returned to the owner.

CONTRACT NO. E-04: STRUCTURAL STEEL, JOISTS, DECK AND MISC. METALS

A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

- Technical Specification Sections:

|                |                                   |
|----------------|-----------------------------------|
| Division 0     | Bidding and Contract Requirements |
| Division 1     | General Requirements              |
| Division 05    | Metals                            |
| Section 051200 | Structural Steel                  |
| Section 052100 | Steel Joist                       |
| Section 053100 | Steel Deck                        |
| Section 055000 | Metal Fabrications                |
| Section 055133 | Metal Ladders                     |

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide structural steel, joists and metal floor and roof decking.
2. Provide all miscellaneous steel as required by the contract documents including but not limited to gauged steel support angles, metal stairs, metal ladders, lintels, etc. Loose lintels will be delivered only, all other Misc. Metals items and gauged angles will be furnished and installed. Note: the following buildings are included in this scope of work, Field House, E1, E2, E3, E4, E5, E6, E7, E6S and E7S. (review Alternate section as it applies)
3. All lintels for CMU and Brick walls will be steel; no concrete lintels will be utilized.
4. Furnish Misc. Anchor bolts and plates as required for the bleacher system installation.
5. Furnish anchor bolts and leveling plates to the Concrete Contractor for placement in concrete piers.
6. Furnish Cable protection and flags as required during and after erection of steel. (flags must be installed as cable is installed) Provide warning lines with flags for swing radius and work areas (include Signage)
7. Field check all anchor bolts prior to beginning erection and sign the anchor bolt survey drawing provided by the concrete contractor.
8. Roof sump pans and related work, including supporting steel frames, braces, brackets etc. related to roof drains. (as indicated)
9. Framing out for openings (roof drains, mechanical openings, access hatches, etc.). Assume opening frames will be field installed. This contractor shall provide "all" floor opening and roof deck opening frames, angles, reinforcing, clips, welding etc. as indicated on the contract documents.
10. Prime paint systems, galvanizing, and related finishing of steel items, including touch up. Provide

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11. Furnish, install, maintain and remove perimeter safety steel cables at roof level to conform with all OSHA standards for all trades. Install flagging on cabling at time of installation.
12. The Steel Contractor will own all connections to masonry whether they are field welds or shop welds. Conditions that require in field welding and assembly are the responsibility of this Contractor. Field coordination with the masonry installer will be this Contractor's responsibility.
13. All steel testing will be the responsibility of the Construction Manager; however, this Contractor will co operate with the testing agency in the inspection at the fabrication shop and in the field.
14. Layout, installation and alignment of attachments at the slab edge condition.
15. No electrical power for this contractor's equipment or welders will be provided. Electrical power to be provided as needed by this contractor.
16. Provide data and submittal information related to the Scope of this Contract signed and sealed by a Professional Engineer as required by the Contract Documents.
17. This Contractor shall fabricate, weld and install all reinforcing anchors that connect the structural steel to the masonry systems. Provide all shop fabrication, field installation and field welding regardless of the weld symbols.
18. This Contractor shall include all necessary staging, rigging, matting and remobilizations to accommodate this erection sequence. Sequencing of work will need to be coordinated with CM and other trades.
19. Remove, modify, and replace the plywood covers installed by the concrete contractor at all Diamonds during the erection of steel, as required to meet OSHA requirements.
20. This is not a secure site. All contractors are responsible for concealing, locking and/or removing any materials on a daily basis. EDiS will not be responsible for any lost tools, materials or equipment.
21. This contract shall include in their bid the necessary crews to complete the work as per the project schedule. Provide additional crews as required to maintain schedule at no additional cost to the project.
22. Provide all BIM services as specified in Section 013700 BIM Execution Plan. As part of the coordination process all contractors are responsible for obtaining a Revizto license. The cost of this license is \$1,500 and shall be included in your base bid proposal.
23. Provide pricing for alternates as described in Section 012300-Alternates.
24. This contractor shall include an allowance of \$20,000 for work to be identified and assigned by the owner/CM. Any unused portions of the allowance will be returned to the owner.

CONTRACT NO. E-05: UNIT MASONRY

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

Technical Specification Sections:

|                |                                                  |
|----------------|--------------------------------------------------|
| Division 0     | Bidding and Contract Requirements                |
| Division 1     | General Requirements                             |
| Section 033000 | Concrete (coordination)                          |
| Section 042000 | Unit Masonry                                     |
| Section 044316 | Stone Fabrications                               |
| Section 070553 | Fire and Smoke Assembly Identification           |
| Section 072100 | Thermal Insulation                               |
| Section 072500 | Weather Barriers                                 |
| Section 072640 | Sprayed Polyurethane Foam Insulating Air Barrier |
| Section 076200 | Sheet Metal Flashing and Trim                    |
| Section 078400 | Firestopping                                     |
| Section 079100 | Preformed Joint Sealers                          |
| Section 007900 | Joint Sealers                                    |

This contract provides and includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide masonry work indicated on the construction documents, including but not limited to masonry units, cast stone, stone fabrications, reinforcing, grout, accessories and related work.  
Note: the following buildings are included in this scope of work, Stadium, Field House, E1, E2, E3, E4, E5, E6, E7, E6S and E7S. (review Alternate section as it applies)
2. Provide work specified in Section 044316 Stone Fabrications.
3. Provide all special shape, cast stone masonry and custom masonry units as defined in the construction documents.
4. This contract shall provide all Sprayed Polyurethane Foam Insulating Air Barrier with intumescent coatings, special paint layer per NFPA 285, and all "Self-Adhering Flashing Tape" at all locations (vertical and horizontal) behind vertical brick, block, metal panels, canopies and overhangs. The Flashing tape shall be applied to seal all exterior openings, including but not limited to doors, louvers, windows, curtain walls, storefronts etc. This includes all exterior sheathed areas, and block back up areas, whether behind masonry or not. Include spray insulation termination angles as needed for the spray foam insulation installation Coordination of work with other trades shall be required and final installation work to be coordinated with project schedule and CM. Provide a "complete system" in its entirety for this project.
5. This contractor shall include multiple mobilizations within their base bid amount to accommodate the exposure time recommendation for the sprayed insulation, special coatings and self-adhering flashing tape in all areas per the construction schedule and project phasing. (include all "Blueskin" application as required)

6. This contractor shall provide installation and coordination of sleeves required to go through any masonry walls above finished floor elev. 0.00. Coordinate with the MEP contractors for sleeves (to be provided by MEP contractor) and coordinated/installed by the Masonry contractor.
7. Provide all caulking and sealants for masonry to masonry and masonry to dissimilar materials.
8. Integral masonry flashings, expansion joints, insulation and other related items as required.
9. Mock up as required. Provide a complete mockup of all masonry items within a sample wall to be coordinated by the CM. This contractor to provide and install the concrete footing required for the mock up. Include demolition, removal and clean up of the mock up area.
10. This contractor shall include within their bid the incorporation of **200 hours of CO OP participation** by a NCCVT student. Contractor to comply with project documents and requirements set forth in 19 del. C.ch.5.
11. Grouting of door frames at all masonry openings. Include grouting of HM vision panels in CMU.
12. Weather protection and temporary heat as required to perform the work and maintain the project schedule. This would include tenting, tarping, heating (providing fuel and equipment), installation, maintenance and removal. Kerosene is not an acceptable fuel for work within the interior spaces.
13. Layout of the work including responsibility for all elevations and dimensions as they affect other Contractor's work.
14. Lintels either required by this Contract or install loose lintels furnished by others. Include bolting or welding of lintels as per details. "All lintels will be steel, and provide by the steel contractor for your use.
15. Provide mixing stations as required to perform your work. The station locations shall be coordinated with the CM The mixing area shall be protect as required by DNREC and it shall be this contractors responsibility to maintain the station area at all times. Remove all components and restore area when work of this contract complete.
16. Concrete fill/grout at all masonry units as identified.
17. Provide a concrete dumpster to collect and remove the spoils from all masonry grouting operations.
18. Purchasing and installing reinforcing steel in block walls.
19. Provide all fire safing/fire stopping, and continuous fire sealant at top and bottom of masonry walls as shown on the contract documents. Also include these sealants at all steel penetrations through the provided masonry.

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20. This contractor shall provide the required firewall/smoke wall assembly identification for work of this contract. (labelling of the walls with fire rating)
21. Interior exposed masonry walls shall be cleaned and scraped thoroughly; a second pass of scraping and refining the cleaning shall be included in the base bid. CM to review and coordinate second pass with the masonry foreman in the field.
22. Temporary protection for final wash down/cleaning of masonry. This includes covering and protecting the windows and doors as necessary.
23. This contractor shall supply and install straw at the base of wall when work of this contract has been completed to stop splashing of mud and water on completed walls.
24. Flashing at locations indicated on drawings for your work.
  - a) Thru wall and cavity flashing below the roof line shall be by the Masonry Contractor.
  - b) Thru wall and cavity flashing above the roof line shall be by the Roofing Contractor.
  - c) Flashings at rising wall conditions shall be provided by this contractor.
25. Cutting, fitting and building into masonry work, embedments provided by others. Coordinate all work with other trades as required.
26. Provide all firesafing and fire caulking as required for your course of work.
27. Provide masonry veneer anchors as required for your course of work.
28. Bond beams including supplying and installing reinforcing and fill.
29. Furnish and install all masonry veneer anchors where required. Welding of anchors that are not shown to be fabricated with the structural steel shall be welded in place as needed by this contractor.
30. Masonry contractor shall supply and manage dumpsters for use in removal of masonry debris. The project dumpsters may not be used for masonry debris.
31. Mockup as required. Provide your portion of a complete mock-up of the exterior wall assembly. Coordinate with the CM.
32. Provide generators and services as required to provide temp power, water etc. as needed for your course of work. CM/Owner will not be supplying any Temporary power.
33. This is not a secure site. All contractors are responsible for concealing, locking and /or removing any materials on a daily basis. EDiS will not be responsible for any lost tools, materials or equipment.
34. This contract includes all Division 0 and Division 1 General Requirements. All commissioning requirements are identified in Division 1 and are a requirement of this contract.

35. Provide pricing for alternates as described in Section 012300-Alternates.
36. This contractor must provide a silica exposure plan that meets or exceeds the new 2017silica OSHA requirements before any work can commence. At a minimum, it must be implemented into the company safety plan, include all monitoring, testing, limits exposure, provide respiratory plan and/or equipment modifications such as adding water to equipment during exposed work and keep records of exposure.
37. Include within this contracts base bid an allowance of \$25,000 for work to be determined by owner and construction manager. Unused allowance funds to be returned to the owner.

CONTRACT NO. E-06: GENERAL TRADES-CARPENTRY, CFMF, GYP ASSEMBLIES, ACT CLGS.

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

Technical Specification Sections:

|                           |                                                                         |
|---------------------------|-------------------------------------------------------------------------|
| Division 0                | Bidding and Contract Requirements                                       |
| Division 1                | General Requirements                                                    |
| Section 055000            | Metal Fabrications (related work)                                       |
| Section 054000            | Cold-Formed Metal Framing                                               |
| Section 054400            | Cold Formed Metal Trusses                                               |
| Section 061000            | Rough Carpentry                                                         |
| Section 070553            | Fire and Smoke Assembly Identification                                  |
| Section 077100            | Roof Specialties (blocking coordination)                                |
| Section 072100            | Thermal Insulation                                                      |
| Section 072640            | Spray Polyurethane Foam Insulating Air barrier (coordination)           |
| Section 072500            | Weather Barriers (coordination with mason contractor)                   |
| Section 078400            | Firestopping                                                            |
| Section 079100            | Preformed Joint Sealants                                                |
| Section 079200            | Joint Sealants                                                          |
| Section 081113            | Hollow Metal Doors and Frames (coordination, handing, installation)     |
| Section 083100            | Access Doors and Panels                                                 |
| Section 083300            | Rolling Service Doors                                                   |
| Section 084313            | Aluminum Framed Storefronts (install frames-provide glazing)            |
| Section 087100            | Door Hardware (coordination, handing, installation)                     |
| Section 080671            | Door Hardware Schedule (coordination, handing, installation)            |
| Section 088000            | Glazing                                                                 |
| Section 089100            | Louvers                                                                 |
| Section 092116            | Gypsum Board Assemblies                                                 |
| Section 095100            | Acoustical Ceilings                                                     |
| Section 096500            | Resilient Flooring                                                      |
| Section 102113            | Plastic Toilet Compartments                                             |
| Section 102800            | Toilet Accessories                                                      |
| Section 104400            | Fire Protection Specialties                                             |
| Section 105100            | Metal Lockers                                                           |
| Section 107316.13         | Metal Canopies                                                          |
| Section 114000            | Food Service Equipment                                                  |
| <b>Section 116833</b>     | <b>Baseball/Dugout Equipment (Addendum No. 1)</b>                       |
| Section 116843            | Exterior Scoreboards (Baseball & Softball)                              |
| <del>Section 116843</del> | <del>Exterior Scoreboards (Football &amp; Track)</del> (Addendum No. 1) |
| <b>Section 116844</b>     | <b>Stadium Scoreboard &amp; Outdoor Live Display (Addendum No. 1)</b>   |
| Section 123600            | Countertops, Backsplashes and Window Stools                             |
| Section 129300            | Site Furnishings                                                        |

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

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1. Provide all cold formed metal framing, sheathing, insulation, metal stud framing, gypsum assemblies and drywall as indicated on the contract documents. (includes CFM Trusses)
2. This contractor owns all contract documents, which includes but is not limited to the following areas of work, Stadium, Field House, E1, E2, E3, E4, E5, E6, E7, E6S and E7S. (review Alternate section as it applies)
3. Provide metal studs, framing, insulation, gypsum wallboard, taping, spackling and specified wall finishes. Include all trims and finish pieces for a complete installation.
4. Provide all engineered metal truss roofing systems complete, including all delegated design requirements. (include within your base bid expedited shop drawing submissions and reviews)
5. This contractor shall be responsible to coordinate with the masonry contractor as related to the exterior wall assembly and the installation of the spray foam insulation system. installation.
6. Include fire taping and sealing at perimeter edge and as shown or indicated in the contract documents.
7. Provide architectural expansion joint systems, including joint covers materials at concrete slab, drywall and masonry construction (interior and exterior)
8. Steel stud construction as related to the roof parapet construction.
9. Steel stud construction related to framing out for openings in exterior walls.
10. Provide secondary support framing as required.
11. Clips, anchors, supports and other accessories that interface between steel framing and steel studding and steel studding with masonry interaction.
12. Expansion systems as required for performance of your course of work.
13. Scaffolding, lifts, and all necessary equipment required for your contract's course of work.
14. Provide engineered drawings (delegated design requirements.)
15. This contractor shall be responsible for coordinating with other trades for exterior openings and layout of design features.
16. Provide labor and materials to perform the work related to all carpentry and general work.
17. Provide all glass and glazing.
18. All rough carpentry related to the exterior skin of the building and roof areas, including wood nailers and blocking, roof blocking, curb blocking, MEP blocking coordinated with MEP trades. This will include all galvanized angles at blocking locations for support as detailed.

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19. All rough carpentry related to the interior of the building including blocking, wood nailers, etc. for the installation of fire extinguishers, doors, windows, toilet accessories, cabinets, toilet partitions, counter tops, AED's, rollup doors, coiling doors, and accessory blocking, etc. including fire treating as required. Provide all roof framing, wall framing and sheathing
20. Provide all counter tops, back splashes and accessories.
21. Provide and install plywood back boards on all wall areas, floor to ceiling in all electric, MDF and IDF rooms. Backboards to be  $\frac{3}{4}$  inch plywood, painted one side with white Fire Proof paint and fire caulked to the walls tightly.
22. Provide blocking and anchoring for all roof ladders, TV and monitor mounts, Visual display boards, chalk, tack, white board assemblies, lockers etc. Coordinate with other trades for locations and installation direction.
23. Provide blocking for door hold opens, wall mounted closers, and wall door stops.
24. Install Aluminum storefront vision panels and provide glazing for these panels (door contractor to supply frames)
25. This contractor shall install the interactive displays as furnished by the owner.
26. Install metal doors and frames, including receipt of doors and frames at the curb side. Contractor shall receive the doors, frames and hardware and inventory immediately. This contractor responsible for safe keeping of all materials and shall provide written documentation that all materials were received. All hardware shall be secured in a fully locked and protected area. By this contractor.
27. Install finish hardware related to all doors (hollow metal, wood and coordinate keying with aluminum hardware) including receipt of hardware at the curb side. This contractor is responsible for coordinating door hardware with their work to ensure each opening is properly prepped for hardware being supplied by others. All low voltage wiring within the doors and frames to be installed by this contractor. Conduits and raceways will be provided by the electrical contractor, as well as installation of the electrical supply power and the final power connections to equipment. Final connections of low voltage wiring to hardware to be provided by the Special Systems contractor. This contractor to work with the electrical contractor and Special Systems contractor to provide a complete installation. Salto hardware will be supplied by the Special Systems contractor and installed by this contractor.
28. This contractor shall advise the hardware supply contractor of any deficiencies or missing item immediately after initial inventory (in writing) as installation takes place. Reporting and tracking is the responsibility of this contractor.
29. All field trimming required to adjust to the existing in place conditions shall be part of this contractors scope of work. Field measuring and verification is to be included.
30. Anchoring devices, fasteners, inserts and other related items associated with the installation of the above items.

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31. Provide all architectural louvers, including insulated panels etc. All louvers are to be included within this contract, they are shown on the architectural drawings and specs and referenced by MEP documents. Provide 'custom' color costs in the base bid. This contractor shall coordinate with other trades for integration of the louvers into their course of work. All material handling and on site protection of the louvers is this contractors responsibility.
32. Provide blocking and support for the Visual Display Boards and Display Case
33. Provide all Plastic toilet compartments, toilet accessories, fire protection specialties and metal lockers.
34. This contractor shall provide and install all Site Furnishings as detailed in the contract documents. Include all work related to this course of work, concrete pads, anchoring, touch up paint etc.
35. **This contractor is to provide all work associated with Section 116833 Baseball/Dugout Equipment. (Addendum No. 2)**
36. **This contractor shall provide all work associated with Section 116844 Stadium Scoreboard & Outdoor Live Display (Addendum No. 2)**
37. **This contractor is to provide all work associated with Section 116843 Exterior Scoreboards (Baseball & Softball) (Addendum No. 2)**
38. This contractor to coordinate all card reader blocking requirements with Special Systems contractor.
39. Provide Exterior Scoreboards complete, including required excavation and foundations. Provide (2) separate scheduled training sessions within your base bid)
40. Provide Food Service Equipment as per contract documents. **Please refer to revised section 11400 in this Addendum #2. Contract E-06 provides all equipment as per this spec section. This includes any blocking, set up and coordination with other trades. (Addendum No. 2)**
41. This Subcontractor shall at a minimum provided, maintained, and inspect for the length of the project, one temporary fire extinguisher for each 3,000 sq. ft of the protected building area. Travel distance from any point of the protected area to the nearest fire extinguisher shall not exceed 100 feet. In multistory buildings, at least one fire extinguisher shall be located adjacent to stairway. Fire extinguishers shall be at least 10lb, Multi-Purpose (ABC) dry chemical, UL labeled, with a rating of 3a:40bc. Maintain for the duration of the project until substantial completion to ensure coverage and compliance.
42. Coordinate electrical requirements with any automatic door operations. This contractor owns all controls, switches and wiring as required for a complete system. Power to be supplied by Electrical contractor.
43. Provide three Knox Boxes coordinated with the local fire company for installation at locations identified by the owner/CM.

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44. This contractor will work with the Special Systems contract to allow the installation of harnesses, whips and connections while installing frames, doors, hardware and access controls.
45. Provide (1) scaffold stairway, to be erected to accommodate access to the roof area from the exterior of the building. Include a rental duration of 7 months.
46. This is not a secure site. All contractors are responsible for concealing, locking and /or removing any materials on a daily basis. EDiS will not be responsible for any lost tools, materials or equipment.
47. This contractor must provide a silica exposure plan that meets or exceeds the new 2017 silica OSHA requirements before any work can commence. At a minimum, it must be implemented into the company safety plan, include all monitoring, testing, limits exposure, provide respiratory plan and/or equipment modifications such as adding water to equipment during exposed work and keep records of exposure.
48. Layout of the work including responsibility for all elevations and dimensions as they affect other Contractor's work.
49. Provide all work related to the building mock up, blocking, installation of door frame, doors, hardware, flashings, fasteners etc. as it relates to mocking up of the systems included in this contract scope.
50. This contractor shall provide temporary rails at all exterior opening on the building until permanent window/doors/curtainwall etc. installed.
51. This contractor shall include protective wooden covers and marking for any floor openings, holes, shafts etc. Include labelling of the covers with clear and readable markings or stickers.
52. This contractor shall provide and include all costs associated with installing temporary doors and windows at the exterior of all building (all openings)
53. Provide wood safety barricades to OSHA required height during construction. These rails shall be installed immediately after the roof blocking is installed. These rails/barricades shall stay in place and be maintained until all activities on the roof area are complete or as directed by the CM. Coordinate removal, roof patching etc. with roofing contractor and CM.
54. Comebacks and out-of-sequence work may be required and as such should be included in your base bid proposal.
55. No power for welding equipment will be provided. This contractor shall provide portable generators, fuel, etc. to power equipment required for their scope of work.
56. Coordinate Self Sealing Flashing installation at base of wall assemblies and flashed areas. with Masonry contractor who is providing. This contract to provide any required metal flashings for your course of work.

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57. This contractor shall supply and install any access panels in the exterior wall assembly that are required by the contract documents. In addition the contractor shall install (10) 2'X2' Access panels provided by other.
58. Provide fire resistant joint sealants, fire safing, fire stopping, as it relates the work of your contract.
59. This is not a secure site. All contractors are responsible for concealing, locking and /or removing any materials on a daily basis. EDiS will not be responsible for any lost tools, materials or equipment.
60. This contractor must provide a silica exposure plan that meets or exceeds the new 2017 silica OSHA requirements before any work can commence. At a minimum, it must be implemented into the company safety plan, include all monitoring, testing, limits exposure, provide respiratory plan and/or equipment modifications such as adding water to equipment during exposed work and keep records of exposure.
61. Layout of the work including responsibility for all elevations and dimensions as they affect other Contractor's work.
62. This contractor shall include within their bid the incorporation of **150 hours of CO OP participation** by a NCCVT student. Contractor to comply with project documents and requirements set forth in 19 del. C.ch.5.
63. This contract shall include in their bid the necessary crews to complete the work as per the project schedule. Provide additional crews as required to maintain schedule at no additional cost to the project.
64. This is not a secure site. All contractors are responsible for concealing, locking and /or removing any materials on a daily basis. EDiS will not be responsible for any lost tools, materials or equipment.
65. Include all necessary field measurements.
66. Include three (3) passes per floor to "touch-up" mechanical penetrations to ensure ratings required. The first pass will be required prior to ceiling grid installation and the second pass will be required prior to final inspection for Certificate of Occupancy.
67. Bidders are advised to pay particular attention to top of wall conditions, fire and smoke safing of slabs and acoustical sealants. This work is include within the scope of this contract.
68. This contractor to provide caulking at the base and top of drywall partitions, furred walls and all drywall conditions.
69. This contractor shall work with other trades to install openings that are in wall assemblies being constructed.
70. Provide metal furring as required.

71. Engineered shop and installation drawings. (delegated design, with expedited submission and review costs included)
72. Provide complete acoustical ceiling systems to include suspension system, hangers and all required components for a complete system.
73. Acoustical lay in insulation blankets and rigid panels above ceilings and behind wall grid systems as identified in the contract documents.
74. Supplemental suspension hangers at large ducts above ceilings and at openings for lighting fixtures shall be provided and coordinated to minimize exposed clips, anchors, and wires.
75. Continuous acoustical sealant on back of vertical leg before installing moldings as indicated
76. Furnish and install hold down clips where required by governing regulations for fire resistant ratings.
77. Provide all material handling, scaffolds, lifts, Spyder cranes, access to work etc. as required for the scope of this contracts work.
78. Expansion joints for all acoustical ceilings, specialty ceilings and acoustical systems.
79. Provide ceiling grid layout on floor for cassette and duct placement in ceiling grid system.
80. This contractor shall review all documents, shop drawings, plans, and drawing model for ceiling height issues. All issues shall be reported to the EDiS prior to installing wall angles.
81. This Contractor shall cut openings in ceilings for sprinkler heads, lights, mechanical diffusers and grilles, etc. Coordinate work with other trades.
82. Coordinate with other trades for layout and install of their materials into the grid system provided by this contract.
83. Attic stock as per the contract documents, delivered, inventoried, and moved to a storage area within the building at the owner's direction.
84. Provide all resilient base required per Section 096500 Resilient Flooring.
85. Provide all site furnishings.
86. Provide pricing for alternates as described in Section 012300-Alternates.
87. Provide within this contract's base bid an allowance of \$50,000 for work to be directed by the owner and CM. Unused portions of the allowance shall be returned to the owner.

88. Provide an allowance of \$325,000 to provide dumpsters for **Phase I and Phase II** portions of the project. Work to be directed by the owner and CM. Unused portions of the allowance shall be returned to the owner.

CONTRACT NO. E-07: EXTERIOR METAL PANELS AND METAL ROOFING

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

Technical Specification Sections:

|                   |                                      |
|-------------------|--------------------------------------|
| Division 0        | Bidding and Contract Requirements    |
| Division 1        | General Requirements                 |
| Section 054000    | Cold-Formed Metal Framing            |
| Section 055000    | Metal Fabrications (for your work)   |
| Section 074213.13 | Metal Wall and Roof Panels           |
| Section 074213.23 | Metal Composite Material Wall Panels |
| Section 076200    | Sheet Metal Flashing and Trim        |
| Section 077123    | Manufactured Gutters and Downspouts  |
| Section 079100    | Preformed Joint Sealants             |
| Section 079200    | Joint Sealants                       |

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide all metal panels, framing, sub girts, Z furring, insulation and all other components to provide a complete metal panel system for the field house as required by the contract documents.
2. Provide a complete metal siding, roofing, downspouts, gutters and required flashing for building buildings E4 and E5.(review alternate section) This contractor to coordinate closely with the CFMF contractor.
3. Provide all metal panels and accessories as indicated on the contract documents. This includes all panels associated with the stadium, field house and all out buildings as shown.
4. The spray installation system will be provided by the Masonry contractor, however this contractor is responsible to coordination. Specifically for installation durations and the completeness of the installation of the Z furring system this contract is providing. Timely installation to not impact the spray foam installation is required by this scope of work.
5. Provide all fascia's, soffits, overhangs etc. as required for a complete system. Complete system includes all caulking and sealants as required by the provided system.
6. Flashing of panels integral with the panel system.
7. Coordinating, cutting and fitting around the work of other trades is required by this contract and should be part of your base bid work.
8. Caulking of panels as required to provide a complete system. Vertical joints where metal panels meet adjacent materials shall be caulked by this contractor.
9. Miscellaneous metal items necessary to support panels other than required structural steel.

10. Furnish anchorage items for embedding into other construction for support of panels.
11. No electrical power for this contractor's equipment or welders will be provided. Electrical power to be provided as needed by this contractor.
12. Galvanized, epoxy or stainless steel, etc. anchors as specified.
13. Metal fascias and copings related to the panel system
14. All material handling, lifts, cranes etc. are the responsibility of this contractor.
15. Verification of field dimensions is the responsibility of this Contractor. Coordination and review window openings, door openings and others during the shop drawing process is required so materials can be ordered to accommodate schedule. Material may be required to be ordered in advance of the ability to field measure. This coordination is the responsibility of this contractor.
16. Provide all flashing as identified with the metal panel installation. Provide all hat channels and sub-girts for the panel installation. Coordinate with the work of other contractors related to the spray foam installation.
17. This is not a secure site. All contractors are responsible for concealing, locking and /or removing any materials on a daily basis. NCCVT and EDiS will not be responsible for any lost tools, materials or equipment.
18. This contractor must provide a silica exposure plan that meets or exceeds the new 2017 silica OSHA requirements before any work can commence. At a minimum, it must be implemented into the company safety plan, include all monitoring, testing, limits exposure, provide respiratory plan and/or equipment modifications such as adding water to equipment during exposed work and keep records of exposure.
19. Provide pricing for alternates as described in Section 012300-Alternates.
20. Include within this contracts base bid an allowance of \$20,000 for work to be determined by owner and construction manager. Unused allowance funds to be returned to the owner.

CONTRACT NO. E-08: ROOFING

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

Technical Specification Sections:

|                |                                                      |
|----------------|------------------------------------------------------|
| Division 0     | Bidding and Contract Requirements                    |
| Division 1     | General Requirements                                 |
| Section 072100 | Thermal Insulation                                   |
| Section 075300 | Elastomeric Membrane Roofing                         |
| Section 076200 | Sheet Metal Flashing and Trim                        |
| Section 077100 | Roof Specialties                                     |
| Section 077123 | Manufactured Gutters and Downspouts                  |
| Section 077200 | Roof Accessories                                     |
| Section 079100 | Preformed Joint Sealants                             |
| Section 07900  | Joint Sealants                                       |
| Division 26    | Electrical (power, fire alarm, lightning protection) |

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide single ply flexible roofing system, including rigid and tapered insulation and all related accessories. (Field House, Building E1 E2, E3, and all 4 E6 Roofs)
2. This contractor shall carefully review the edge of roof details to determine if the roof can be placed before the exterior wall assembly is complete. This contractor shall include all costs associated with returning to the jobsite to complete the roof perimeter after wall assembly is complete.
3. Provide caulking and joint assemblies related to roofing, flashing and roof accessories.
4. Roof drains and associated plumbing shall be provided by the Mechanical Contractor. Flashing of the roof drains shall be by the Roofing Contractor. Openings for the roof drains in the roofing materials shall be cut by the Roofing Contractor. Openings in the metal deck shall be cut by others. This contractor shall be responsible to coordinate the roof drain locations as needed by the steel contractor and plumbing contractor so reinforcing of the decking and roof support frames may be installed in accordance with the sequence of work.
5. Metal parapet coping, receiver system and all components required for a complete coping assembly. Caulking and sealing of all copings is the responsibility of this contractor.
6. Provide boot for piping and conduits that penetrate the roofing assembly. Coordinate with other trades.
7. Coordinate the roofing installation and flashing required for line sets, piping, electric and control penetrations. Coordinate with MEP contractors.
8. Roof hatches, smoke vents, smoke hatches, access covers etc. are to be provided by this contractor.

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Coordination of this work with other trades and the MEP vendors are required by this contract. Rail systems and curbs to be provided by this contract. The smoke hatches are not accessible shall be provided with remote controllers to test and re-set.

9. Walk pads and walk pad layout shop drawings are required by this contract.
10. Metal drip edges, complete including all caulking and sealants.
11. Gravel stops, complete including all caulking and sealants.
12. Roof curbs to be installed by this contractor, provided by the MEP trades as identified in the contract documents. Coordination with the Carpentry contractor on the roof blocking thickness is required by this contractor. Provide detail shop drawings identifying the insulation thickness so blocking can be installed accordingly.
13. This contractor shall coordinate with the carpentry contractor on location of wood blocking, curbing, etc. to facilitate the installation of the tapered insulation, crickets etc.
14. Provide expansion joints that are integral to the roof.
15. Gutters, downspouts, splash pans, splash blocks. This contractor shall be responsible to coordinate with the plumbing contractor for the connection to the RW system. Provide membrane flashing, metal flashings, sealants, drip edge, gutters, drain covers etc. as related the gutter systems for this course of work.
16. Metal scuppers, over flows, drains etc. as required by the contract documents are this contractors responsibility.
17. Provide a means to lift materials to the roof for materials not stored on the roof at initial time of delivery. All costs shall be the responsibility of the roofing contractor.
18. This contractor shall provide waterproof seals around lightning protection system as required by roof manufacturer requirements. If location of lightning protection conduits are not clearly shown on the roof plan, include within your base bid an additional; cost to seal one penetration for every 1000 sf of roof area.
19. This contractor shall review the schedule for the roofing scope of work and include within the base bid considerations (costs) for cold weather roofing installations. This shall include but is not limited to providing a warming hut/enclosure to keep material warm and allow the roof installation to continue in cold temperatures. All costs related to cold weather roof installation shall be the responsibility of this contractor.
20. The owner may at any time select to have a third party roof inspector review and inspect the roofing installation and finished roof system. This contractor shall work with and allow access to this third party inspector as needed.
21. All trash shall be removed from this contractors work area daily to the dumpsters. No trash may be stored on the roof area.

22. Flashing and sheet metal systems related to the scope of this contract work.
23. This is not a secure site. All contractors are responsible for concealing, locking and /or removing any materials on a daily basis. EDiS will not be responsible for any lost tools, materials or equipment.
24. This contractor shall include within the base bid proposal (2) additional roofing inspections of all roofing assembly to facilitate any damage or overuse repairs that may be required. These inspections will be schedule by the CM within the duration of the construction schedule. These inspections do not in any way take the place.
25. This contractor shall include a \$20,000 allowance within their base bid for work to be determined by the CM and NCCVT. All unused allowance dollars will be returned to the owner.
21. Flashing Summary:
  - a. Thru wall and cavity flashing below the roof line shall be by the Masonry Contractor.
  - b. Thru wall and cavity flashing above the roof line shall be by the Roofing Contractor.

CONTRACT NO. E-09: HOLLOW METAL, WOOD DOORS, AND FINISH HARDWARE

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

Technical Specification Sections:

|                |                                                |
|----------------|------------------------------------------------|
| Division 0     | Bidding and Contract Requirements              |
| Division 1     | General Requirements                           |
| Section 081113 | Hollow Metal Doors and Frames                  |
| Section 081416 | Flush Wood Doors                               |
| Section 087100 | Door Hardware                                  |
| Section 080671 | Door Hardware Schedule                         |
| Section 088000 | Glazing (coordinate with Carpentry contractor) |
| Section 084313 | Aluminum Framed Storefronts                    |
| Section 089100 | Louvers (as related to doors)                  |
| Division 26    | Electrical (coordination)                      |
| Division 27    | Communications (coordination)                  |
| Division 28    | Electronic Safety and Security (Coordination)  |

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Furnish only hollow metal doors, frames, vision panels and finish hardware.
2. Keying. All lock sets. Provide Owner with a complete schedule of all keying and pin schedules as required. (coordinate keying schedule with NCCVT)
3. **This contractor shall coordinate with the Special Systems contractor for coordination of Salto hardware.**
4. Furnish Aluminum Storefront vision panels to be installed by the carpentry contractor.
5. Construction door cylinders shall be provided by this contractor to the Carpentry contractor for use during construction. Plan and include the cost of providing (3) three separate levels of cylinders (green, red, blue) to allow areas to be secured separately as required by the CM. Provide (10) keys per color system.
6. All exterior Hollow Metal frames shall include a box and raceway built into the door frame for locations at the latch and hinge as required. Provide a box and raceway at the head of the frames for door contact access and installation.
7. This contractor shall coordinate the hardware and door materials with the Carpentry contractor prior to ordering materials. Including but not limited to all coordination meetings with the Owner, CM Carpentry contractor and Special Systems contractor as required to properly coordinate all doors, frames, hardware and connections, prior to ordering of materials.
8. This contractor shall deliver all materials as coordinated with the installer to the project site in an

orderly organized manner. Deliveries will not be received unless the Carpentry contractor is notified and the delivery is coordinated. The Owner and EDiS will receive any materials. Additionally provide 48 hour notice prior to delivery. All deliveries are to be between 7:00 AM and 3:30 PM (allow time for check in of all hardware when scheduling)

9. Provide field assistance to Electrical and Carpentry Contractor as required to facilitate the installation of the materials supplied by your course of work.
10. This contractor to coordinate with the Special Systems contractor and Electrical contractor to ensure that all cut outs, plates, receiver etc. that are required to be built into your doors and frames are fully coordinated. In person attendance at review and coordination meetings for the doors, hardware, special systems, raceway and electrical connections shall be the responsibility of this contractor.
11. As changes are made to the hardware schedule, whether due to issued ASI's, RFI's, architectural changes etc., this contractor shall make updates to the hardware schedule and re-issue so the schedule is always updated and submitted to EDiS.
12. Coordinate electrical requirements with any automatic door operations.
13. Provide harness lengths to reach above accessible ceilings. Coordination of this work and the lengths required is the responsibility of this contractor. Provide any harness adapters and connectors required allow hardware to have a splice free system.
14. This contractor shall provide all magnetic hold open hardware, including extensions as required.
15. Provide a key box system to hold up to 25% over the amount of keys being supplied. Provide (10) additional Locking Key Box's 18" x12" for NCCVT use.
16. Provide all BIM services as specified in Section 013700 BIM Execution Plan.
17. Provide pricing for alternates as described in Section 012300-Alternates.
18. Coordinate with the Division 28 contractor on all Salto hardware requirements. Salto hardware supplied by Div 28 contractor.

CONTRACT NO. E-10: OVERHEAD ROLLING DOORS AND SHUTTERS

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials, and equipment for:

Technical Specification sections:

|                |                                               |
|----------------|-----------------------------------------------|
| Division 0     | Bidding and Contract Requirements             |
| Division 1     | General Requirements                          |
| Section 055000 | Metal Fabrications                            |
| Section 083300 | Rolling Service Doors                         |
| Division 26    | Electrical (coordination)                     |
| Division 28    | Electronic Safety and Security (coordination) |

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide all rolling service doors, overhead rolling doors and rolling counter shutters as required by the contract documents. To include but not limited to exterior and interior coiling doors systems. Hardware, openers, buttons and controllers required for a complete system shall be provided by this contractor.
2. Provide all overhead coiling grilles.
3. Provide all overhead counter doors.
4. Include all wall framed openings and openings including trims, flashings, and sealants as required to perform your course of work.
5. Provide additional supports for overhead coiling doors. Structural members identified on the structural drawings are not part of this contract scope. Provide ancillary steel, connectors, all thread and other misc. items as required. Coordinate all electrical and special systems requirements for work of this contract with the appropriate contractors. Provide keyed switches for both electric and low voltage to match building keying.
6. Keying coordination for all lock sets. (coordinate with same hardware system as Door Hardware supply contract.)
7. Coordinate electrical requirements with any automatic overhead door operations.
8. Provide low-voltage wiring required for overhead doors automatic door operations. Include all raceways, boxes and switches required for a complete installation.
9. Ensure doors fully open the entire height of the door opening and close with the bottom edge touching the ground. Doors will fit square in the openings with no gaps along the top, bottom or sides when the door is closed.

10. This is not a secure site. All contractors are responsible for concealing, locking and /or removing any materials on a daily basis. EDiS will not be responsible for any lost tools, materials or equipment.
11. Provide all sensing and safety devices as specified for each assembly to provide a complete assembly.
12. Exterior overhead doors and grilles shall have the appropriate specified seals, and weatherstripping at all edges. Top, sides and bottom. Seals shall maintain water tightness when installed.
13. Provide all BIM services as specified in Section 013700 BIM Execution Plan.
14. Provide pricing for alternates as described in Section 012300-Alternates.
15. Provide an Allowance of \$15,000 for work to be determined by the CM and NCCVT. All unused allowance dollars will be returned to the owner.

CONTRACT NO. E-11: FLUID-APPLIED FLOORING

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials, and equipment for:

Technical Specification sections:

|                |                                              |
|----------------|----------------------------------------------|
| Division 0     | Bidding and Contract Requirements            |
| Division 1     | General Requirements                         |
| Section 079200 | Joint Sealants                               |
| Section 090561 | Common Work Results for Flooring Preparation |
| Section 096700 | Fluid Applied Flooring                       |

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide fluid-applied flooring and integral base.
2. Provide mock-ups as required by plans and specifications.
3. Provide standard and custom color samples for review and approval.
4. Provide vapor retarding sealer prior to resinous application, as required by specifications or manufacturer's installation instructions.
5. Provide protection of work of others as well as cutting and fitting around work installed by others.
6. Patching and leveling of areas to receive resinous flooring to be included in the base bid of this contract.
7. Provide cleaning, finishes and protection. Protection shall be RamBoard Pro sheets with Ram tape. Provide protection of finished products until acceptance by Construction Manager.
8. Provide crack suppression membrane required for the work of this contract. The submitted shop drawing for the Resinous Flooring areas shall reflect all control joints, expansion joints and crack suppression locations for review and approval.
9. Provide at least a 48-hour notice prior to any delivery. All deliveries are to be between 7:00 AM and 3:30 PM.
10. This is not a secure site. All contractors are responsible for concealing, locking and/or removing any materials on a daily basis. NCCVT and EDiS will not be responsible for any lost tools, materials or equipment.
11. This contractor must provide a silica exposure plan that meets or exceeds the new 2017 silica OSHA requirements before any work can commence. At a minimum, it must be implemented into the company safety plan, include all monitoring, testing, limits exposure, provide

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respiratory plan and/or equipment modifications such as adding water to equipment during exposed work and keep records of exposure.

12. Contractor must provide additional crews as needed to maintain the project schedule.
13. Include within this contracts base bid an allowance of \$10,000 for work to be determined by owner and construction manager. Unused allowance funds to be returned to the owner.

CONTRACT NO. E-12: PAINTING

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

Technical Specification Sections:

|                |                                   |
|----------------|-----------------------------------|
| Division 0     | Bidding and Contract Requirements |
| Division 1     | General Requirements              |
| Section 079200 | Joint Sealants                    |
| Section 099113 | Exterior Painting                 |
| Section 099123 | Interior Painting                 |

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide all painting (all walls and ceilings indicated on the finish schedule) include all preparation of surfaces, trims and finish wood locations.
2. Provide sealing of all interior joints between dissimilar materials that require sealants before painting.
3. This contractor shall provide "all" interior and exterior painting complete.
4. Paint all exposed block work and concrete work as shown on the room finish schedule and contract documents.
5. Prime, stain or seal, all wood trim and doors as required by the contract documents.
6. Paint exposed piping (sprinkler, plumbing, gas piping, electrical) and ductwork in accordance with the contract documents. Include preparation work for all items specified. Review and coordinate any color requirements specified in the contract documents or as required by code. Pay close attention to MEP documents for specific locations of piping colors.
7. Provide Fire and Smoke Identify markings on all masonry walls that require marking per governing jurisdictions. Coordinate marking walls with painted/stencils with the CM on site.
8. Provide supplementary ventilation as required in enclosed spaces.
9. Paint and caulk all hollow metal frames and doors as shown on the door schedule.
10. Paint metal stairs and railings.
11. Prefinished items WILL NOT be painted by this Contractor.
12. Paint all semi-exposed wood blocking as indicated on the drawing.
13. Include "preparation" of all surfaces and items required to be covered by the scope of this contract.

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14. This contractor shall allow a touch up pass from drywall contractor/mason contractor between prime coat and first coat of finish.
15. Protection of adjacent surfaces required by this contractor.
16. Minor patching prior to application of finishes shall be included in the base bid.
17. This contractor shall provide sealing/hardener of concrete floors, including scraping, brushing, removal of markings, grease, foreign materials and thoroughly cleaning all the floors prior to installation of the sealer/hardener materials. Mechanical cleaning of floors as required prior to sealing. Coordination with other finishes will require multiple mobilizations for the sealer/hardener preparation and installation.
18. Installation of rated wall identification to be provided by this contractor. Access, lifts, ladders etc. to be provided by this contractor.
19. Provide painting of all exterior bollards and gates that are not prefinished.
20. Paint gas lines at both the interior and exterior of the building.
21. All lintels shall be painted by this contractor.
22. Paint all railings and handrails that are not prefinished.
23. Provide cleanup of your work areas and storage areas on a daily basis. Removal of spent paint cans and buckets is the responsibility of this contractor.
24. This contractor shall protect all areas, materials and work of others from over-spray from the work of this contract.
25. Provide at least a 48-hour notice prior to any delivery. All deliveries are to be between 7:00 AM and 3:30 PM.
26. This is not a secure site. All contractors are responsible for concealing, locking and/or removing any materials on a daily basis. NCCVT and EDiS will not be responsible for any lost tools, materials or equipment.
27. This contractor must provide a silica exposure plan that meets or exceeds the new 2017 silica OSHA requirements before any work can commence. At a minimum, it must be implemented into the company safety plan, include all monitoring, testing, limits exposure, provide respiratory plan and/or equipment modifications such as adding water to equipment during exposed work and keep records of exposure.
28. Contractor must provide additional crews as needed to maintain the project schedule.
29. Provide pricing for alternates as described in Section 012300-Alternates.

CONTRACT NO. E-13: BLEACHERS AND GRANDSTANDS

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

Technical Specification sections:

|                |                                   |
|----------------|-----------------------------------|
| Division 0     | Bidding and Contract Requirements |
| Division 1     | General Requirements              |
| Section 061000 | Rough Carpentry                   |
| Section 079200 | Joint Sealers                     |
| Section 131250 | Bleachers, Grandstands            |

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide all Bleachers and Grandstands as indicated on the contract documents. (foundations as detailed provided by Site contractor)
2. Provide bleacher seating systems, both stationary and removable.
3. Provide Press Box configurations as per the contract documents.
4. Verification of field dimensions is the responsibility of this Contractor. Coordinate with the MEP contractors to insure proper installation related to their work.
5. Anchoring devices, fasteners, inserts and other related items associated with the installation of the above items. Provide all material handling and access equipment required for the scope of your contract.
6. All material handling. Loading, moving, lifting of the materials of this contract shall be the responsibility of this contractor. The CM will not receive or unload your materials.
7. Provide at least a 48-hour notice prior to any delivery. All deliveries are to be between 7:00 AM and 3:30 PM.
8. This is not a secure site. All contractors are responsible for concealing, locking and/or removing any materials on a daily basis. NCCVT and EDis will not be responsible for any lost tools, materials or equipment.
9. This contractor must provide a silica exposure plan that meets or exceeds the new 2017 silica OSHA requirements before any work can commence. At a minimum, it must be implemented into the company safety plan, include all monitoring, testing, limits exposure, provide respiratory plan and/or equipment modifications such as adding water to equipment during exposed work and keep records of exposure.
10. Provide pricing for alternates as described in Section 012300-Alternates.

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11. Provide all BIM services as specified in Section 013700 BIM Execution Plan. As part of the coordination process all contractors are responsible for obtaining a Revizto license. The cost of this license is \$1,500 and shall be included in your base bid proposal.
12. Include within this contracts base bid an allowance of \$10,000 for work to be determined by owner and construction manager. Unused allowance funds to be returned to the owner by means of a credit change order.

CONTRACT NO. E-14: FIRE PROTECTION

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

Technical Specification Sections:

|                |                                                      |
|----------------|------------------------------------------------------|
| Division 0     | Bidding and Contract Requirements                    |
| Division 1     | General Requirements                                 |
| Division 22    | Plumbing                                             |
| Division 26    | Electrical                                           |
| Division 32    | Site Improvements                                    |
| Section 312300 | Excavation and Backfill for pipelines and Structures |
| Section 03310  | Cast in Place Concrete                               |
| Section 210500 | Common Work Results for Fire protection              |
| Section 210505 | Fire Suppression System Piping, Fittings and Valves  |
| Section 211003 | Water Based Fire Suppression System-Sprinklers       |

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide piping, fittings, couplings, valves and sprinkler heads to provide a complete Fire Protection Dry Action System.
2. Excavation and backfill related to fire protection work as detailed below is the responsibility of this Contractor. (Geo-Tech reports included for this contractors review)
3. Backfilling is the responsibility of this Contractor. Soil types shall be in accordance with project documents. Backfill materials shall be covered after excavation and protected. If materials become wet and unusable this contractor shall remove the material from site and provide stone dust (#10 stone dust) to backfill all piping trenches and remove unsuitable material off site.
4. Provide As-built drawings in both hard copy and BIM format.
5. Provide concrete equipment pads, curbs and thrust blocks related to the Fire Protection work (sprinkler system) and Fire Pump system.
6. Permits, testing and inspections required for the Fire Protection work are to be provided by this contractor.
7. Providing of sleeve assemblies for work of this contract that penetrates the foundation wall, interior footings or any concrete footings shall be provided to the masonry and concrete contractor for installation. This contractor shall coordinate and assist with the sleeving install. Sleeves are to be sealed per contract documents.
8. Firesafing of all penetration is a requirement of this contract.
9. Design of the system, submissions to the Fire Marshall, review with Fire Marshall and expediting

the permit for the Fire Suppression system is a priority of this contract scope.

10. Flow and tamper and sensor switches to be supplied by this Contractor and wired by the Electrical Contractor. It is this Contractors responsibility to provide flow and tamper switches to meet applicable state and local codes as well coordinate with the MEP contract documents.
11. Dry Pipe Fire Protection System Air Compressor, controller and related work. Electric power wiring of compressor and controller to be by the Electrical Contractor.
12. If a water meter is required when the review process and permitting is completed, this contractor shall purchase, pay for, install and coordinate all work with the required authorities.
13. This Contractor to coordinate the need for and compatibility of his system to the emergency generator, supplied by other.
14. Pipe identification and labelling is a requirement of this contract. Valve labels, etc. are required as per the contract documents.
15. Provide fire main from +/- 5 feet outside building including connection in the building. Final connection of your fire line and the line provided by the site contractor shall be the Fire Protection contractors responsibility. Provide a registered plumbing contractor licensed to perform the tie in as part of you base bid.
16. This contractor will flush the UG system with the assistance of the site contractor and provide written documentation to the CM.
17. All cored walls require sleeves and are required to be sealed per contract documents. Any mess from the coring operation shall be immediately cleaned up by this contractor and shall not affect any installed finishes. If this work is not performed efficiently, the work will be performed by the owner and back charged to this contractor.
18. This contractor shall be onsite while walls are being constructed for layout and installation of valve cabinets, concealed, piping, etc.
19. The work of this contract will require out of sequence installations. This should be considered and included in your base bid.
20. This contractor shall provide all access panels required for the work of this contract. They should be lockable, fire rated where required. Panels shall meet the requirements of the contract documents.
21. This contractor shall include within their bid the incorporation of **75 hours of CO OP participation** by a NCCVT student. Contractor to comply with project documents and requirements set forth in 19 del. C.ch.5.
22. Provide all BIM services as specified in Section 013700 BIM Execution Plan. As part of the coordination process all contractors are responsible for obtaining a Revizto license. The cost of this license is \$1,500 and shall be included in your base bid proposal.

23. This contractor must provide a silica exposure plan that meets or exceeds the new 2017 silica OSHA requirements before any work can commence. At a minimum, it must be implemented into the company safety plan, include all monitoring, testing, limits exposure, provide respiratory plan and/or equipment modifications such as adding water to equipment during exposed work and keep records of exposure.
24. This is not a secure site. All contractors are responsible for concealing, locking and /or removing any materials on a daily basis. EDiS will not be responsible for any lost tools, materials or equipment.
25. Provide the necessary coordination with trades to avoid interferences with other work and make corrections at no extra charge.
26. Include within this contracts base bid an allowance of \$10,000 for work to be determined by owner and construction manager. Unused allowance funds to be returned to the owner.

CONTRACT NO. E-15: PLUMBING, HVAC, AND CONTROLS

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

Technical Specification Sections:

|                |                                                       |
|----------------|-------------------------------------------------------|
| Division 0     | Bidding and Contract Requirements                     |
| Division 1     | General Requirements                                  |
| Division 21    | Fire Protection (coordination)                        |
| Division 22    | Plumbing                                              |
| Division 23    | HVAC (all sections)                                   |
| Division 26    | Electrical (coordination)                             |
| Division 28    | Electronic Safety and Security (coordination of work) |
| Division 26    | Electrical (coordination)                             |
| Division 32    | Site Improvements                                     |
| Section 312300 | Excavation and Backfill for pipelines and Structures  |
| Section 03310  | Cast in Place Concrete                                |

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide a complete system for all plumbing, HVAC, and ATC controls as indicated by the contract documents.
2. This contractor shall provide all pipe insulation, insulation coverings, valve insulation, labelling, and identification of for the plumbing, HVAC and control system.
3. This contract includes all Division 0 and Division 1 General Requirements. All commissioning requirements are identified in Division 1 and are a requirement of this contract.
4. Division 16 of the specifications should be reviewed as it relates to the power wiring and other requirements for HVAC equipment including the coordination of furnishing and installing motor starters as provided in the specifications.
5. Division 26 of the specifications should be reviewed as it relates to the power wiring to trap primers and controls within this contracts scope of work. Coordinate this work with the electrical contractor.
6. Permits, testing, inspections required for the Plumbing and HVAC system work are to be provided by this contractor. This contractor shall pay all permit and inspection fees for the work of their contract.
7. This Contractor shall be responsible to designate an individual within his organization, intimately familiar with this project and assigned on site, to act as the System Start-up Coordinator. This individual must be pre-approved by the Construction Manager. This individual's responsibilities shall include, but not be limited to, coordinating the start-up of all mechanical equipment, including the coordination between the Electrical Contractor, the Controls Contractor, and all

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testing, adjusting and balancing work. This individual shall report on a weekly basis, in written form, to the Construction Manager. These reports shall include a summary of current conditions including manufacturers' start-ups, systems' deficiencies noted to date and the remediation of same, coordination issues between trades, system interfacing and forecasting, as necessary to project the completion of each individual system within the building.

8. Excavation and backfill for underground plumbing work as detailed below is the responsibility of this Contractor. Soil types shall be in accordance with the contract documents Refer Section 312300 for requirements on soils. (Geo-Tech reports included for reference and use)
9. Backfilling is the responsibility of this Contractor. Soil types shall be in accordance with project documents. It is the intent to use on site material and not imported fill. The use of this on site material shall conform with the compaction requirements identified in Section 312300. Excavated materials shall be covered immediately and protected from moisture mitigation. If Materials become unusable, this contractor shall own purchasing #10 stone dust to utilize as backfill in all trench or structure locations. Excess unsuitable materials from plumbing excavations shall be removed from the site by this contractor. (includes water meter pit installation) it is not acceptable for any UG piping to be in the stone layer installed by the concrete contractor, all UG piping must be installed in the subbase with adequate soil coverage. Coordinate inverts through foundations with outside piping.
10. The Concrete Contractor shall furnish, install and maintain stone fill under slab. The Sitework Contractor shall leave the building pad site at subgrade to the required tolerance in the contract documents to receive stone fill. The Plumbing, Mechanical and Electrical contractors shall complete their work under the slab on grade and shall be responsible to return the pad to the subgrade elevation left by the Sitework Contractor. The Concrete Contractor shall then adjust the select material to final subgrade, fine grade the slab and place the vapor barrier and stone fill. Note: while working on the building pad area this contractor shall utilize track drive equipment only. No rubber tire equipment will be allowed. Preservation of the building pad shall be the responsibility of this contractor. The onsite testing and inspection agency provided the owner will monitor the excavation, travel and backfilling operation.
11. The plumbing and concrete contractor and CM will meet to review the building pad for turnover to the next trade. If not accepted correction will need to be made to correct concerns and sign off.
12. Equipment bases and housekeeping pads required for the equipment of this scope of work to be provide by this contractor.
13. This contractor shall provide all necessary material handling equipment, cranes, scaffolds, hoisting and rigging equipment and supplies for work associated with this contracts.
14. Providing of sleeve assemblies for work of this contract that penetrates the foundation wall, interior footings or any concrete footings shall be provided to the masonry and concrete contractor for installation. This contractor shall coordinate and assist with the sleeving install. All sleeves must be provided with the appropriate seals, this contract owns sealing the sleeves related to this contracts work.
15. Pipe insulation, insulation coverings, valve insulation, labelling and identification of plumbing

lines shall be provided by this contractor.

16. Valve tags, charts, and labelling shall be part of this contractor's responsibility.
17. Provide Mop sinks and Receptors as indicated on the contract documents.
18. Penetrations through wall, floors, etc. including cutting, patching and fire safing.
19. Testing and balancing of all systems shall be provide by this contractor.
20. Clean up shall be provided daily, all trash, debris, crates, boxes etc. shall be moved out of the building to the dumpsters each day. No storage of trash will be allowed inside the building or courtyards.
21. Ductwork, flex duct, grilles, diffusers, including detailed layout for the drywall and ceiling contractor shall be provided by this contractor.
22. Louvers and vents related to HVAC operations. Furnish flashings required, steel frames, caulking/sealants and covers if identified. Louvers must be installed so water does not accumulate beyond face of louver, this contractor to maintain these louvers until project is substantially complete. Flashing of louvers at exterior and interior wall assemblies is the responsibility of this contractor. (flashing details must be submitted and approved by the design team).
23. Coordinate damper size, location and type of damper with contract documents, pay special attention to architectural drawings and finish surfaces. Fire dampers are to be included as part of this contractors scope.
24. This contractor shall be on site to coordinate when walls are being installed for penetrations and sleeve installations. If penetrations and sleeves are missed, this will be the responsibility of this contractor to cover associated costs of fixing.
25. Temporary heat and ventilation installation, maintenance and removal. Refer to Division 1, Specification Section 015123 - TEMPORARY HEAT AND VENTILATION, for specific scope.
26. All guarantees and warranties to begin at the substantial completion of the entire project. Maintain equipment prior to substantial completion.
27. Roof curbs, rails, etc. to be provided and loaded to the roof by this contractor. Layout and installation by this contractor, coordinate with the carpentry contractor for blocking and the roofing contractor for flashing and roofing details. Include any doghouses or raceways for service lines, including coordination of flashing.
28. Roof drains, pans, sumps and all related anchoring, support and adjustment elements that are required per the contract documents.
29. This contractor is responsible for providing, setting, bracing, anchoring, and aligning all floor drains, floor basins etc. required by the contract documents. The plumbing contractor shall have a plumber on site 100% of the time when the concrete contractor is pouring S.O.G. floors or elevated

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slabs. Drains that are misaligned will be demolished, removed, and replaced by this contractor. Including but not limited to replacing and re-engineering floor reinforcement and paying the concrete contractor to re-pour the slab areas.

30. Gas piping, meter and pressure regulator valve. (proper sizing of the regulators is the responsibility of this contractor.) Include anchoring this equipment to the concrete pad provided by the concrete contractor and anchoring the piping and stand to the exterior wall.
31. Trap priming system, including detailed submittals of the system and then provide as-builts of the location of the rack installations. Photos marked with locations to be provided by this contractor.
32. All utilities will be brought to within +/- 5 feet of the building line by others. The Plumbing Contractor **is responsible** for connecting the utilities from +/- 5 feet outside the building line and completing the system within the building. This contractor shall own the underground line with the assistance of the site contractor, including any chemical treatment required by NCCo, Artesian or any other regulatory agency. Reports shall be submitted to CM. This includes any adjustments to HWS & R RicWil piping installed under previous contract from Main Building to Fieldhouse Mech. Rm.
33. This contractor will flush the underground with the assistance of site contractor and provide documentation to CM.
34. Provide complete water sterilization, testing and reporting. Include within your proposal (4) additional testing mobilization for potential Phase utilization.
35. Install Owner pre-purchased equipment, if identified within the contract documents.
36. Provide access panels to the drywall contractor for framing information and final installation.
37. This contractor shall be on site to coordinate when walls are being installed for penetrations and sleeve installations. If penetrations and sleeves are missed, this will be the responsibility of this contractor to cover associated costs of fixing.
38. This contractor shall provide all required fire dampers, connections and remote controllers for the HVAC system.
39. Provide all VFD's related to HVAC equipment complete for electrical contractor to install.
40. Provide (2) sets of filters for construction use. Include changing out the filters during the construction phase. Additionally include a complete change out of all filters prior to turn over to the owner (these filters shall be separate from the attic stock filters required) Providing a complete filter listing as part of the closeout documents is required.
41. This contractor shall provide the work of Section 230900 Instrumentation and Controls of HVAC system in its entirety. Coordinate with all other trades as required. Provide all instrumentation, controls, coordination of work, testing as required to provide a complete ATC system for this project. This work shall include but not be limited to instrumentation and controls for: Provide all instrumentation, controls, coordination of work, testing as required to provide a complete ATC

system for this project.

42. Motorized dampers when not specified as part of the factory packaged equipment supplied to job site for distribution and installation by others.
43. This contract shall supply control valves per contract documents and drawings.
44. Building life safety control and equipment safety control including: operators and controls for motorized smoke dampers, operators and controls for motorized fire dampers, firestats, freeze protection thermostats, shut down safety devices forming part of automatic temperature control.
45. As-built drawings is both hard copy and BIM submission as part of the project closeout.
46. This contractor shall include within their bid the incorporation of 200hours of CO OP participation by a NCCVT student. Contractor to comply with project documents and requirements set forth in 19 del. C.ch.5
47. Provide all BIM services as specified in Section 013700 BIM Execution Plan. As part of the coordination process all contractors are responsible for obtaining a Revizto license that encompasses the entirety of this project. The cost of this license is \$1,500 and shall be included in your base bid proposal.
48. This contractor must provide a silica exposure plan that meets or exceeds the new 2017silica OSHA requirements before any work can commence. At a minimum, it must be implemented in to the company safety plan, include all monitoring, testing, limits exposure, provide respiratory plan and/or equipment modifications such as adding water to equipment during exposed work and keep records of exposure.
49. This is not a secure site. All contractors are responsible for concealing, locking and /or removing any materials on a daily basis. EDiS will not be responsible for any lost tools, materials or equipment.
50. Provide the necessary coordination with trades to avoid interferences with other work and make corrections at no extra charge.
51. Provide all permits and inspections required for the work of this contract, pay all fee's.
52. Include within this contracts base bid an allowance of \$30,000 for work to be determined by owner and construction manager. Unused allowance funds to be returned to the owner by means of a credit change order.

CONTRACT NO. E-16: ELECTRICAL, LIGHTING, AND FIRE ALARM SYSTEMS

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

Technical Specification Sections:

|                |                                                            |
|----------------|------------------------------------------------------------|
| Division 0     | Bidding and Contract Requirements                          |
| Division 1     | General Requirements                                       |
| Division 22    | Plumbing (coordination of work)                            |
| Division 21    | Fire Protection (coordination of work)                     |
| Division 23    | HVAC (coordination of work)                                |
| Division 26    | Electrical                                                 |
| Division 27    | Communications                                             |
| Division 28    | Electronic Safety and Security (raceways and coordination) |
| Section 284621 | Addressable Fire Alarm Systems (complete)                  |

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide a complete electrical system, lighting(including Stadium & Field Lighting), addressable fire alarm system and infrastructure for all Division 21, Division 27 and Division 28 as indicated on the contract documents.
2. Review and coordinate pricing with Alternate Section (multiple alternates relate to this contract)
3. This contract includes the complete foundation systems for all pole lighting, bollard lights and stadium lighting. Including excavation, backfill, concrete, reinforcing, setting all anchor bolts and spoils removal.
4. Provide all electrical raceways and wiring for the well pumps as located on the contract documents. (two locations)
5. Provide electrical raceways and power wiring to the E1 building. (see alternate section)
6. Lightning protection shall be provided by this contract and coordinated with the Carpentry contractor and Roofing Installer.
7. This contractor to supply power to all areas of work of other trades requiring electrical power.
8. Provide complete infrastructure system for all Division 27 and Division 28 systems. Including all interior and exterior duct banks, raceways and sleeves for special systems.
9. This contractor shall include in the base bid temporary exterior lighting installed and maintained to provide lighting adequate for safety and security purposes for the exterior of the building. The lights must be installed to meet the requirements for exterior use and illuminated during low light hours. These lights will be utilized until permanent exterior lighting has been installed and powered. Supplying the temp power for this lighting is part of this contract. Include providing

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temporary power and lighting as needed for the entire duration of the project. This include the necessary power outlets required for all contractor use. Power must be available within a reasonable distance at all times.

10. Division 23 of the specifications should be reviewed as it relates to the power wiring and other requirements for HVAC equipment including the coordination of furnishing and installing motor starters and controllers as detailed in the Specifications and on the Drawings.
11. This contractor shall provide all conduits, raceways and boxes required for all special systems, including ATC controls, thermostat and sensor installation and security systems and CCTV. Including any raceways or conduits required by the Div 27 and 28 Special Systems Contractor
12. The HVAC contractor will supply all VFD's to the electrical contractor for installation and powering.
13. Provide all smoke damper, power and remote controllers as required by the contract documents.
14. Excavation and backfill for underground electrical work as required below is the responsibility of this Contractor. Soil types shall be in accordance with project specifications and the Geo-Tech report. Geo-Tech reports included for review and acceptance.
15. Backfilling is the responsibility of this Contractor. Soil types shall be in accordance with project documents. It is the intent to use on site material and not imported fill. The use of this on site material shall conform to the compaction requirements identified in Section 312300. Excavated materials shall be covered immediately and protected from moisture mitigation. If Materials become unusable, this contractor shall own purchasing acceptable off site materials.
16. Provide all excavation, layout, concrete, reinforcing for duct banks, light standards, pole lighting, bollard lighting and Stadium lighting, above ground conduit encasement, equipment bases and any other concrete work specifically related to the electrical work. This shall include services from the roadways and all communication duct banks as required. Include requirements of New Castle County, State and local codes for concrete encasement.
17. All runs in exposed ceilings are to be in conduit.
18. All exterior underground raceways and infrastructure are to be installed by this contractor as required by the contract documents. (Cameras, security, electric etc.)
19. Temporary electric installation, maintenance and removal. Refer to Division 1, Specification Section 015113 - TEMPORARY ELECTRIC, for additional information.
20. Power Centers for miscellaneous tools and equipment used in the construction work shall be provided with a minimum of four 20-amp, 120 volt grounding type outlets. Each outlet shall be provided with ground fault detecting circuit breaker protection. The distance between each receptacle location shall not exceed 50 feet.
21. Construction areas, ramps, runways, corridors, offices, and storage areas shall be lighted to not less than the minimum illumination intensities at five (5) foot candles and any additional OSHA

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Temporary lighting and receptacles exposed to wet or damp locations must be weatherproof. Adequate lighting for safe working conditions and the exterior of the structure shall be provided and maintained on a 24 hour per day basis throughout the building. Voltage of each lighting component must be able to accommodate lighting requirements.

22. Rough in and final connection and related work for equipment provided under other contracts (i.e. , HVAC, sprinkler, motorized doors, vertical walls, etc.)
23. Provide all permits and inspections. Pay all fees associated with the permits and inspection.
24. Penetrations through walls, floors, etc. including cutting, patching and fire safing.
25. Testing of all systems, as related to the scope of work for this contract shall be provided. Reporting and verification documentation shall be supplied to NCCVT and EDiS.
26. This contractor shall provide all supplemental hangers and fasteners for lighting installation to the building structure.
27. All runs in exposed ceilings shall be installed in conduit.
28. Clean up on a daily basis shall be provided by this contractor. All work areas shall be organized and cleaned up to the dumpsters each day.
29. The Concrete Contractor shall furnish, install and maintain stone fill under slab. The Sitework Contractor shall leave the building pad site at subgrade required by the contract documents in preparation to receive stone fill. The Mechanical and Electrical Contractors shall complete their work under the slab on grade and shall be responsible to return the pad to the subgrade elevation left by the Sitework Contractor. The Concrete Contractor shall then adjust the select material to final subgrade, fine grade the slab and place the vapor barrier and stone fill. Note: while working on the building pad area this contractor shall utilize track drive equipment only. No rubber tire equipment will be allowed. Preservation of the building pad shall be the responsibility of this contractor. The onsite testing and inspection agency provided the owner will monitor the excavation, travel and backfilling operation.
30. The electrical, and concrete contractor and CM will meet to review the building pad for turnover to the next trade. If not accepted correction will need to be made to correct concerns and sign off.
31. Note: all raceways are to be installed into the subgrade soils and shall have adequate cover for protection from traffic above. No raceways will be installed in the stone base provided by the concrete contractor.
32. All guarantees and warranties to begin at the substantial completion of the entire project. Maintain equipment prior to substantial completion.
33. Hoisting, rigging and scaffolding required to perform you scope of work shall be provided by this contractor.
34. Provide a complete fire alarm system. Water flow devices are supplied and installed by the

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Sprinkler Contractor and wired by this Contractor. Include tie-in to fire sprinkler flow and tamper switch. (fire dampers, smoke detectors, remote testing switches are all part of this contract)

35. Provide all heat tracing and insulation systems as required.
36. Coordinate closely with the work of the Special Systems contractor. This contract (electrical) provides all infrastructure, conduit and raceways required for the Special Systems work. Provide pull strings and boxes for all systems. (voice, data, communication, fire alarm, AV systems, Audio systems, and public address system, clock system etc.) Include all required sleeving, sealing and fire sealing for raceways and conduits through walls, floors, ceilings etc. for this work.
37. This contract shall provide and install wire mesh cable tray if indicated.
38. This contractor shall provide and install 4' conduits as shown for low voltage distribution.
39. This contractor shall provide and install 2' conduits into each space above the ceiling for low voltage distribution.
40. Coordinate, review and fully understand and integrate all cable tray, raceways and infrastructure interior or exterior that may be indicated on all contract documents including the T series drawings.
41. Lightning protection with master UL certification. Coordinate with the Carpentry and Roofing contractors.
42. Coordinate and provide a complete grounding system for the entire project. This includes but is not limited to the building columns, interior spaces, exterior wall assemblies, Electrical rooms, IDF and IDF rooms) and provide any testing and reports required.
43. As-built drawings in both hard copy, electronic and final BIM modelling per contract documents.
44. Provide rough-in and final connection and related work for equipment provided under other contracts (i.e. kitchen, HVAC, sprinkler, motorized doors, etc.). Provide power to automatic hardware. Low voltage wiring from the controller to hardware shall be provided by the Doors, Frames and Hardware Contractor. Include power panels and power supplies supplied by other trades.
45. Provide complete infrastructure( raceways, pull strings and boxes) for video surveillance systems.
46. This contractor shall include within their bid the incorporation of **150** hours of CO OP participation by a NCCVT student. Contractor to comply with project documents and requirements set forth in 19 del. C.ch.5
47. Perform certification testing for all wiring and systems supplied by this contract scope.
48. Provide all BIM services as specified in Section 013700 BIM Execution Plan. As part of the coordination process all contractors are responsible for obtaining a Revizto license that encompasses the entirety of this project. The cost of this license is \$1,500 and shall be included in your base bid proposal.

49. Provide access doors and frames for all access to Structured Cable components or equipment that require routine or periodic maintenance. Installation of access doors and frames provided by the Metal Stud & Drywall Contractor. (provide (5) 2'x2' access panels within your base proposal)
50. Provide pricing for alternates as described in Section 012300-Alternates.
51. Include within this contracts base bid an allowance of \$25,000 for work to be determined by owner and construction manager. Unused allowance funds to be returned to the owner.

CONTRACT NO. E-17: SPECIAL SYSTEMS

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

Technical Specification Sections:

|                |                                        |
|----------------|----------------------------------------|
| Division 0     | Bidding and Contract Requirements      |
| Division 1     | General Requirements                   |
| Division 26    | Electrical (coordination of work)      |
| Section 078400 | Firestopping                           |
| Section 079200 | Joint Sealants                         |
| Section 270500 | Telecommunications Pathways and Spaces |
| Section 271000 | Structured Cabling                     |
| Section 272000 | Network Equipment                      |
| Section 280501 | Security Pathways and Spaces           |
| Section 281000 | Intrusion Detection System             |
| Section 281100 | Access Control System                  |
| Section 282000 | Video Surveillance System              |

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide a complete Special System package as to include but not limited to, structured cabling, network equipment, AV systems, intrusion detection, access controls and video surveillance
2. Telephone and voicemail system including telephone handsets and patch cables from device to jack will be provided by owner.
3. The electrical contractor shall provide and install the fire alarm system, this contractor (Special Systems) will wire fire alarm terminations, and programming of electrified hold open hardware. Low voltage power to electrified hold open hardware provided by this contract. Hold open hardware provided by Carpentry and General Work Contractor.
4. Provide complete intrusion system.
5. Provide access control and security management system complete. Provide coordination with door and frame installation for a complete system. The contractor responsible for supplying the doors, frames, and hardware shall provide all wiring and accessories from the power supply (or junction box) to the door hardware. The contractor responsible for installation of doors and hardware shall provide terminations from door hardware to door whip, from door whip to power transfer, and from frame whip to power transfer. Frame whip shall be secured and protected by the door, frame, and hardware contractor(s) for the direct access of the Special Systems Contractor. Termination of the frame whip to the power supply (or junction box) shall be provided by the Special Systems Contractor. Power supply shall be furnished by the door, frame, and hardware contractor(s) and installed by the Special Systems Contractor. The Special Systems Contractor shall provide low-voltage wire from the card reader to the access controller, from the status switch (door contact) to the access controller, from access controller to the power supply(or

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junction box), and from power supply (or junction box) to power supply (or junction box) as necessary. The Electrical Contractor is responsible for providing 120v circuits to all power supplies and/or transformers as indicated in the documents. The Electrical Contractor shall provide conduits, device boxes, raceways, and pull strings for low-voltage wiring at doors receiving electronic, security, or access control hardware. Electrical contractor shall provide a junction box above each door scheduled to receive a card reader and a pathway & pull string. A mock-up shall be field installed and coordinated by all related Contractors for review prior to commencing work.

6. Provide a complete CCTV - Network Digital Video surveillance System.
7. Provide all patch cords from communication port (jack) to each device included in this Contractor's scope. Patch cords at source (MDF/IDF) from patch panel to network switch provided by owner.
8. Provide all patch cords for switches.
9. Supply and install any fiber lines need for a complete installation including terminations.
10. Provide all testing of all installations.
11. Provide and install the racks, switches, uninterrupted power supplies etc. for a complete installation.
12. Coordinate all WAP's as per the specifications if supplied by the owner, install if not supplied provide and install under this contract.
13. This contractor shall own all notes as per the T series drawings unless note otherwise in the scope of this contract or the electrical contract.
14. Provide coordination of the work of this contract with the Electrical including final equipment locations. This contractor must coordinate with Electrical Contractor as indicated on the drawings and as specified. The Electrical Contractor shall provide all device boxes, conduit and pull strings to circuits for special systems as indicated and also to provide 120 Volt circuits for all Special Systems. This Contractor will be responsible for providing independent support systems, as indicated in the specifications, for all cable and wiring installed by this Contractor in locations where pathways and raceways are not required by the documents. All runs of cable/low voltage in open areas shall be installed in conduit. If raceways are required for the scope of this contract and they are not identified, this contractor shall provide.
15. This contract includes all Division 0 and Division 1 General Requirements. All commissioning requirements are identified in Division 1 and are a requirement of this contract.
16. This contractor shall be on site to coordinate when walls are being installed for penetrations and sleeve installations. If penetrations and sleeves are missed, this will be the responsibility of this contractor to cover associated costs of fixing.
17. Provide access doors and frames for all access to Special Systems components or equipment that require routine or periodic maintenance. Installation of access doors and frames provided by the

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Metal Stud & Drywall Contractor.

18. Provide all network cabling including wiring, devices, and terminations to communication devices identified in plans and referenced on "Communications Outlet Configuration" chart on Drawing E-501. Two (2) terminations should be provided (1) at the source (MDF/IDF patch panel) and (1) at the communication port (jack) in all instances.
19. This contract shall provide communication wiring from the (3) access control panels to the source (MDF/IDF patch panel) including terminations on both ends. Location of access control panels to be coordinated with the documents and the Construction Manager prior to installation.
20. This contractor shall provide communication wiring from the intrusion control headend to the source (MDF/IDF patch panel) including terminations on both ends. This communication wiring shall include (1) dedicated POTS line from the MDF room to the intrusion control dialer. Location of intrusion control headend to be coordinated with the documents and Construction Manager prior to installation.
21. This contractor shall provide communication wiring from the Fire Alarm Control Panel (FACP) to the source (MDF/IDF patch panel) including terminations on both ends. This communication wiring shall include (2) dedicated POTS line from the MDF room to the FACP dialer(s). Location of FACP to be coordinated with the documents and the Construction Manager prior to installation.
22. This contractor shall supply communication wiring from the intercom/public address amplifiers to the source (MDF/IDF patch panel) including terminations on both ends. Location of amplifiers to be coordinated with the documents and the Construction Manager prior to installation. Contractor should assume (3) amplifiers, one located in each MDF/IDF.
23. This contractor shall provide communication wiring from the Building Management System headend to the source (MDF/IDF patch panel). Location of Building Management System headend to be coordinated with the documents, the Mechanical Contractor, and the Construction Manager prior to installation.
24. Provide installation for all wireless access points furnished by owner. Patch cords from device to communication port (jack) provided by this Contractor.
25. Provide penetrations through walls, floors, etc., including cutting, patching and fire safing.
26. Provide all design and coordination necessary to provide complete systems.
27. Provide and coordinate for inspections and testing.
28. Provide fire resistive sealants for the work of this contract.
29. Provide pricing for alternates as described in Section 012300-Alternates.
30. Provide video documentation of training on systems.
31. Provide at least a 48 hour notice prior to any delivery. All deliveries are to be between 7:00 AM

and 3:30 PM.

32. This is not a secure site. All contractors are responsible for concealing, locking and/or removing any materials on a daily basis. NCCVT and EDiS will not be responsible for any lost tools, materials or equipment.
33. This contractor must provide a silica exposure plan that meets or exceeds the new 2017 silica OSHA requirements before any work can commence. At a minimum, it must be incorporated into the company safety plan, include all monitoring, testing, limits exposure, provide respiratory plan and/or equipment modifications such as adding water to equipment during exposed work and keep records of exposure.
34. Contractor must provide additional crews as needed to maintain the project schedule.
35. This contractor shall include within their bid the incorporation of 75 hours of CO OP participation by a NCCVT student. Contractor to comply with project documents and requirements set forth in 19 del. C
36. Provide all BIM services as specified in Section 013700 BIM Execution Plan. As part of the coordination process all contractors are responsible for obtaining a Revizto license that encompasses the entirety of this project. The cost of this license is \$1,500 and shall be included in your base bid proposal.
37. Complete Stadium Sound Systems as per Design Documents
38. Include within this contracts base bid an allowance of \$20,000 for work to be determined by owner and construction manager. Unused allowance funds to be returned to the owner.

CONTRACT NO. E-18: FINAL CLEANING

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials, and equipment for:

Technical Sections:

|            |                                   |
|------------|-----------------------------------|
| Division 0 | Bidding and Contract Requirements |
| Division 1 | General Requirements              |

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. The work of this contract shall include the final cleaning of both the Buildings listed in BP-E and the final cleaning of the New Hodgson Vo-Tech H.S. Documents for the New HS will be listed in Attachment #3 in the drawing set.
2. The New Hodgson HS building will be available for review if the bidders desire. The construction will not be complete and there is no implied references to anything other than the contract documents. If you wish to walk the building under construction, contact Hayley Savage at [hsavage@ediscompany.com](mailto:hsavage@ediscompany.com) or Kevin Lucas at [klucas@ediscompany.com](mailto:klucas@ediscompany.com)
3. Clean all window units, interior and exterior. (provide all lifts and equipment to access the windows) No equipment will be allowed in grass or planting areas, only on paved surfaces.
4. Protection of existing surfaces, floors, walls, grass etc. is the responsibility of this contractor.
5. Clean interior door glass, side glass, vestibules, and entrance doors.
6. Vacuum all floor areas, i.e., carpet, vinyl floor, ceramic tile, epoxy floor, seamless floors, etc.
7. Wax all flooring products that have Mfg. recommendation requiring waxing, Apply 2 coats of wax, coordinate the type of wax with NCCVT prior to starting any waxing operation. **This contractor to provide two (2) coats of wax as described on all Quartz tile and Terrazzo flooring. (Addendum No. 1)**
8. Clean and polish the following areas:
  - a. Casework and cabinets - interior of units and exterior of units, complete
  - b. Countertops
  - c. Soffits
  - d. All woodwork, i.e., railings, baseboards, doors, etc.
  - e. Science casework and fixtures. (include hood assembly)
  - f. Vinyl base
  - g. Wall protection system
  - h. Ceramic tile walls
  - i. Miscellaneous metals
  - j. Window frames
  - k. Metal lockers
  - l. Kitchen equipment, coolers, freezers, exhaust hoods etc.

- m. Clean and polish all cleanouts and drains
- 9. Wet mop/clean and polish vinyl floors, epoxy flooring, seamless floors, Terrazzo floors per manufacturer's recommendations.
- 10. Prior to cleaning and polishing any surfaces this Contractor shall confirm the cleaning requirements from the manufacturer's literature provided for each separate surface. All cleaning should conform to these requirements.
- 11. Clean and polish all plumbing fixtures, i.e., sinks, showers, tubs, toilets, etc.
- 12. Dust all lighting fixtures (Note: Do not touch light fixtures with bare hands)
- 13. Clean and polish all stainless steel hardware, doors, equipment, sinks, etc.
- 14. Provide a final cleaning of the kitchen prior to all inspections ( Include two separate cleanings)
- 10. Include multiple trips to complete scope as follows: Include (6) Phases of cleaning to be determined by owner and CM. This includes full remobilization costs, including equipment, manpower and supplies.
- 11. This contractor shall include an Allowance of \$30,000 for work to be determined by the CM and NCCVT. Any allowance dollars not utilized will be returned to the owner.

CONTRACT NO. E-19: GENERAL LABOR AND CLEAN-UP

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

Technical Specification Sections:

|            |                                       |
|------------|---------------------------------------|
| Division 0 | Procurement and Contract Requirements |
| Division 1 | General Requirements                  |

This contract also includes, but is not necessarily limited to, all labor, materials, and equipment for the following:

1. This contractor shall provide General labor to the project the direction of the owner and project manager.
2. Include within the Base Bid for this contract a \$7,500 allowance for material handling tools. To include but not limited to, wheeled bins for trash removal, shovels, brooms, trash bags etc. purchased materials shall be tracked with receipts and verified. Any funds left unspent will be returned to the owner via credit change order. (all tools purchased under this allowance shall be organized and turned over to the owner at completion of the work)
3. The contract shall include a total ~~5000~~ 7000 **(Addendum No. 1)** manhours of general labor to be scheduled by the Construction Manager. The work will start February 2026 and the duration of the coverage could extend to ~~15 May~~ **July 2027.** **(Addendum No. 1)** This work may be scheduled anytime within the scheduled date range without penalty or additional costs to NCCVT or the CM. These hours may be utilized for Phase II or Phase I work.
4. The contract shall include a total 3000 manhours of general labor to be scheduled by the Construction Manager. This portion of work will be associated with moving equipment, furniture, loose items and debris from the existing school and new building as directed. The crew size required will be in the range of (10) laborers per day for a period of 25 days. ~~during this work~~ **The initial 10 man crew will mobilize on site early June 2026 to begin removal of loose furniture and items from the existing school. 10 men will be required for 25 calendar days straight.** **(Addendum No. 1)** The remaining hours will then be scheduled on an as needed basis. The work will start June 2026 and the duration of the coverage could extend to 15 May 2027. This work may be scheduled anytime within the scheduled date range without penalty or additional costs to NCCVT or the CM. These hours may be utilized for Phase II or Phase I work.
5. A unit price will be provided by this contractor that will pertain to any hours that may be deducted or added to this contract. Any hours not utilized under this contract will be returned to the owner at the identified unit cost amount per hour.
6. Pay Applications each month will be backed up with daily tickets and a complete accounting of the monthly hours utilized. Field Superintendent or hid designated representative shall sign all daily tickets.
7. The owner and CM have the right to request replacement of any personnel provided to service this

contract, without obligation or explanation.

CONTRACT NO. E-20 FLAGGER ENTRANCE PROTECTION

A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

- Technical Specification Sections:

|            |                                       |
|------------|---------------------------------------|
| Division 0 | Procurement and Contract Requirements |
| Division 1 | General Requirements                  |

This contract also includes, but is not necessarily limited to, all labor, materials, and equipment for the following

1. This contractor to provide a traffic Maintenance/Flagger individual **or individuals as required** to manage the entrance and exit traffic at the New Hodgson HS project as directed by the Construction Manager.
2. This contractor shall supply the flagger with all necessary flagger materials, pedestrian and vehicular signage/placards and required PPE as required to perform the task of maintaining vehicular and pedestrian access to the project sight or any area withing the site directed by the CM.
3. The contract shall include a total of 1500-man hours of flagger coverage, to be scheduled by the Construction Manager. The work will start June 15, 2026 and the duration of the coverage could extend out to May 30, 2027. This work may be scheduled anytime within the scheduled date range without penalty or additional costs to NCCVT or the CM.
4. A unit cost will be provided by this contractor that will pertain to any hours that may be deducted or added to this contract. (see Unit Cost section)
5. This individual must be trained and certified to perform the duties of a traffic maintenance flagger. This individual must also be OSHA 40 Certified.
6. All flaggers that will be utilized for this contract shall be trained and certified by one of the following recognized flagger certification programs.
  - American Traffic Safety Services Association (ATSSA) Flagger Certification Program – In classroom Training.
  - American Traffic Safety Services Association (ATSSA) Flagger Certification Program – Online Flagger Training Program.
  - OnlineFlagger.com – Online ATSSA Flagger Training Program.
  - Laborer’s International Union of North America (LIUNA) Work Zone Safety Program, provided by the Construction Craft Laborers Training and Apprenticeship Fund of New Jersey and Delaware – includes flagger certification and Traffic Control Supervisor certification.
  - Delaware Safety Council Flagger Certification program.
7. Provide in the base bid \$10,000 allowance for work as directed by the Construction Manager.

**CONTRACT NO. E-21 – JOINT SEALANTS AND PREFORMED JOINT ASSEMBLIES**  
**(Addendum No. 1)**

- A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials, and equipment for:

Technical Specification sections:

|                |                                   |
|----------------|-----------------------------------|
| Division 0     | Bidding and Contract Requirements |
| Division 1     | General Requirements              |
| Section 078400 | Firestopping                      |
| Section 079100 | Preformed Joint sealants          |
| Section 079200 | Joint Sealants                    |

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide required caulking at control and construction joints.
2. Provide all preformed joint sealant products if indicated on the documents.
3. Provide caulking of masonry to masonry.
4. Provide within your Base Bid proposal (80) man hours and \$3000 in materials to be utilized for Misc. fire safing and Fire sealants that may be required due to agency walk throughs and inspections. This work shall only be authorized by NCCVT or EDiS. Any remaining funds shall be returned to the owner via credit change order.
5. Provide caulking of vertical joints on exterior metal panels to adjacent materials ( Metal Panel contractor to provide sealants and caulking between panels and as required to seal their assembly, including where metal panels sit on masonry.)
6. Provide caulking related to interior glazing. Caulking of interior perimeter of new aluminum windows, storefront and curtainwall to finished surfaces to be provided by this contract.
7. Provide caulking of exterior perimeter of hollow metal door frames, including overhead doors.
8. Provide caulking of interior perimeter of hollow metal door frames to masonry. (HM frames to drywall shall be provided by the Painting contractor)
9. Provide caulking of all hollow metal frames to the floor. Coordinate caulking with flooring materials.
10. Provide caulking of all interior exposed drywall to masonry and metal wall panels.
11. Provide caulking at the tops and bottoms of all exterior and interior column covers.

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12. Provide caulking of all interior exposed concrete slab control joints, expansion joints and perimeter slab to walls.
13. Provide caulking for interior perimeter of sinks, urinals, toilets, bath accessories, toilet partitions, fire extinguisher cabinets, hose reel cabinets, gas cabinets and any other accessories identified on the contract documents. (work as indicated on contract documents)
14. Provide caulking of joints in ceramic tile areas, including and ceilings.
15. Examine areas and conditions where joint sealers are to be installed and correct any conditions detrimental to the proper and timely completion of this scope of work. Do not proceed with work until unsatisfactory conditions are corrected to permit proper installation.
16. Provide mock ups of all products and adhesion tests for exterior caulking.
17. Provide custom colors or all caulks and sealants.
18. Protection and cleaning of adjacent surfaces to be the responsibility of this contractor.
19. This contractor shall include the Pollution Insurance coverage as specified in the contract documents.
20. This is not a secure site, the contractor is responsible for the safe storage of all of their materials. NCCVT and EDiS will not be responsible for lost or stolen materials
21. All subbase preparation, priming etc. to be performed before caulking is applied.
22. Include within this contracts base bid an allocation of \$10,000 for work to be determined by owner and construction manager. Unused allocation funds to be returned to the owner by means of a credit change order.

END OF SECTION

## NCCVT Hodgson BP-E Bid Schedule

Addendum #2  
December 26, 2025

| ID   | Task Name                                          | Duration | Start        | Finish       | Actual Start | Actual Finish |
|------|----------------------------------------------------|----------|--------------|--------------|--------------|---------------|
| 1025 | PHASE 5 - EXISTING BUILDING ABATEMENT & DEMOLITION |          |              |              |              |               |
| 1026 | Abatement Test Room - Holiday Break                | 0 days   | Thu 12/26/24 | Thu 12/26/24 | Thu 12/26/24 | Thu 12/26/24  |
| 1027 | Tentative Abatement Summer 2025 Specific Areas     | 0 days   | Mon 8/25/25  | Mon 8/25/25  | Mon 8/25/25  | Mon 8/25/25   |
| 1028 | Last Day of School                                 | 1 day    | Fri 6/12/26  | Fri 6/12/26  | NA           | NA            |
| 1029 | Site Controls                                      | 10 days  | Mon 6/15/26  | Fri 6/26/26  | NA           | NA            |
| 1030 | Empty Building of Furniture                        | 20 days  | Mon 6/15/26  | Fri 7/10/26  | NA           | NA            |
| 1031 | Asbestos Abatement Area 1 Gym                      | 20 days  | Mon 7/13/26  | Fri 8/7/26   | NA           | NA            |
| 1032 | Building Demolition- Area 1 Gym                    | 20 days  | Mon 8/10/26  | Fri 9/4/26   | NA           | NA            |
| 1033 | Asbestos Abatement Area 2                          | 80 days  | Mon 8/10/26  | Fri 11/27/26 | NA           | NA            |
| 1034 | Building Demolition Area 2                         | 40 days  | Mon 11/30/26 | Fri 1/22/27  | NA           | NA            |
| 1035 | PHASE 6 - CONSTRUCT ATHLETIC FIELDS                | 350 days | Mon 9/21/26  | Fri 1/21/28  | NA           | NA            |
| 1036 | Construct Field House                              | 80 days  | Mon 9/21/26  | Fri 1/8/27   | NA           | NA            |
| 1037 | Construct Stadium Field & Track                    | 60 days  | Mon 1/11/27  | Fri 4/2/27   | NA           | NA            |
| 1038 | Construct Practice Fields                          | 80 days  | Mon 1/25/27  | Fri 5/14/27  | NA           | NA            |
| 1039 | Construct Out Buildings                            | 75 days  | Mon 1/11/27  | Fri 4/23/27  | NA           | NA            |
| 1040 | Allow Fields to be Fully Established               | 180 days | Mon 5/17/27  | Fri 1/21/28  | NA           | NA            |
| 1041 |                                                    |          |              |              |              |               |
| 1042 |                                                    |          |              |              |              |               |
| 1043 |                                                    |          |              |              |              |               |

**SECTION 11 40 00**  
**FOODSERVICE EQUIPMENT**

**PART 1 - GENERAL**

**1.1 RELATED DOCUMENTS**

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

**1.2 SUMMARY**

- A. Provide all material, labor, equipment and services required to execute and complete all items of work relating to the food service equipment, both existing and new, all as required to make the resulting facility a fully functional and reliable operating unit in accordance with this Specification. All food service equipment shall be furnished as specified, delivered prepaid, unloaded and uncrated, assembled with all components and accessories connected within the equipment, set-in-place in proper location as indicated on the drawings, leveled and fastened to the wall, ceiling or floor as required, left ready for final utility connections. The work shall include:
  - 1. To prevent extended warehousing of all food service equipment, no pre-ordering of equipment is permitted; schedule ordering of the equipment so that warehousing of the equipment shall not be required for longer than 60 days prior to delivery to the site for installation.
  - 2. All food service equipment shall have a manufacturer extended warranty covering parts and labor for a period of two years which shall take effect only after acceptance and beneficial use by the District. All labor shall be performed by a factory authorized and qualified representative.
  - 3. A “complete and thorough” demonstration and start-up for each item of equipment must be conducted by a qualified manufacturer representative in the use, sanitation and maintenance of the equipment.
- B. Furnishing scheduled items of custom fabricated food service equipment as specified utilizing a food service equipment fabricator listed with the National Sanitation Foundation (NSF) for custom equipment fabrication.
- C. Delivery of food service equipment in factory fabricated containers designed to protect equipment and finish until final installation. Delivery of food service equipment shall be coordinated with the construction schedule. If necessary, delivery of the food service equipment shall be by means other than common carrier to expedite delivery and to maintain project schedule.
- D. Warehousing of the food service equipment in a bonded warehouse and re-delivery of the food service equipment from the storage facility to the project site or arrangement for secured storage at the project site to assure availability of the food service equipment to maintain project schedule.
- E. Field installation of the food service equipment including buy out equipment at the project site including on site receiving and unloading, uncrating from packing containers, conveyance of the

food service equipment from the receiving area to the installation location, erection and assembly of the food service equipment including field welding and polishing of sub assemblies and installation of fixtures and components and setting in place in final location.

- F. Removal and disposal of discontinued items of food service equipment not to be reused including costs for transport and scrapping. This shall include pump-down and reclaim of refrigerant and fire system propellant and disposal costs of all refrigeration systems as required. Utility disconnection and termination of utility services shall be provided by the Plumbing, Electrical and Mechanical (HVAC) Trades.
- G. Removal and disposal of discontinued items of food service equipment not to be reused including costs for transport and scrapping. This shall include pump-down and reclaim of refrigerant and disposal costs of all refrigeration systems as required. Utility disconnection and termination of utility services shall be provided by the Plumbing, Electrical and Mechanical (HVAC) Trades.
- H. Removal, cleaning, servicing, reassemble and reinstallation of items of food service equipment to be reused including warehousing and transportation costs for scheduled items of food service equipment to be refurbished off-site or to be temporarily stored off-site. This shall include pump-down and reclaim of refrigerant and disposal costs of all refrigeration systems as required. Utility disconnection and termination of discontinued services and modification or preparation or relocated utility services shall be provided by the Plumbing, Electrical and Mechanical (HVAC) Trades.
- I. Removal, cleaning, servicing, crating and delivery including costs for transport of items of food service equipment to be reused in an alternate location. This shall include pump-down and reclaim of refrigerant and disposal costs of all refrigeration systems as required. Utility disconnection and termination of utility services shall be provided by the Plumbing, Electrical and Mechanical (HVAC) Trades.
- J. Removal and disposal of all packing material.
- K. All costs for special tools, crane rental or usage cost or rigging as may be required for delivery or installation of the food service equipment.
- L. All work is to be performed by skilled labor utilizing the proper Trades having respective jurisdiction thereto. All work shall be performed at hours required to maintain consistent work schedules with all other Trades without additional cost.
- M. Preparation of dimensioned utility rough-in floor plans coordinated with the Contract Documents and site conditions and the food service equipment manufacturers' utility connection points for all food service equipment.
- N. Assist in the preparation of "chalk-line" mark-up of utility rough-in locations on the building floor at the job site.
- O. Take complete financial responsibility for any and all additional expenses resulting from incomplete or inaccurate rough-in drawings or instructions for the final rough-in dimensioning at the job site.

- P. Provide complete manufacturers' and fabricator shop drawings of all related items of food service equipment.
- Q. Provide competent on site supervision for the coordination of work and to assist and supervise the erection, assembly and installation of the food service equipment, this shall include any moving, shifting or disassembly of the food service equipment to enable work to be performed free of obstruction.
- R. Attend all job conferences and meetings.
- S. Maintaining coordination and control over the form, fit, function and utility requirements of all food service equipment, from placement of purchase orders through Final Acceptance
- T. Provide competent on-site final testing, demonstration and instruction in the use and service of all items of food service equipment in the form of a qualified manufacturer's representative for each item of food service equipment.
- U. Providing access to the custom equipment fabricator's shop for inspection of construction and materials used at any time during the progress of fabrication.
- V. Field verification of all measurements at the project site prior to the fabrication of custom fabricated and buy-out equipment and correct any deviation from the dimensions indicated on any plans and shop drawing which may affect the final form or fit of any item of food service equipment as a result of final building conditions and actual field dimensions.
- W. All food service equipment shall conform to field verified dimensions and to the finished building conditions with edges scribed and sealed to wall surfaces, fitting to and around building obstructions. All joints, seams or surfaces shall be fully sealed with General Electric or equivalent clear silicone sealer.
- X. Field verification of delivery access into and through the building to the final equipment location including access and clearance through hallways, doorways and elevators (cab size and weight restrictions); furnish food service equipment in sections or sub-assemblies as required for access.
- Y. Keeping the premise free from accumulation of waste material and rubbish caused by his work. At the completion of each workday all waste material and rubbish must be removed and all areas swept broom clean.
- Z. Physical damage to equipment, building or previous work completed or in the process of completion shall be repaired or replaced.
- AA. Furnish as part of and affixed to the food service equipment, accessories, components and fixtures furnished standard with the equipment as specified or listed as an option and shall include the following:
  - 1. PLUMBING ACCESSORIES: Pop-up, lever or basket type waste outlets, tailpieces, standing or connected overflows, faucets and spray units, vacuum breakers, shut-off and control valves and fittings.
  - 2. STEAM AND GAS ACCESSORIES: Steam supply valves, thermostats, pressure reducing and regulating valves, shut-off and control valves, temperature and pressure gauges, copper steam coils or injector assemblies, traps and fittings

3. ELECTRICAL ACCESSORIES: Terminal blocks, conduit, wiring, signal and pilot lamps, on-off and control switches, control panels, magnetic contactor assemblies, heating elements, junction boxes, outlet boxes and receptacles and cord and plug sets.
  4. REFRIGERATION ACCESSORIES: Copper insulated refrigeration tubing, valves, fittings, hangers, high and low pressure control switches, solenoid valves, evaporator coils, expansion valves, condensing units and condensate evaporators.
- BB. All built-in accessories, components and fixtures shall be factory installed at the time of fabrication and shall comply with all applicable codes and regulations.
- CC. Furnish and install copper insulated refrigeration lines from compressor location to evaporator coils and expansion valves for all refrigeration units and ice makers with remote or refrigeration systems other than self-contained.
- DD. Furnish 14 gauge galvanized steel welded roof curbs for all refrigeration condensing unit stands and exhaust fans and supply fan make-up air units including setting-in-place and securing to the building roof.
- EE. Furnish and install remote and self-contained refrigeration system complete with Copeland condensing unit and insulated copper refrigeration lines charged with R404A refrigerant. Condensing unit shall be interconnected to a low profile, high velocity evaporator coil. Refrigeration system shall include all fittings, valves, switches, controls and all related components to comprise a complete operating unit of sufficient BTU capacity to maintain automatic operation of 35 degree F product temperature in coolers and -10 degree F product temperature in freezers. Refrigeration system provided with outdoor remote air cooled condensing unit shall be provided with winterized controls (low ambient package) including crankcase heater, line dryers and head pressure control unless specified as part of a pre-assembled refrigeration rack system. Refrigeration lines to be run within any slab or floor shall be either hard copper or soft copper if run within conduit.
- FF. Furnish and install water filter assemblies, sized and of the proper type to accommodate the water flow rate and “particulate” requirement of the food service equipment; this shall include all combi and bake ovens, steam cookers, proofing cabinets, ice makers, coffee brewing equipment and soda and beverage dispensing equipment.
- GG. Furnish and install copper condensate lines in walk-in refrigeration from evaporator coil to waste receptor.
- HH. Furnish and install gas supply shut-off valve at each gas manifold connection and furnish and install flexible gas hose connectors to each shut-off valve and to each cooking appliance.
- II. Furnish materials and install interconnecting chrome plated exposed piping for hose reel and hose bibs including installation of check valves and vacuum breaker in supply line; this shall include chrome plated bleeder outlet if required by local health department regulations or local plumbing codes.
- 1.3 WORK BY THE ELECTRICAL TRADE
- A. Rough-in utility connections including proper voltage, phase and amperage required to satisfactorily operate all items of food service equipment.

- B. Final connection of the food service equipment from the rough-in location to the connection point on all food service equipment and necessary connection points.
- C. Furnishing and installation of all accessories, components and fixtures other than those specified as part of the food service equipment, to include but not be limited to, electrical circuit breakers or fuses, electrical receptacles, disconnect switches, on-off switches or other fittings and appurtenances that are required to connect the food service equipment in accordance with manufacturer's instructions and result in proper operation.
- D. Utility disconnection and termination of discontinued services of existing food service equipment to be terminated.
- E. Furnishing and installing electrical plug and cord sets where not furnished as part of the appliance.
- F. Electrical contractors or shunt-trip circuit breakers to interrupt electrical power to all electrically operated food service cooking appliances.
- G. In-floor, flush mounted, waterproof electrical receptacles of type and capacity to match plug and cord sets for all mobile food service counter equipment.
- H. Ceiling mounted, retractable drop cords to accommodate food service equipment in an island arrangement, of the type and capacity to match plug and cord sets of the food service appliances.
- I. Furnishing materials and installation of all interconnecting wiring as required for the food service exhaust ventilation and fire suppression systems; this shall include wiring of electrically operated gas supply shut-off valves for fire suppression systems, fire suppression system wiring to building fire alarm, heat detector electrical detection device to automatically start supply and exhaust fans and exhaust hood light fixtures to remote wall switch.

#### 1.4 WORK BY THE PLUMBING TRADE

- A. Rough-in utility connections including gas, steam, hot and cold water and floor receptors and drains in proper sizes, pressures and quantities required to satisfactorily operate all items of food service equipment.
- B. Final connection of the food service equipment from the rough-in location to the connection point on all food service equipment and necessary outlets.
- C. Furnishing and installation of all accessories, components and fixtures other than those specified as part of the food service equipment, to include but not be limited to stop cocks, traps, pipe, shut-off valves, pressure reducing valves or other fittings and appurtenances that are required to connect the food service equipment in accordance with manufacturer's instructions and result in proper operation.
- D. Furnishing and installing chrome plated indirect waste outlet piping for food service equipment, from the waste outlet connection on the food service equipment to the building waste receptacle (floor sink, etc.).
- E. Flushing and sanitizing of lines before making final connections to the food service equipment.

- F. Grease interceptors for food service equipment in capacity and size as required by code.
- G. Furnish and install exposed threaded gas manifold piping for all cooking appliances and welded in-wall gas manifold piping.
- H. Install gas shut-off valve supplied as part of the fire suppression system in the gas supply line in an exposed and accessible location.

#### 1.5 WORK BY THE MECHANICAL TRADE

- A. Supply and exhaust ventilation for indoor refrigeration condensing units based on 750 cfm for each air cooled compressor horsepower and 250 cfm for each water cooled compressor horsepower.
- B. Exhaust ventilation for condensate applications including fully welded 18 gauge stainless steel or 12 gauge aluminum liquid tight ductwork pitched toward source to prevent leaking, fan and start-stop switch with indicator lights located in the dishroom.
- C. Exhaust hood exhaust ventilation system including roof top mounted “utility set” type up-blast centrifugal fan with backward incline wheel, adjustable sheaves, vibration mounts and bird screen at discharge end; fan shall be rated at 14 sones or less and shall be UL 710 listed; roof curb, exhaust ductwork constructed of a minimum 16 gauge galvanized steel or 18 gauge stainless steel, fully welded liquid tight with clean-outs at every major bend and in 20 foot intervals; ductwork shall not exceed a three to one aspect ratio, connection to exhaust fan shall include a UL listed and rated vibration eliminator and ductwork shall be insulated with all prevailing codes.
- D. Exhaust hood supply ventilation system including roof top mounted UL listed supply fan with vibration mounts, adjustable sheaves, roof curb, bird screen at intake end, maintainable filtration system, and gas or electric heated supply air heater (supply air heater heat incoming supply air below a 65 degree F ambient temperature) and 22 gauge galvanized steel ductwork.
- E. Disconnection and termination of discontinued ductwork of existing exhaust or condensate hoods to be terminated or relocated, and modification or preparation of exhaust system for existing exhaust or condensate hoods to be relocated at the new location.

#### 1.6 WORK BY THE CONSTRUCTION TRADE

- A. Masonry bases, floor curbs, structural pads, floor depressions, roof curbs, flues and fireproof duct shafts or enclosures.
- B. Conduit for beverage lines (PVC if embedded in concrete or smooth aluminum if exposed) with 24" radius sweep bends and 24" x 24" pull boxes every 100 lineal feet or three turns including sleeves any through walls, floors and ceilings.
- C. Sleeves and openings through wall, floors and ceilings for passage of refrigeration lines.
- D. Wall blocking or reinforcing to adequately support wall mounted food service equipment or fixtures; provide 3/4" thick exterior grade plywood backing for wood stud applications and 16 gauge steel backing for metal stud applications.

- E. Stainless steel or FPR wall paneling behind all mop receptors, dishtables and pot / utensil washing sinks.
- F. Installation of floor pans in floor depression with floor pans set flush and finished watertight around entire perimeter at juncture with floor surface.
- G. Conduit for refrigeration lines (PVC if embedded in concrete or smooth aluminum if exposed) with 24" radius sweep bends including sleeves any through walls, floors and ceiling.

1.7 WORK BY THE ROOFING TRADE

- A. Roof penetrations properly sealed and flashed to prevent water penetration.

1.8 BIDDING INSTRUCTIONS AND QUALIFICATION OF BIDDER

- A. The primary items of food service equipment described in this specification are considered the basis of the bid. Only "equal" items listed as part of this specification will be considered and must meet the conditions of the base bid item; this shall include all materials and material finishes, fabrication methods, electrical, plumbing, and mechanical components, electrical control devices, hardware, accessories and options, exactly as specified without exception. It will be the full and complete responsibility of the Food Service Equipment Contractor to pay any and all costs incurred in adapting any other "equal" item to the mechanical, electrical, exhaust ventilation or structural systems of the building including any other cost increase incurred as a result of engineering changes to the mechanical, electrical, exhaust ventilation, architectural, structural or food service drawings. The contract is to be awarded as follows:
  - 1. The competence and responsibility of the bidder.
  - 2. An itemized cost breakdown of each scheduled item of food service equipment is required, as specified, in order that the District may, at his option, delete any item or supply any portion thereof, or increase the quantity of any item without affecting the cost quoted for the remaining items. "Pre-approved" substituted items must be submitted as an add or deduct alternate in addition to the base bid.
  - 3. The District is not obligated to accept the lowest or any other bid. The award of the contract and choice of the food service equipment Contractor shall be at the District's discretion.
- B. Each bidder shall be responsible to visit the project site of the proposed work and fully acquaint himself with conditions as they exist.
- C. Each bidder is responsible to attend any pre-bid meeting as required by the District.
- D. Each bidder shall be responsible to examine and review the contract document drawings and specifications. Should the bidder find during examination of the drawings and specifications any discrepancies, omissions, ambiguities, or conflicts in or among the contract documents or shall be in doubt as to their meaning, the District shall be notified no later than four working days prior to bid opening for clarification.
- E. The failure or omission by any bidder to receive or examine any form, instrument or document or to visit the project site shall in no way relieve him from obligation with respect to his bid. No

claims for any extras will be allowed due to unintentional errors, conflicts, or omissions in the contract documents drawings or specifications.

#### 1.9 SUBMITTALS

- A. Product Data: For each buy-out item of food service equipment indicated. Include manufacturer's model number and accessories and requirements for access and maintenance clearances, water and drainage, power or fuel and service connections including roughing-in dimensions
- B. Shop Drawings: For food service equipment not manufactured as standard production and catalog items by manufacturers. Shop drawings shall include the following information:
  - 1. Dimensioned rough-in plans scaled at 1/4"=1'-0" accurately locating connection points and indicating utility data for all mechanical, electrical and supply and exhaust ventilation requirements.
  - 2. Dimensioned plans scaled at 1/2"=1'-0" accurately locating and indicating the finished size of masonry bases, floor depressions in structural slabs, stub walls, curbs and finished openings for pass-thru equipment.
  - 3. Dimensioned plans scaled at 1/4"=1'-0" accurately locating conduit and pull boxes for beverage and refrigeration lines including floor, wall and ceiling penetrations and termination points.
  - 4. Dimensioned plans and detailed drawings of all custom fabricated food service equipment scaled at 3/4"-1'-0" for plan and elevation views and 1-1/2"=1'-0" for sectional views.
- C. Copies of original maintenance and repair manuals including a list of all authorized service agencies responsible for each item of food service equipment.

#### 1.10 QUALITY ASSURANCE

- A. Manufacturer's qualifications shall include a firm that has regularly engaged in the manufacturing of food service equipment of the same type, capacity, performance and size as specified and whose products have been in similar service for not less than five years.
- B. Custom fabricator qualifications for custom food service equipment shall include a skilled sheet metal shop with a minimum of five years' experience in custom sheet metal food service equipment fabrication of similar type as specified. All custom food service equipment shall be fabricated at the same shop.
- C. Installer's qualifications shall include a firm with at least three years of successful installation experience on projects with a similar scope to that as required for this project.
- D. Food service equipment dealers' qualifications shall include a firm which is regularly engaged in the purchasing of food service equipment as is a manufacturer authorized agent of the specified equipment for not less than five years. The dealer shall also employ a full time project management staff to oversee the purchase of the equipment in compliance with the specifications, coordinate the form and fit of the equipment to the project site conditions, attend all project meetings, coordinate shop drawing review, coordinate installation with the Trades, coordinate factory training and address all issues as they relate to the satisfactory completion of the facility in compliance with the specifications and related documentation.

- E. Codes and Standards: All food service equipment furnished and installed under this specification shall be manufactured in strict compliance with the following publications or the current or revised related publication as well as all state, national and local codes and agencies having jurisdiction over same:
1. National Electrical Manufacturer Association NEMA
    - a. ICS-77 Industrial Controls and Systems
  2. National Electrical Manufacturer Association NEMA
    - a. ICS-77 Industrial Controls and Systems
    - b. 17.4 Local Application System
    - c. 17.13 Water Sprinkler Systems
    - d. 96-76 Installation of Equipment for the Removal of Smoke and Grease Laden Vapors for Commercial Cooking Equipment
  3. National Sanitation Foundation NSF
    - a. 11 76 Food Service Equipment
    - b. 4 73 Commercial Cooking and Warming Equipment
    - c. C-2-72 Special Equipment and/or Devices
  4. National Electrical Manufacturer Association NEMA
    - a. 57-78 Electric Lighting Fixtures
    - b. 197-78 Commercial Electric Cooking Appliances
    - c. 300 Fire Extinguishing Systems
- F. All food service equipment shall be manufactured in strict compliance with standards as set forth by the National Sanitation Foundation (NSF) including fabrication of custom built equipment and shall be listed with same and shall bear their seal. Any item of food service equipment lacking the NSF seal will be rejected.
- G. All electrically operated food service equipment shall be constructed in strict compliance with standards as set forth by the Underwriters Laboratories (UL) and shall utilize approved components and assemblies and shall bear the label thereof.
- H. Custom fabricated food service equipment shall be constructed to the standards as set forth by the National Association of Food Equipment Manufacturers (NAFEM).
- I. All refrigeration equipment and all pressurized vessels shall be constructed, approved, inspected, registered and stamped and installed in strict compliance with the American Society of Mechanical Engineers (ASME), state and local codes for Unfired Pressure Vessels and all other agencies having jurisdiction thereof.
- J. All gas operated food service equipment shall be fabricated in strict compliance with standards as set forth by the Underwriter Laboratory (UL) and shall be listed with same and shall bear their seal.
- K. Steam operated equipment shall be fabricated and installed in accordance with Pennsylvania Department of Labor and Industry standards.
- L. Product Options: Drawings indicate food service equipment based on the specific products indicated. Other manufacturers' equipment with equivalent size and performance characteristics may be considered.

- M. Preinstallation Conference: Conduct conference at Project site to comply with requirements of Division 1 Section “Project Meetings.” Review methods and procedures related to food service equipment including, but not limited to the following:
1. Review access requirements for equipment delivery.
  2. Review equipment storage and security requirements.
  3. Inspect and discuss condition of substrate and other preparatory work performed by other Trades.
  4. Review structural loading limitations.
  5. Review and finalize construction schedule and verify availability of materials, Installer’s personnel, equipment and facilities needed to make progress and avoid delays.

1.11 DELIVERY, STORAGE AND HANDLING

- A. Deliver food service equipment as factory-assembled units with protective crating and covering.
- B. Store food service equipment in original protective crating and covering and in a dry location.

1.12 PROJECT CONDITIONS

- A. Field Measurements: Verify dimensions of food service equipment installation areas by field measurements before equipment fabrication and indicate measurements on Shop Drawings and Coordination Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

1.13 COORDINATION

- A. Coordinate equipment layout and installation with other work including light fixtures, HVAC equipment and fire-suppression system components.
- B. Coordinate location and requirements of service-utility connections.
- C. Coordinate size, location and requirements of concrete bases, positive slopes to drains, floor depressions and insulated floors. Concrete, reinforcement and formwork requirements are specified in Division 3 Section “Cast-in-Place Concrete”.
- D. Coordinate installation of roof curbs, equipment supports and roof penetrations, as specified in Division 7 Section “Roof Accessories”.

1.14 WARRANTIES

- A. General Warranty: The special warranty specified in this Article shall not deprive the District of other rights the District may have under other provisions of the Contract Documents and shall be in addition to and run concurrent with other warranties made by the Contractor under requirements of the Contract Documents.

- B. All buy-out food service equipment herein specified shall have all parts and labor warranted in writing, from the date of Final Acceptance by the District against defective parts, materials, workmanship and design for a period of time as stated within the manufacturers standard published warranty, but no less than two years.
- C. All custom fabricated food service equipment shall be warranted as stated above except for a period of two years.
- D. Refrigeration equipment shall include start-up and two year parts and labor warranty on the entire refrigeration system and manufacturers five year parts warranty on hermetic scroll and semi-hermetic sealed compressors.
- E. Existing equipment refurbished for reuse shall be warranted in writing, against defective parts, materials and labor as stated above but for a period of 90 days.

## PART 2 - PRODUCTS

### 2.1 MATERIALS AND WORKMANSHIP

- A. Stainless steel shall be type 302 or type 304 extra low carbon non-magnetic austenitic 18% chrome, 8% nickel alloy steel. Gauges shall be U.S. Standard of Thickness set forth below:

| GAUGE | THICKNESS | GAUGE | THICKNESS |
|-------|-----------|-------|-----------|
| 10    | .1346     | 16    | .0598     |
| 11    | .1196     | 18    | .0478     |
| 12    | .1046     | 20    | .0359     |
| 14    | .0747     | 22    | .0299     |

- B. All sheets shall be of maximum length to permit fabrication from one sheet. All thickness must meet the above gauge thickness within tolerances set forth by the ANSI after polishing. Finished sheets exceeding these tolerances shall be rejected as not meeting this Specification.
- C. Galvanealled steel shall be ARMCO steel or an approved grade of copper bearing steel shall be properly primed, degreased and finished with two coats of synthetic aluminum bronze.
- D. Structural steel members used for framing, consisting of angles, bands, bars and channels shall be ductile in quality, free of hard spots, runs, checks, cracks and other surface defects and shall be smooth galvanized by the hot dip process with all surplus removed, free of runs, blisters, excess splatter and uncoated spots or patches.
- E. White metal shall consist of corrosion resistant metal containing not less than 21% nickel. All castings shall be rough ground, polished and buffed to a bright luster and shall be free from pit marks, runs, checks, burrs and other imperfections.

- F. Stainless steel pipe and tubing shall be seamless or welded of gauge specified and of true roundness. Seamless tubing shall be thoroughly and correctly annealed and ground smooth. Welded tubing shall be thoroughly heat treated and properly quenched to eliminate carbide precipitation, drawn true to size and roundness and polished to match stainless steel sheets.
- G. Welding shall be of the electric submerged or concealed arc type, heliarc wherever practical. Where welding rods are required they shall be of the same composition as materials to be joined coated with a non-carbonaceous flux.
- H. Plastic Laminate: Complying with NEMA LD 3 and NSF 35 requirements; NSF certified for end-use application indicated; 0.050 inch (1.27 mm) thick, smooth texture and easily cleanable.
  - 1. Color: As selected by Architect from manufacturer's full range of colors.
- I. Plywood and Lumber: Close grain exterior grade mahogany or birch plywood.
- J. Sealant: ASTM C 920; Type S, Grade NS, Class 25, Use NT. Provide elastomeric sealant NSF certified for end-use application indicated. Provide sealant that when cured and washed meets requirements of Food and Drug Administration's 21 CFR, Section 177.2600 for use in areas that come in contact with food.
  - 1. Color: As selected by Architect from manufacturer's full range of colors.
  - 2. Backer Rod: Closed-cell polyethylene in diameter larger than joint width.
- K. Plastic: Except for plastic laminate, provide plastic materials and components complying with NSF 51.
- L. Sound Dampening: NSF-certified, non-absorbent, hard drying, sound-deadening coating. Provide coating compounded for permanent adhesion to metal in 1/8-inch (3-mm) thickness that does not chip, flake or blister.
- M. Gaskets: NSF certified for end-use application indicated; of resilient rubber, neoprene or PVC that is nontoxic, stable, odorless, nonabsorbent and unaffected by exposure to foods and cleaning compounds.

## 2.2 ACCESSORIES

- A. Cabinet Hardware: Provide NSF-certified stainless steel hardware for equipment items as indicated.
- B. Casters: NSF-certified standard-duty stainless-steel swivel stem casters with 5-inch (125-mm) diameter wheels, polyurethane tires with 1-inch (25-mm) tread width and 300-lb (90-kg) load capacity per caster. Provide brakes on 2 casters per unit.

## 2.3 FABRICATION, GENERAL

- A. All welds shall be strong and ductile, nonporous, free of pits and cracks. Parts which are to be welded shall be homogeneous, of a like color and finish to adjoining material. Excess metal and

carbide precipitation shall be ground off, finished smooth and polished. Unexposed welds shall be pacified to prevent attrition. Brazed or soldered joints are unacceptable. Where galvanizing has been damaged due to the welding or grinding process, these areas shall be galvawelded to replace finish

- B. All exposed surfaces of the food service equipment shall be free from bolts, screws and rivet fastenings. Wherever bolts are required they shall be of similar composition and finish as the metal to which they are applied.
- C. Wherever practical all food service equipment and fixtures shall be factory or shop fabricated of one-piece construction, shipped to the project site as one unit completely assembled.
- D. Items of food service equipment or fixtures too large to enter or transverse the building to the installation location in one assembly shall be constructed in sections and shall be furnished with field joints. Where field joints are necessary, all adjoining exposed surfaces shall be field welded at the project site as specified above for welding. Where conditions make welded field joints impractical, each sub-assembly shall be fabricated with off-set draw angles welded to the underside of each adjoining top surface and drawn together to a "hairline" seam with 1/4"-20 stainless steel bolts with lock washers and chrome plated acorn nuts. Bolted field joints will be permitted only where specifically shown on Drawings or specified for a particular item.
- E. Wherever shear edges occur they shall be free of burrs, fins or irregular projections and shall be finished to prevent cutting or laceration when the hand is drawn over such shear edges. Brake bends shall be free of undue and where such bends do mar the uniform surface appearance of the material, such marks shall be removed by suitable grinding, polishing and finishing. In no case where miters or bullnose corners occur is overlapping materials acceptable.

## 2.4 GENERAL FRABRICATION STANDARDS

### A. TOPS:

- 1. Tops shall be fabricated of 14 gauge stainless steel unless otherwise specified. All edges shall be bullnose or formed as specified with all joints butt-edged and electrically welded, ground smooth and polished so no evidence of welding will appear. Soldered corners to achieve round corner construction will not be accepted.
- 2. Tops adjacent to walls, columns or other equipment shall be turned up integrally into a backsplash as specified. All interior corners shall be coved on a  $\frac{3}{4}$ " radius, both horizontally and vertically, forming spherical corners. Ends of backsplashes shall be fully enclosed to the low point of the top edge, fully welded, ground smooth and polished.

### B. SUPPORT FRAMING

- 1. Around the entire perimeter on the underside of all tops and set back 1" from the down-turned edge shall be a fully welded frame assembly fabricated of 1-1/2" x 1-1/2" x 1/8" stainless steel angle iron or material as specified. Provide intermediate cross bracing fabricated of the same material as the angle framing and fully weld to perimeter frame on centers not to exceed 24". Tack weld the entire frame assembly to the underside of the top surface.

2. Open base tables shall be provided with leg mounting channels for weld anchoring leg gussets and shall be fabricated of 1" x 4" x 1" 12 gauge stainless steel or material as specified fully welded at each end of frame and at intervals not to exceed 6'-0".
3. Cabinet base tables and counters shall be provided with triangular corner gusset plates for weld anchoring counter type legs and shall be fabricated of 12 gauge stainless steel fully welded at each corner of table or counter body and at intervals not to exceed 6'-0".
4. Freestanding sinks and Bain Maries shall be provided with triangular corner gusset plates for weld anchoring leg gussets and shall be fabricated of 12 gauge stainless steel, fully welded at each corner of sink or Bain Marie bottom and at intervals not to exceed 6'-0".

C. LEGS AND ADJUSTABLE BULLET FEET

1. Legs shall be constructed of 1-5/8" diameter 16 gauge stainless steel tubing. Each leg shall be swaged and tapered at the bottom. Fasten each leg to a 3-1/2" high conical shaped die-formed stainless steel gusset equivalent to Component Hardware A20-0206. Provide each leg with stainless steel adjustable foot insert equivalent to Component Hardware A10-0852.
2. Cabinet base tables and counters shall be provided with 6" high conical shaped die-formed stainless steel equipment leg with stainless steel adjustable round foot insert equivalent to Component Hardware A72-0811.

D. CROSSRAILS

1. Provide all open base tables and freestanding sinks and bain Maries with 1-1/4" diameter 16 gauge stainless steel tubular cross railing running between legs at a point 10" above the finished floor. Cross railing shall be continuously welded to legs, filleted, ground smooth and polished to provide a smooth coved radius with leg surface.
2. Where cross railing abuts cabinet base fixtures, cross railing shall be concealed bolt anchored to same utilizing stainless steel hardware.

E. UNDERSHELVES

1. Provide solid fixed undershelf, constructed of 16 gauge stainless steel. Front edge shall be turned down 1" at 90 degrees and returned 1/2" at 45 degrees. Rear and ends shall be turned up 2" high on a 90 degree angle, interior corners coved on 3/4" radius.

F. DRAWERS

1. Provide drawer pan constructed of 14 gauge stainless steel with inside corners coved on a 3/4" radius. Drawer front face shall be double pan type constructed of 16 gauge stainless steel with inner pan set into outer pan and welded in place. Drawer front shall be set into and shall be removable from a 14 gauge stainless steel, channel shaped drawer cradle. Drawer suspension slides shall be secured to drawer frame assembly and shall be Component Hardware S52 series full extension type with 14 gauge stainless steel slides with stainless steel ball bearing wheels having a load capacity of 200 pounds. Provide hard rubber bumper drawer stops. Drawer suspension guides shall be fastened to 18 gauge stainless steel housing which is suspended from the angle framing under the table top. Provide drawer fronts with full grip recessed stainless steel flush pull handles.
2. Stainless steel drawer enclosure cabinet with quantity of drawers as specified with cabinet body fabricated of 18 gauge stainless steel, wrap around construction. The backs of front stiles shall be closed with tight fitting channel sections of 18 gauge stainless steel, welded

in place, and closed on top and bottom. Drawer suspension slides shall be secured to drawer frame assembly and shall be Component Hardware S52 series full extension type with 14 gauge stainless steel slides with stainless steel ball bearing wheels having a load capacity of 200 pounds. Provide hard rubber bumper drawer stops. Provide drawer fronts with full grip recessed stainless steel flush pull handles.

G. CABINET BASES

1. Cabinet body shall be fabricated of 18 gauge stainless steel wrap around construction. The backs of front stiles shall be closed with tight fitting channel sections of 18 gauge stainless steel, welded in place and closed on top and bottom.
2. Cabinet base shelves shall be fixed bottom and intermediate fabricated of 18 gauge stainless steel. Front edge shall be turned down 1 1/2" at 90 degrees, returned 1/2" at 90 degrees. Rear and ends shall be turned up 2" at 90 degrees with interior corners coved on a 3/4" radius. Shelf shall be weld anchored to cabinet body. Bottom shelf shall be fabricated flush with front mullions with fully welded facing junctures presenting seamless construction. Fixed intermediate shelves shall be designed similar to bottom shelf except front edge shall be set behind vertical mullions and fully welded thereto.

H. SLIDING DOORS

1. Sliding doors shall be double pan type constructed of 16 gauge stainless steel with inner pan set into outer pan and welded in place. Doors shall have welded internally 1" x 4" x 1" 14 gauge stainless steel hat type reinforcing channels. Doors shall be fitted with full grip, recessed type stainless steel flush pull handles. Provide 16 gauge stainless steel angle door stops welded to door. Provide hard rubber door stops. Provide each door with two, 1 3/8" diameter stainless steel ball bearing sheaves fastened to 1" x 1/8" thick stainless steel bar stock hangers welded to top corners of each door for suspending on overhead door channel track. Provide hangers with stainless steel removable locks to prevent doors from jumping track during operation while permitting ease of removal. Fabricate overhead track of 14 gauge stainless steel and weld to cabinet body. Provide bottom of doors with nylon door guides secured to bottom shelf. Guides shall not interfere with door removal.

I. HINGED DOORS

1. Hinged doors shall be double pan type constructed of 16 gauge stainless steel with inner pan set into outer pan and welded in place. Hinges shall be stainless steel cam action pin type fastened by means of counter sunk flat head stainless steel screws staggered on centers and tapped into 1/4" thick stainless steel bar stock welded behind door jamb. Doors shall be removable from hinges without the use of tools. Doors shall be held closed by permanent magnet closure devices. Doors shall be fitted with a full grip recessed type stainless steel flush pull handles. Provide hard rubber door stop bumpers.

J. SINKS

1. Sinks shall be fabricated of 14 gauge stainless steel with all interior corners coved on a 3/4" radius both horizontally and vertically forming spherical corners.
2. Exposed edges of sink shall be finished with a 1 1/2" diameter 180 degree rolled edge, rear and sides adjacent to adjoining surfaces shall have a backsplash turned up 10" high at a 90 degree angle on a 3/4" radius and turned back 2 1/2" on a 45 degree angle, then down 1/2" at 90 degrees along back.

3. Multiple sink compartments shall be divided with double wall 14 gauge stainless steel partitions 1" wide rounded on top and all corners at a  $\frac{3}{4}$ " radius. Finish bottom, back and front with 14 gauge stainless steel to form one continuous sink with no overlapping joints or open spaces between sink compartments.
4. Integral drainboards shall be constructed of 14 gauge stainless steel. The front portion shall continue the 1  $\frac{1}{2}$ " diameter 180 degree rolled rim of the sink bowl on a continuous level horizontal plane. The surface of the drainboard shall be pitched from 2  $\frac{1}{2}$ " at the end away from the sink to 3" at the sink bowl. Sink and drainboard backsplash shall be continuous and level on the horizontal plane. All interior corners both vertical and horizontal shall be coved on a  $\frac{3}{4}$ " radius. Drainboards shall be reinforced with 1" x 4" x 1", 12 gauge stainless steel "hat" channels extending front to rear tack welded to underside of drainboard for weld anchoring leg gussets.
5. Provide crossrails extending front to rear between legs, crossrails shall not extend along rear at sink to prevent interference with plumbing.
6. Built-in sink compartments shall be fabricated as an integral part of fixture with sink fully welded with adjacent top, weld ground smooth and polished.

K. MILLWORK

1. Millwork fabricator shop shall be a certified participant in AWI's Quality Certification Program (QCP) to standard "Premium" construction.
2. Tops shall be fabricated of  $\frac{3}{4}$ " thick 5-7 ply BW marine grade plywood build up to a 1  $\frac{1}{2}$ " thickness. All plastic laminate finished edges shall be applied prior to the surface laminate. Provide cross bracing around entire perimeter below tops and above all interior dividers to minimize deflection from equipment. Tops shall be fabricated in sections as large as possible to minimize field seams. Field seams shall be assembled utilizing TB-2 yellow glue. The bottom surfaces of all tops must be sealed with gray cabinet liner to comply with Board of Health requirements. Cut-outs for drop-in equipment shall be cut in the shop and with all edges sealed. All drop-in equipment shall be pre-fitted in top prior to delivery to the job site. All drop-in equipment shall be sealed with General Electric or equivalent clear silicon sealer after installation. Hardwood edges shall be applied prior to surface laminate. All hardwood to match for color and grain. Edges to be chamfered and finished as specified. Solid surface tops shall receive full plywood substrate with  $\frac{3}{4}$ " x 3" batons for proper air space. All tops shall be prepared for installation of sneeze guards including additional blocking and / or cutouts.
3. All cabinet base and interiors shall be fabricated of  $\frac{3}{4}$ " thick 5-7 ply marine grade plywood with high-pressure laminate finish. Recessed toe base shall be 6" high fabricated of  $\frac{3}{4}$ " thick 5-7 ply marine grade plywood with 16 gauge stainless steel finish. Shelf pilasters to be recessed type 250WH with 253WH locking clips. Cabinet backs shall be fabricated of  $\frac{1}{4}$ " thick MELA-MDF board. Cabinet ends to be dadoed for back and bottom and notched to receive aprons and kicks. Butt or dowel construction will not be acceptable. Cabinets shall be assembled with TB-2 yellow glue with screws and staples. Cabinets with finished backs shall be fabricated of  $\frac{3}{4}$ " thick 5-7 marine grade plywood with high-pressure laminate finish. Cabinets over 48" in length shall have interior dividers. Dividers shall be dadoed into the bottom and notched for aprons. Dividers shall be notched as required for equipment. Aprons shall be large enough to conceal drop-in equipment and also to house control panels. Cabinet bases shall be fabricated in sections as large as possible to minimize field seams.
4. Doors shall be fabricated of  $\frac{3}{4}$ " thick MDF board with high-pressure laminate finish and shall be furnished with three BLUM 75M5580 or 75M5680 European style concealed

hinges. Door pulls shall be Hafele 116.39.437. Locks where required shall be cam style, keyed alike. Doors shall not exceed 27" in width and shall be of equal size.

5. Drawers shall be constructed of 3/8" thick birchwood with dove tail joinery. Drawer slides shall be Accuride 150 lb. full extension type with stainless steel ball bearing hardware.
6. Applied wood fascia panels and doors shall be stile and rail design. Panels to be recessed or raised as specified. All wood to be select for color and grain. Finish shall match stock color samples or custom to match furnished sample. All panels and doors to be equally sized per cabinet. Provide full wood louvered panels as required for equipment requiring air circulation. Finish all wood with stain followed by single coat of sealer. After sealer, apply one layer of Armourcote conversion varnish approved for use in food service with 55% gloss.

L. PAINTING

1. Galvanized steel shall be cleaned and degreased with mineral spirits, primed with a minimum of two coats of primer and spray finished with a minimum of two coats of gray epoxy enamel paint

M. CLOSURE TRIM

1. Provide closure trim pieces fabricated of 16 gauge stainless steel or of material and finish as specified, trim shall be one piece constructions furnished to seal both horizontal and vertical junctures and openings

2.5 STAINLESS STEEL FINISHES

- A. General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal products" for recommendations relative to applying and designating finishes.
  1. Remove or blend tool and die marks and stretch lines into finish.
  2. Grind and polish surfaces to produce uniform directional textured polished finish indicated, free of cross scratches. Run grain with long dimension of each piece.
- B. Concealed Surfaces: Minimum of 80 grit finish.
- C. Exposed Surfaces: No. 4 finish (bright, directional polish) of 180 grit.
- D. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.
- E. Protect mechanical finishes on exposed surfaces from damage by applying a strippable temporary protective covering before shipment.

2.6 STANDARDS FOR EXISTING EQUIPMENT

- A. The food service equipment contractor shall examine each item of food service equipment specified as existing to be reused prior to his submission of his bid to ascertain proper fit and alignment in its proposed location, inspect for any physical damage and to determine the present operational performance and condition of each item or any component thereof and submit to the

Owner as part of his bid the extent of repairs or replacement parts, required to recondition the entire unit for satisfactory operation.

- B. The food service equipment contractor shall disassemble each existing item to be reused, clean, service and recondition including any transport for reconditioning if required at any service agency or shop, redeliver or relocate at the project site to the new location, set-in-place, align and secure in its new location and assemble any fixtures, components and sub-assemblies, left ready for final utility connections by the Trades.
1. Cleaning of the food service equipment shall include a thorough scrapping and steam cleaning to remove scale and all foreign material.
  2. Repainting of all fabricated and buy-out items having worn or scarred exposed surfaces that are not stainless steel materials. Repainting shall be a minimum of two coats of original paint or touched-up as required.
  3. Repair any damage incurred during relocation or transit such as dents, cracks or broken welds.
  4. Replacement of door gaskets and seals and realignment for proper operation.
  5. Replace non-functioning condensate evaporators in refrigerators.
  6. Replacement of broken door hinges, drawer slide assemblies, door and drawer handles, door pans or lock assemblies.
  7. Servicing and cleaning of all condensing units, (vacuum and comb), evaporator coils, expansion valves, etc. setting and adjusting of all temperature controls to maintain normal operating temperature and charging of the refrigeration system with proper refrigerant. Refrigeration systems to be re-used shall be recharged with proper refrigerant or converted to an acceptable code compliant refrigerant.
  8. Replace or repair all plumbing components as required including faucets and waste outlets with fixtures of similar type and manufacturer.
  9. Pump-down of all refrigeration systems to be discontinued or relocated and re-claiming and disposal of all refrigerant and toxic materials as necessary.
- C. The following work shall be included as part of this contract on specified items or as required by the Owner or as determined or recommended as necessary during the site inspection.
1. Repair or replacement of all materials or parts to correct any gas, steam or electrically operated cooking appliance including power generation devices such as boilers and related mechanical and electrical heating and control components and devices.
  2. Remove, sharpen and reinstall all cutting blades on all cutting machinery including slicers, food cutters and food choppers.
  3. Recondition and lubricate electric motors and transmission devices, replacing worn or damaged gears, drive belts, etc. and repacking or replacing oil with proper type as recommended by the manufacturer.
  4. Inspecting, cleaning and upgrading of exhaust ventilation systems including fire protection systems and components. Exhaust hood shall be steam cleaned and chemically treated to remove all traces of grease and foreign material, painted exhaust hoods shall be primed and repainted with a minimum of two coats of primer and fire resistant paint, filters shall be replaced with grease extractor type filters to match design air volume requirements and fusible links shall be replaced with proper heat values. Fire system shall be inspected and recharged to full operational condition. Fire system nozzles and related piping and fittings shall be relocated and reworked to accommodate the new equipment arrangement with nozzle heads replaced as required. All ductwork shall be inspected to assure compliance

with present codes and statutes with all ductwork thoroughly cleaned. Air movement shall be measured for proper air quantities and velocities and conditions corrected to meet proper requirements. All conditions of the existing exhaust ventilation and fire protection system shall be in compliance with all current prevailing codes, statutes and NFPA requirements.

- D. All nameplates are to be left completely legible.
- E. Existing equipment to be reused shall have all utilities disconnected, terminated, or capped-off by the Plumbing, Electrical and Mechanical (HVAC) Trades.
- F. Plumbing, Electrical and Mechanical (HVAC) Trades shall provide all mechanical, electrical and HVAC services as required and provide final connection to same at the new site location.
- G. Final determination and verification of Plumbing, Electrical and Mechanical (HVAC) requirements for all existing food service equipment to be reused is the responsibility of the Mechanical and Electrical Engineer. Provisions for relocated utility requirements shall conform to current codes and statutes.

### **PART 3 - EXECUTION**

#### **3.1 EXAMINATION**

- A. Examine areas and conditions with Installer for compliance with requirements for installation tolerances, service-utility connections and other conditions affecting installation and performance of food service equipment. Do not proceed with installation until unsatisfactory conditions have been corrected.
- B. Examine roughing-in for piping, mechanical and electrical systems to verify actual locations of connections before installation

#### **3.2 INSTALLATION**

- A. Set each item of fixed food service equipment securely in place, level and adjust to correct height. Anchor to supporting surface where required for sustained operation and use without shifting or dislocation. Provide concealed anchoring where possible. Adjust work surfaces to a level tolerance of 1/16" maximum offset and slope drainage surfaces at 1/16" per foot.
- B. Complete field assembly of field joints by welding or bolting utilizing the method as indicated with the fixture. Grind all field welds smooth and polish. Set and trim all gaskets to be installed as part of field assembly.
- C. Treat enclosed spaces that are inaccessible after food service equipment installation by covering all horizontal surfaces with powdered borax at a rate of 4 ounces per square foot.

- D. Provide closure trim pieces fabricated of 16 gauge stainless steel or of material and finish as specified, trim shall be one piece construction furnished to seal both horizontal and vertical junctures and openings where the conditions given below occur:
  - 1. Food service equipment is installed into wall openings. Trim shall apply to both sides of wall opening with all corners fully welded, ground smooth and polished.
  - 2. Two or more items of food service equipment are butted together.
  - 3. Food service equipment is installed against wall, columns other equipment resulting in a gap or juncture exceeding 1/4" in width.
  - 4. An open gap of any size between the juncture or joint between adjoining items of food service equipment, wall or column surfaces which might result in the penetration or collection of grease or vermin.
- E. Provide cut-outs and openings in food service equipment as required to extend plumbing, electric, steam or gas lines through the food service equipment either for interconnection of utility lines or final connection.
- F. Seal around each item of food service equipment with sealant for gaps or spaces less than 1/4" in width and with stainless steel trim for gaps or spaces exceeding 1/4" in width. Closure strips shall conform to the shape and size of the surfaces or juncture to be sealed and shall be neatly scribed for a tight fit.

### 3.3 PROTECTION AND CLEANING

- A. Provide final protection and maintain conditions in a manner acceptable to District, Manufacturer and Installer that ensure food service equipment is without damage or deterioration at the time of Substantial Completion.
- B. After completion of the food service equipment installation and completion of other major work in the food service area remove protective coverings and clean and sanitize all food service equipment both internally and externally. Restore exposed and semi-exposed finished to remove abrasions or other surface damage, polish exposed metal surfaces and touch-up painted surfaces. Replace work which cannot be successfully restored.

### 3.4 COMMISSIONING

- A. Delay start-up of the food service equipment until utility services have been installed, completed and tested, balanced and adjusted for pressure and voltage, and until water and steam lines have been treated and cleaned for sanitation. Before start-up of the food service equipment lubricate in accordance with manufacturer's instructions.
  - 1. Coordinate food service equipment startup with service-utility testing, balancing and adjustments. Do not operate steam lines before they have been cleaned and sanitized.
- B. Provide on-site demonstration and formal technical training by the manufacturer's technical representative for each item of food service equipment as required to instruct the District and its personnel in the safe operation and sanitation and maintenance of the food service equipment.
- C. Test each item of food service equipment for proper operation.

1. Repair or replace equipment that is defective in operation including units that operate below required capacity or that operate with excessive noise or vibration.
2. Test refrigeration equipment's ability to maintain specified operating temperature under heavy-use conditions. Repair or replace equipment that does not maintain specified operating temperature.
3. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
4. Test motors and rotating equipment for proper rotation and lubricate moving parts according to manufacturer's written instructions.
5. Test water, drain, gas, steam, oil, refrigerant and liquid-carrying components for leaks. Repair or replace leaking components.
6. Train District's maintenance personnel on procedures and schedules related to startup and shutdown, troubleshooting, servicing and preventive maintenance for each food service equipment item.
7. Review data in the operation and maintenance manuals. Refer to Division 1 Section "Contract Closeout".
8. Review data in the operation and maintenance manuals. Refer to Division 1 Section "Operation and Maintenance Data".
9. Schedule training with District through Construction Manager with at least seven days advance notice.

### 3.5 SCHEDULE OF EQUIPMENT

- A. Equipment Schedule: Refer to all Contract Documents pertaining to the food service areas. Equipment itemized along with brands and model numbers and salient features establish the standard for construction, operation and engineering criteria.
- B. Equipment indicated below is intended to establish the standard of quality of the food service equipment. Alternate "Equal" products by other manufacturers may be considered if equivalent in design, performance, durability and function.
- C. This document is the intellectual property of Corsi Associates and as such use by any other entity is prohibited.

|               |                                      |
|---------------|--------------------------------------|
| ITEM #01      | REACH-IN FREEZER                     |
| Quantity:     | One (1)                              |
| Manufacturer: | True / Continental / Victory         |
| Model:        | TS-43F-HC                            |
| Options:      | Stainless steel interior             |
|               | Stainless steel exterior             |
|               | Stainless steel case back            |
|               | Field reversible doors               |
|               | Exterior mounted digital thermometer |
|               | Automatic condensate evaporator      |
|               | Castors, 4"                          |
|               | Plug and cord set                    |
|               | Pan slides on top sections           |
|               | Shelves on bottom sections           |

NEW CASTLE COUNTY VOCATIONAL –  
TECHNICAL SCHOOL DISTRICT

PAUL M. HODGSON VOCATIONAL  
TECHNICAL HIGH SCHOOL

ITEM #02                      REACH-IN REFRIGERATOR  
Quantity:                    One (1)  
Manufacturer:                True / Continental / Victory  
Model:                        TS-43-HC  
Options:                      Stainless steel interior  
                                  Stainless steel exterior  
                                  Stainless steel case back  
                                  Field reversible doors  
                                  Exterior mounted digital thermometer  
                                  Automatic condensate evaporator  
                                  Castors, 4" (set of 4)  
                                  Plug and cord set  
                                  Pan slides on top sections  
                                  Shelves on bottom sections

ITEM #03                      REFRIGERATED MERCHANDISER  
Quantity:                    One (1)  
Manufacturer:                True / Continental / Traulsen  
Model:                        GDM-49-HC~TSL01  
Options:                      Stainless steel interior  
                                  Stainless steel exterior  
                                  Stainless steel case back  
                                  Field reversible doors  
                                  Exterior mounted digital thermometer  
                                  Automatic condensate evaporator  
                                  Castors, 4" (set of 4)  
                                  Plug and cord set

ITEM #04                      ICE MAKER  
Quantity:                    Two  
Manufacturer:                Hoshizaki / Manitowoc / Ice-o-Matic  
Model:                        KM-515MAJ

ITEM #04A                    WATER FILTRATION SYSTEM FOR ICE CUBER  
Quantity:                    Two  
Manufacturer:                Everpure / 3M / Optipure  
Model:                        QC7I SINGLE 4FC-S  
Remarks:                    EV969221 Replacement cartridge (2)  
Sup Info:                    Furnish stainless steel mounting hardware of proper type for wall construction  
and to sustain weight while in use.

General contractor shall provide wall blocking as required for mounting.

Food Service Equipment Contractor shall install ice maker filter system in water supply line and furnish and install interconnecting piping between water filter and ice maker water inlet.

**END OF SECTION 114000**