NOTICE TO BIDDERS

A. This Addendum serves to clarify, revise, and supersede information in the Project Manual, Drawings, and previously issued Addenda. Portions of the Addendum affecting the Contract Documents will be incorporated into the Contract by enumeration of the Addendum in the Owner/Contractor Agreement.

B. The Bidder shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form.

C. The date for receipt of bids is unchanged by this Addendum, at same time and location.

ATTACHMENTS

D. This Addendum includes the following attached Documents and Specification Sections:
   1. Document 000110, Table of Contents (Reissued)
   2. Document 0001, Advertisement for Bids (Reissued)
   3. Document 0003, Instructions to Bidders (Reissued)
   4. Section 040110, Masonry Cleaning (New)
   5. Section 101100 – Visual Display Surfaces (Reissued)
   6. Section 102600 – Wall and Door Protection (Reissued)
   7. Section 114000, Foodservice Equipment (New)

E. This Addendum includes the following attached Sheets:
   1. Civil Drawing, C-001, dated 09/30/2020 (Reissued)
   2. Civil Drawing, C-100D, dated 09/30/2020 (Reissued)
   3. Civil Drawing, C-101D, dated 09/30/2020 (Reissued)
   4. Civil Drawing, C-200, dated 09/30/2020 (Reissued)
   5. Landscape Drawing, L131, dated 09/30/2020 (Reissued)
   6. Landscape Drawing L161, dated 09/30/2020 (Reissued)
   7. Landscape Drawing L171, dated 09/30/2020 (Reissued)
   8. Landscape Drawing L501, dated 09/30/2020 (Reissued)
   9. General Info Drawing G-001, dated 09/30/2020 (Reissued)
  10. Architectural Drawing A-002, dated 09/30/2020, (Reissued)
  11. Architectural Drawing A-100D, dated 09/30/2020, (Reissued)
  15. Architectural Drawing A-201D, dated 09/30/2020, (Reissued)
  16. Architectural Drawing A-301, dated 09/30/2020, (Reissued)
  17. Architectural Drawing A-401, dated 09/30/2020, (Reissued)
  18. Architectural Drawing A-402, dated 09/30/2020, (Reissued)
  19. Architectural Drawing A-403, dated 09/30/2020, (Reissued)
  23. Architectural Drawing A-602, dated 09/30/2020, (Reissued)
  27. Plumbing Drawing P-001, dated 09/30/2020, (Reissued)
  28. Plumbing Drawing P-002, dated 09/30/2020, (Reissued)
29. Plumbing Drawing P-003, dated 09/30/2020, (Reissued)
30. Plumbing Drawing P-100, dated 09/30/2020, (Reissued)
31. Plumbing Drawing P-101, dated 09/30/2020, (Reissued)
32. Plumbing Drawing P-102, dated 09/30/2020, (Reissued)
33. Electrical Drawing E-001, dated 09/30/2020, (Reissued)
34. Electrical Drawing E-002, dated 09/30/2020, (Reissued)
35. Electrical Drawing E-200, dated 09/30/2020, (Reissued)
36. Electrical Drawing E-201, dated 09/30/2020, (Reissued)
37. Fire Alarm Drawing FA-100, dated 09/30/2020, (Reissued)

F. Attached are the following Pre-Bid Conference Documents:
   1. Exhibit A: Pre-Bid Conference – Sign-In Sheet
   2. Exhibit B: List of Bidder Questions Addressed by Addendum 01

REVISIONS TO DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

1.1 Replace DOCUMENT 000110 – TABLE OF CONTENTS, with revised DOCUMENT 000110 – TABLE OF CONTENTS, included in the attachments.
1.2 Replace DOCUMENT 0001 – ADVERTISEMENT FOR BIDS, with revised DOCUMENT 0001 – ADVERTISEMENT FOR BIDS, included in the attachments.
1.3 Replace DOCUMENT 0003 – INSTRUCTIONS TO BIDDERS, with revised DOCUMENT 0003 – INSTRUCTIONS TO BIDDERS, included in the attachments.

REVISIONS TO DIVISIONS 02 - 49 SPECIFICATION SECTIONS

1.4 Add NEW SECTION 040110 – MASONRY CLEANING, included in the Attachments.
1.5 SECTION 064023 – INTERIOR ARCHITECTURAL WOODWORK, make the following revision at 2.4.A.2: “2. Wood Veneer Species and Cut: Refer to Finish Legend.”
1.6 SECTION 097700 – FIBERGLASS REINFORCED PLASTIC (FRP) PANELS, add subparagraph 2.1.A.1.h: “Acrovyn (Basis of Design).”
1.7 Replace SECTION 101100 – VISUAL DISPLAY SURFACES with revised SECTION 101100 – VISUAL DISPLAY SURFACES, included in the Attachments. Note revision to section: Remove dry-erase wall coverings.
1.8 Replace SECTION 102600 – WALL AND DOOR PROTECTION with revised SECTION 102600 WALL AND DOOR PROTECTION, included in the Attachments.
1.9 Delete DUPLICATE SECTION 102600 – WALL PROTECTION from the Project Manual, in its entirety.
1.10 Add NEW SECTION 114000 – FOOD SERVICE EQUIPMENT – COMMERCIAL KITCHEN EQUIPMENT LIST, included in the Attachments.
1.11 SECTION 221119 – PLUMBING SPECIALTIES, PART 2, Add the following section:
   • 2.10 FLOOR SINK
A. FS: 8” x 8” x 6” deep square lacquered cast iron body with integral seepage flange, epoxy coated interior, aluminum dome strainer, nickel bronze frame and with center opening grate.

1.12 SECTION 224000 – PLUMBING FIXTURES, make the following revisions:

- PART 2, Section 2.8 “Sink – Double Bowl Undercounter (P-4A) – Delete entire paragraph.
- PART 2, Add the following section:

2.18 DISHWASHER BOX (P-11)

A. Recessed wall box fabricated of reinforced plastic, brass fittings for connecting the supply pipe to valve, valve shall have water hammer arrestor, and ½ inch inlet x ¼ inch OD outlet compression angle valve.

1.13 SECTION 270528 – COMMUNICATION PATHWAYS AND WIRING, make the following revisions:

- PART 2, Section 2.1 “General”, Paragraph D – Delete entire paragraph.
- PART 2, Section 2.3, Paragraph A – Delete and replace with the following:

A. Standard Wall Station Outlet: Standard wall faceplate shall be four (4) position, brushed stainless steel, UNLESS NOTED OTHERWISE mounted outlet box, to accommodate RJ45 jacks. Each standard wall faceplate shall contain two (2) CAT 6 compliant RJ45 modular jacks, two (2) color-coded blue, to accommodate two cables, plus two blank inserts.

- PART 2, Section 2.5 “Data Patch Panels” – Delete entire section.
- PART 2, Section 2.6 “Patch Cords” – Delete entire section.
- PART 2, Section 2.7 “Equipment Racks” – Delete entire section.
- PART 2, Section 2.8 “Cable Supports” – Delete entire section.
- PART 3, Section 3.2 “Copper Cable Installation”, Paragraph K – Delete and replace with the following:

K. To facilitate future rearrangements, a twenty-foot (20’) service loop shall be allowed for cables in every wiring closet, with slack routed neatly on the ladder rack. Cables installed in raceways from ceiling space to outlet boxes, shall have a 12” repair loop above the ceiling, at transition from horizontal to vertical drop. Cables installed for cubicles shall be placed with a 5” slack loop in the raceway.

- PART 3, Section 3.3 “Telecommunications Station Outlets” – Delete entire section.
- PART 3, Section 3.4 “Labelling” – Delete entire section.
- PART 3, Section 3.5 “Acceptance Testing”, Paragraph B – Delete and replace with the following:
B. All copper cables shall be tested. Sample testing shall not be permitted. All tests shall be performed on the completely installed system, through all terminations, in the system’s final state, as it will be turned over to Owner.

1.14 SECTION 284621.11 – ADDRESSABLE FIRE-ALARM SYSTEMS, make the following revisions:

- PART 2, Section 2.1 “System Description” – Delete and replace with the following:
  2.1 MANUFACTURERS

  A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

  1. FACP and Equipment:
     a. Edwards Systems Technology Inc.
     b. Gamewell Company (The).
     c. Notifier Corp (The).
     d. Siemens Building Technologies.

- PART 2, Section 2.4 “Manual Fire-Alarm Boxes”, Paragraph A.1 – Delete and replace with the following:

  1. Single-action mechanism, institutional key operated only type; with integral addressable module arranged to communicate manual-station status (normal, alarm, or trouble) to fire-alarm control unit.

- PART 2, Section 2.4 “Manual Fire-Alarm Boxes”, Paragraph A – Add the following:

  3. Flush mounted and tamper resistant.

REVISIONS TO DRAWING SHEETS

1.15 Replace SHEET C-001 with revised Sheet C-001, included in the Attachments.
1.16 Replace SHEET C-100D with revised Sheet C-100D, included in the Attachments.
1.17 Replace SHEET C-101D with revised Sheet C-101D, included in the Attachments.
1.18 Replace SHEET C-200 with revised Sheet C-200, included in the Attachments.
1.19 Replace SHEET L-131 with revised Sheet L-131, included in the Attachments. Note the following revisions for Sheet 131:

- A separate plan has been provided to show the alternate surfacing and drainage
- Base condition plan includes additional perforated pipe
- Alternate condition includes additional perforated pip below PIP rubber type 1 at spinner only, to be connected to storm drainage.
• Detail call out numbers have been adjusted
• References to “alternate #1 or “deduct alternate #1” have been removed and are referred to only as “alternate”

1.20 Replace SHEET L-161 with revised Sheet L-161, included in the Attachments. Note the following revisions for Sheet L161:
• A legend has been added to the overall planting plan
• Carex flacca has been substituted for Pachysandra terminalis in the main entry planting plan. Schedule has been revised accordingly.
• Detail C5 Raised tree planting has been revised
• Courtyard planting plan has been revised to include subdrainage pipe at planting areas against the building
• Additional remarks have been added to the planting schedule for canopy and understory trees
• The size of the ‘Vintage Jade’ Distylium has been revised in the planting schedule
• The location of the Quercus bicolor along the main entry has been shifted slightly for separation from the adjacent planting beds.

1.21 Replace SHEET L-171 with revised Sheet L-171, included in the Attachments. Note the following revisions for Sheet L171:
• Sleeve size below pavement has been corrected to 4”
• Additional sleeves are indicated to help with installation and provided opportunity for expansion of system in the future
• 2 Zones are indicated – at the main entry landscape and at the courtyard.
• Rain sensor location has been provided near timeclock and controller.

1.22 Replace SHEET L-501 with revised Sheet L-501, included in the Attachments. Note the following revisions for Sheet L501:
• Detail 12/L501 has been added – Subdrainage Pipe in planting beds has been added.
• Details have been reordered to accommodate another detail on the sheet
• References to “alternate #1 or “deduct alternate #1” have been removed and are referred to only as “alternate”

1.23 Replace SHEET G-001 with Revised SHEET G-001, dated 09/30/20, included in the Attachments. Note clouded and tagged revisions.

1.24 Replace SHEET A-002 with Revised SHEET A-002, dated 09/30/20, included in the Attachments. Note clouded and tagged revisions.

1.25 Replace SHEET A-100D with Revised SHEET A-100D, dated 09/30/20, included in the Attachments. Note clouded and tagged revisions.
1.26 Replace SHEET A-101D with Revised SHEET A-101D, dated 09/30/20, included in the Attachments. Note clouded and tagged revisions.

1.27 Replace SHEET A-151D with Revised SHEET A-151D, dated 09/30/20, included in the Attachments. Note clouded and tagged revisions.

1.28 Replace SHEET A-152D with Revised SHEET A-152D, dated 09/30/20, included in the Attachments. Note clouded and tagged revisions.

1.29 Replace SHEET A-201D with Revised SHEET A-201D, dated 09/30/20, included in the Attachments. Note clouded and tagged revisions.

1.30 Replace SHEET A-301 with Revised SHEET A-301, dated 09/30/20, included in the Attachments. Note clouded and tagged revisions.

1.31 Replace SHEET A-401 with Revised SHEET A-401, dated 09/30/20, included in the Attachments. Note clouded and tagged revisions.

1.32 Replace SHEET A-402 with Revised SHEET A-402, dated 09/30/20, included in the Attachments. Note clouded and tagged revisions.

1.33 Replace SHEET A-403 with Revised SHEET A-403, dated 09/30/20, included in the Attachments. Note clouded and tagged revisions.

1.34 Replace SHEET A-404 with Revised SHEET A-404, dated 09/30/20, included in the Attachments. Note clouded and tagged revisions.

1.35 Replace SHEET A-405 with Revised SHEET A-405, dated 09/30/20, included in the Attachments. Note clouded and tagged revisions.

1.36 Replace SHEET A-501 with Revised SHEET A-501, dated 09/30/20, included in the Attachments. Note clouded and tagged revisions.

1.37 Replace SHEET A-602 with Revised SHEET A-602, dated 09/30/20, included in the Attachments. Note clouded and tagged revisions.

1.38 Replace SHEET A-720 with Revised SHEET A-720, dated 09/30/20, included in the Attachments. Note clouded and tagged revisions.

1.39 Replace SHEET A-721 with Revised SHEET A-721, dated 09/30/20, included in the Attachments. Note clouded and tagged revisions.

1.40 Replace SHEET A-722 with Revised SHEET A-722, dated 09/30/20, included in the Attachments. Note clouded and tagged revisions.

1.41 Replace SHEET P-001 with Revised SHEET P-001, dated 09/30/20, included in the Attachments. Note clouded and tagged revisions.

1.42 Replace SHEET P-002 with Revised SHEET P-002, dated 09/30/20, included in the Attachments. Note clouded and tagged revisions.

1.43 Replace SHEET P-003 with Revised SHEET P-003, dated 09/30/20, included in the Attachments. Note clouded and tagged revisions.

1.44 Replace SHEET P-100 with Revised SHEET P-100, dated 09/30/20, included in the Attachments. Note clouded and tagged revisions.

1.45 Replace SHEET P-101 with Revised SHEET P-101, dated 09/30/20, included in the Attachments. Note clouded and tagged revisions.
1.46 Replace SHEET P-102 with Revised SHEET P-102, dated 09/30/20, included in the Attachments. Note clouded and tagged revisions.

1.47 Replace SHEET E-001 with Revised SHEET E-001, dated 09/30/20, included in the Attachments. Note clouded and tagged revisions.

1.48 Replace SHEET E-002 with Revised SHEET E-002, dated 09/30/20, included in the Attachments. Note clouded and tagged revisions.

1.49 Replace SHEET E-200 with Revised SHEET E-200, dated 09/30/20, included in the Attachments. Note clouded and tagged revisions.

1.50 Replace SHEET E-201 with Revised SHEET E-201, dated 09/30/20, included in the Attachments. Note clouded and tagged revisions.

1.51 Replace SHEET FA-100 with Revised SHEET FA-100, dated 09/30/20, included in the Attachments. Note clouded and tagged revisions.

PRE-BID CONFERENCE DOCUMENTS

- EXHIBIT A: Pre-Bid Conference – Sign-In Sheet
- EXHIBIT B: List of Bidder Questions Addressed by Addendum 01

END OF ADDENDUM 01
# TABLE OF CONTENTS

## DIVISION 00 — PROCUREMENT AND CONTRACTING REQUIREMENTS

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>00015</td>
<td>ALLIANCE - FORMAL BID FORMS</td>
</tr>
<tr>
<td>0001</td>
<td>ADVERTISEMENT FOR BIDS</td>
</tr>
<tr>
<td>0002</td>
<td>INTENDED BID SCHEDULE</td>
</tr>
<tr>
<td>0003</td>
<td>INSTRUCTIONS TO BIDDERS</td>
</tr>
<tr>
<td>0004</td>
<td>NON-DISCRIMINATION AND EQUAL EMPLOYMENT OPPORTUNITY</td>
</tr>
<tr>
<td>0005</td>
<td>GUIDELINES FOR RECRUITMENT AND SELECTION OF MINORITY BUSINESSES</td>
</tr>
<tr>
<td>0006</td>
<td>FORMS CHECKLIST</td>
</tr>
<tr>
<td>A.</td>
<td>MINORITY PARTICIPATION FORMS-AFFIDAVIT A, AFFIDAVIT B, AFFIDAVIT C</td>
</tr>
<tr>
<td></td>
<td>APPENDIX E</td>
</tr>
<tr>
<td>B.</td>
<td>BID FORM</td>
</tr>
<tr>
<td>C.</td>
<td>NO REPLY BID FORM</td>
</tr>
<tr>
<td>D.</td>
<td>NON-COLLUSION AFFIDAVIT</td>
</tr>
<tr>
<td>E.</td>
<td>ALLIANCE VENDOR PROFILE FORM</td>
</tr>
<tr>
<td>F.</td>
<td>ALLIANCE EFT AUTHORIZATION FORM</td>
</tr>
<tr>
<td>G.</td>
<td>W-9 FORM</td>
</tr>
<tr>
<td>H.</td>
<td>AFFIDAVIT OF COMPLIANCE (E-VERIFY)</td>
</tr>
<tr>
<td>I.</td>
<td>SPECIAL NOTICE - NORTH CAROLINA SALES TAX</td>
</tr>
<tr>
<td>J.</td>
<td>NCDOR E-589C1 AFFIDAVIT OF CAPITAL IMPROVEMENT</td>
</tr>
<tr>
<td>K.</td>
<td>PERFORMANCE BOND - SAMPLE</td>
</tr>
<tr>
<td>L.</td>
<td>POWER OF ATTORNEY – SAMPLE</td>
</tr>
<tr>
<td>M.</td>
<td>APPENDIX E – MINORITY BUSINESS ENTERPRISE (MBE) DOCUMENTATION FOR CONTRACT PAYMENTS SAMPLE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>003126</td>
<td>EXISTING HAZARDOUS MATERIAL INFORMATION</td>
</tr>
<tr>
<td>003126A</td>
<td>HAZMAT REPORT - LEAD PAINT EXCERPT</td>
</tr>
<tr>
<td>003126B</td>
<td>UST EVALUATION</td>
</tr>
<tr>
<td>003132</td>
<td>GEOTECHNICAL DATA</td>
</tr>
<tr>
<td>003132A</td>
<td>GEOTECHNICAL EXPLORATION REPORT</td>
</tr>
<tr>
<td>006000</td>
<td>PROJECT FORMS</td>
</tr>
<tr>
<td>006313</td>
<td>REQUEST FOR INFORMATION FORM</td>
</tr>
<tr>
<td>006325</td>
<td>REQUEST FOR SUBSTITUTION FORM</td>
</tr>
</tbody>
</table>

## DIVISION 01 — GENERAL REQUIREMENTS

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>011000</td>
<td>SUMMARY</td>
</tr>
<tr>
<td>012100</td>
<td>ALLOWANCES</td>
</tr>
<tr>
<td>012200</td>
<td>UNIT PRICES</td>
</tr>
<tr>
<td>012300</td>
<td>ALTERNATES</td>
</tr>
<tr>
<td>012500</td>
<td>SUBSTITUTION PROCEDURES</td>
</tr>
<tr>
<td>012600</td>
<td>CONTRACT MODIFICATION PROCEDURES</td>
</tr>
<tr>
<td>012900</td>
<td>PAYMENT PROCEDURES</td>
</tr>
<tr>
<td>013100</td>
<td>PROJECT MANAGEMENT AND COORDINATION</td>
</tr>
<tr>
<td>013200</td>
<td>CONSTRUCTION PROGRESS DOCUMENTATION</td>
</tr>
<tr>
<td>013233</td>
<td>PHOTOGRAPHIC DOCUMENTATION</td>
</tr>
<tr>
<td>013300</td>
<td>SUBMITTAL PROCEDURES</td>
</tr>
<tr>
<td>013301</td>
<td>DIGITAL DATA LETTER OF AGREEMENT</td>
</tr>
<tr>
<td>014000</td>
<td>QUALITY REQUIREMENTS</td>
</tr>
</tbody>
</table>
014100 - SPECIAL INSPECTIONS
014101 - CONTRACTOR'S STATEMENT OF RESPONSIBILITY
015000 - TEMPORARY FACILITIES AND CONTROLS
016000 - PRODUCT REQUIREMENTS
017300 - EXECUTION
017329 - CUTTING AND PATCHING
017700 - CLOSEOUT PROCEDURES
017823 - OPERATION AND MAINTENANCE DATA
017836 - WARRANTIES
017839 - PROJECT RECORD DOCUMENTS
017900 - DEMONSTRATION AND TRAINING

DIVISION 02 — EXISTING CONDITIONS
024119 - SELECTIVE DEMOLITION

DIVISION 03 — CONCRETE
033000 - CAST-IN-PLACE CONCRETE
033300 - LANDSCAPE ARCHITECTURAL CONCRETE

DIVISION 04 — MASONRY
040110 – MASONRY CLEANING (New)
042000 - UNIT MASONRY

DIVISION 05 — METALS
051200 - STRUCTURAL STEEL FRAMING
053100 - STEEL DECKING
055000 - METAL FABRICATIONS
055813 - METAL COLUMN WRAPS

DIVISION 06 — WOOD, PLASTICS, AND COMPOSITES
061053 - MISCELLANEOUS ROUGH CARPENTRY
061600 - SHEATHING
064023 - INTERIOR ARCHITECTURAL WOODWORK

DIVISION 07 — THERMAL AND MOISTURE PROTECTION
070150 - ROOF PATCHING AND REPAIR
070150A - GAF 20 YEAR WARRANTY
072100 - THERMAL INSULATION
072419 - WATER-DRAINAGE EXTERIOR INSULATION AND FINISH SYSTEM (EIFS)
072726 - FLUID-APPLIED MEMBRANE AIR BARRIERS
074243 - METAL COMPOSITE WALL AND SOFFIT PANELS
075423 - THERMOPLASTIC POLYOLEFIN (TPO) ROOFING
076200 - SHEET METAL FLASHING AND TRIM
077100 - ROOF SPECIALTIES
077200 - ROOF ACCESSORIES
078413 - PENETRATION FIRESTOPPING
078446 - FIRE-RESISTIVE JOINT SYSTEMS
079200 - JOINT SEALANTS
079500 - EXPANSION CONTROL
DIVISION 08 — OPENINGS
  081113 - HOLLOW METAL DOORS AND FRAMES
  081416 - FLUSH WOOD DOORS
  083113 - ACCESS DOORS AND FRAMES
  084413 - GLAZED ALUMINUM CURTAIN WALLS
  085653 - SECURITY WINDOWS
  086200 - UNIT SKYLIGHTS
  087100 - DOOR HARDWARE
  087100A - DOOR HARDWARE SCHEDULE
  088000 - GLAZING
  088853 - SECURITY GLAZING
  089000 - LOUVERS

DIVISION 09 — FINISHES
  092216 - NON-STRUCTURAL METAL FRAMING
  092900 - GYPSUM BOARD
  093000 - TILING
  095113 - ACOUSTICAL PANEL CEILINGS
  096513 - RESILIENT BASE AND ACCESSORIES
  096529 - RESILIENT SHEET FLOORING
  096813 - TILE CARPETING
  097200 - WALL COVERINGS
  097700 - FIBERGLASS REINFORCED PLASTIC (FRP) PANELS
  099113 - EXTERIOR PAINTING
  099123 - INTERIOR PAINTING
  099600 - HIGH-PERFORMANCE COATINGS

DIVISION 10 — SPECIALTIES
  101100 - VISUAL DISPLAY SURFACES
  102600 - WALL AND DOOR PROTECTION
  102600 - WALL PROTECTION
  102800 - TOILET AND BATH ACCESSORIES
  104400 - FIRE-PROTECTION SPECIALTIES
  105126 - SOLID-PHENOLIC LOCKERS
  109000 - MISCELLANEOUS SPECIALTIES

DIVISION 11 — EQUIPMENT
  114000 — FOODSERVICE EQUIPMENT (New)

DIVISION 12 — FURNISHINGS
  122413 - ROLLER WINDOW SHADES
  124813 - ENTRANCE WALK-OFF MATS

DIVISION 21 — FIRE SUPPRESSION
  211313 - WET-PIPE AND DRY-PIPE SPRINKLER SYSTEMS

DIVISION 22 — PLUMBING
  220500 - BASIC PLUMBING MATERIALS & METHODS
  220523 - PLUMBING VALVES
  220529 - HANGERS & SUPPORTS FOR PLUMBING PIPE
  220553 - IDENTIFICATION FOR PLUMBING PIPING
<table>
<thead>
<tr>
<th>Section Number</th>
<th>Section Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>220700</td>
<td>PLUMBING PIPE INSULATION</td>
</tr>
<tr>
<td>221116</td>
<td>DOMESTIC WATER PIPING</td>
</tr>
<tr>
<td>221119</td>
<td>PLUMBING SPECIALTIES</td>
</tr>
<tr>
<td>221316</td>
<td>SANITARY WASTE &amp; VENT PIPING</td>
</tr>
<tr>
<td>221413</td>
<td>STORM DRAINAGE PIPING</td>
</tr>
<tr>
<td>224000</td>
<td>PLUMBING FIXTURES</td>
</tr>
<tr>
<td><strong>DIVISION 23</strong></td>
<td>HEATING VENTILATING AND AIR CONDITIONING</td>
</tr>
<tr>
<td>230500</td>
<td>BASIC MECHANICAL MATERIALS &amp; METHODS</td>
</tr>
<tr>
<td>230513</td>
<td>COMMON MOTOR REQUIREMENTS FOR HVAC EQUIPMENT</td>
</tr>
<tr>
<td>230553</td>
<td>IDENTIFICATION FOR HVAC PIPING &amp; EQUIPMENT</td>
</tr>
<tr>
<td>230593</td>
<td>TESTING, ADJUSTING, &amp; BALANCING FOR HVAC</td>
</tr>
<tr>
<td>230713</td>
<td>DUCT INSULATION</td>
</tr>
<tr>
<td>231123</td>
<td>FUEL GAS PIPING</td>
</tr>
<tr>
<td>233113</td>
<td>METAL DUCTS</td>
</tr>
<tr>
<td>233300</td>
<td>AIR DUCT ACCESSORIES</td>
</tr>
<tr>
<td>233423</td>
<td>HVAC POWER VENTILATORS</td>
</tr>
<tr>
<td>233713</td>
<td>DIFFUSERS, REGISTERS &amp; GRILLES</td>
</tr>
<tr>
<td>233723</td>
<td>HVAC GRAVITY VENTILATORS</td>
</tr>
<tr>
<td>237413</td>
<td>ROOFTOP AIR CONDITIONERS</td>
</tr>
<tr>
<td><strong>DIVISION 26</strong></td>
<td>ELECTRICAL</td>
</tr>
<tr>
<td>260100</td>
<td>BASIC ELECTRICAL MATERIALS &amp; METHODS</td>
</tr>
<tr>
<td>260519</td>
<td>LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS &amp; CABLES</td>
</tr>
<tr>
<td>260526</td>
<td>GROUNDING &amp; BONDING FOR ELECTRICAL SYSTEMS</td>
</tr>
<tr>
<td>260533</td>
<td>RACEWAYS &amp; BOXES FOR ELECTRICAL SYSTEMS</td>
</tr>
<tr>
<td>260553</td>
<td>IDENTIFICATION FOR ELECTRICAL SYSTEMS</td>
</tr>
<tr>
<td>262416</td>
<td>PANELBOARDS</td>
</tr>
<tr>
<td>262726</td>
<td>WIRING DEVICES</td>
</tr>
<tr>
<td>262813</td>
<td>FUSES</td>
</tr>
<tr>
<td>262816</td>
<td>ENCLOSED SWITCHES &amp; CIRCUIT BREAKERS</td>
</tr>
<tr>
<td>263213.13</td>
<td>DIESEL EMERGENCY ENGINE GENERATORS</td>
</tr>
<tr>
<td>263600</td>
<td>TRANSFER SWITCHES</td>
</tr>
<tr>
<td>265119</td>
<td>LED INTERIOR LIGHTING</td>
</tr>
<tr>
<td>265213</td>
<td>EMERGENCY AND EXIT LIGHTING</td>
</tr>
<tr>
<td><strong>DIVISION 27</strong></td>
<td>COMMUNICATIONS</td>
</tr>
<tr>
<td>270528</td>
<td>COMMUNICATION PATHWAYS AND WIRING</td>
</tr>
<tr>
<td>271513</td>
<td>COMMUNICATION COPPER HORIZONTAL CABLEING</td>
</tr>
<tr>
<td><strong>DIVISION 28</strong></td>
<td>ELECTRONIC SAFETY AND SECURITY</td>
</tr>
<tr>
<td>284621.11</td>
<td>ADDRESSABLE FIRE-ALARM SYSTEMS</td>
</tr>
<tr>
<td><strong>DIVISION 31</strong></td>
<td>EARTHWORK</td>
</tr>
<tr>
<td>311000</td>
<td>SITE CLEARING</td>
</tr>
<tr>
<td>313116</td>
<td>TERMITE CONTROL</td>
</tr>
<tr>
<td><strong>DIVISION 32</strong></td>
<td>EXTERIOR IMPROVEMENTS</td>
</tr>
<tr>
<td>321216</td>
<td>ASPHALT PAVING</td>
</tr>
<tr>
<td>321313</td>
<td>FL - CONCRETE PAVING</td>
</tr>
<tr>
<td>321373</td>
<td>FL - CONCRETE PAVING JOINT SEALANTS</td>
</tr>
<tr>
<td>321723</td>
<td>PAVEMENT MARKINGS</td>
</tr>
<tr>
<td>321813</td>
<td>SYNTHETIC GRASS SURFACING</td>
</tr>
</tbody>
</table>
321816.13 - PLAYGROUND PROTECTIVE SURFACING
323123 - WELDED WIRE FENCING
323300 - SITE FURNISHINGS
328400 - PLANTING IRRIGATION
329200 - TURF AND GRASSES
329300 - PLANTS

DIVISION 33 — UTILITIES
334200 - STORMWATER CONVEYANCE

END OF TABLE OF CONTENTS
This page intentionally left blank.
0001 – ADVERTISEMENT FOR BIDS
Invitation for Bids – Construction Services
IFB 21-003
General Construction - Phase D
Alliance Child Crisis Center
400 W. Ransom St., Fuquay Varina, NC 27526

Pursuant to the General Statutes of North Carolina, Section 143-129, sealed proposals are invited and will be received by Alliance Health Home Office until Wednesday, October 7, 2020 by 3:00 PM, ET at 5200 W. Paramount Pkwy, Suite 200, Morrisville, NC 27560.

Description of project and location:
The project renovations and additions to an existing shell building to create a new Child and Adolescent Facility-Based Crisis Center and a Behavioral Health Urgent Care. The project will generally include site work, general construction, warranted roofing alterations, mechanical, electrical, plumbing and fire protection work. Alliance Health has performed the following work by separate contract prior to the commencement of Phase D: Phase A – Interior Demolition and Abatement, Phase B – Roof Replacement, and Phase C – Pavement Repair. Any alternates will be as indicated in the Technical Specifications.

Plans, Drawings, Specifications, Contract Documents & Addenda:
Complete plans, specifications, contract documents and Addenda may be obtained electronically by going to http://infoexchange.ls3p.com and login using your e-mail address and “anonymous” as the password. Click on the download link for the Alliance Child Crisis Center.

From the date of this advertisement until proposal due date, the Advertisement for Bids and Addendums issued will be posted on the Alliance website: https://www.alliancehealthplan.org/ as needed under About Alliance/Work with Alliance/RFP's, RFI's, RFQs, Q&A’s available from LS3P, and available at the following locations:

<table>
<thead>
<tr>
<th>Business/Entity</th>
<th>City</th>
<th>Location/Phone</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duncan Parnell</td>
<td>Raleigh, NC</td>
<td>201 Glenwood Ave.</td>
<td><a href="https://www.duncan-parnell.com/planrooms">https://www.duncan-parnell.com/planrooms</a></td>
</tr>
<tr>
<td>Carolinas Association of General Contractors (now Construct Connect)</td>
<td></td>
<td>800-364-2059</td>
<td><a href="https://www.constructconnect.com/">https://www.constructconnect.com/</a></td>
</tr>
<tr>
<td>Construction Market Data (now Construct Connect)</td>
<td></td>
<td>800-364-2059</td>
<td><a href="https://www.constructconnect.com/">https://www.constructconnect.com/</a></td>
</tr>
<tr>
<td>Hispanic Contractors Association of the Carolinas (HCAC)</td>
<td>Winston-Salem/Charlotte/Raleigh Areas</td>
<td>704-583-4184</td>
<td><a href="mailto:info@hcacarolinas.org">info@hcacarolinas.org</a> <a href="http://www.hcacarolinas.org">www.hcacarolinas.org</a></td>
</tr>
</tbody>
</table>
Contractors who bid shall be licensed to do work in the State of North Carolina under the Act to Regulate the Practice of General Contracting.

**Mandatory Pre-Bid Conference:** See Intended Bid Schedule in Section 0002 below. **Note:** Please check in at the front desk. The pre-bid conference is Mandatory and sign-in upon arrival is required.

**Mandatory Site Visit:** A Mandatory site visit will be held directly following the Mandatory pre-bid meeting to provide potential bidders with an opportunity to view the project site and become familiar with existing conditions. No other site visits will be conducted. All Bidders who intend to bid are required to attend the Mandatory pre-bid and the Mandatory Site Visit. During the site visit, information shall not be exchanged, and no interpretations of the contract documents shall be made.

3. **Questions:** See Intended Bid Schedule in Section 0002 below.

4. **Addendums:** Answers to questions will be addressed in an Addendum. Any Addendums issued will be posted on Alliance’s website [https://www.alliancehealthplan.org/](https://www.alliancehealthplan.org/) as needed under About Alliance/Work with Alliance/RFP’s, RFI’s, RFQs, Q&A’s; will be on file with LS3P and available at the above listed locations. Addendums issued will become part thereof the contract. It shall be the Contractor’s responsibility to ascertain bid includes any changes issued in Addendums.

   The Architect will not be responsible for any explanation or interpretation of the proposed documents. Neither the Owner nor the Architect will be responsible for any oral instructions. Any interpretation of the proposed document will be made only by Addendum duly issued.

   All Addenda shall be acknowledged by the Bidder(s) on the Bid Form. Failure to do so shall disqualify the bid and shall cause the bid to be rejected.

   **Note:** Alliance Health is not responsible for direct distribution of addenda to all vendors who wish to submit a proposal. Alliance Health cannot guarantee internet access. It is highly recommended that vendors review posting locations for any additional information prior to the bid closing date and time.

5. **Substitutions:** in accordance with the provisions of G.S. 133-3, material, product, or equipment substitutions proposed by the bidders to those specified herein can only be considered during the bidding phase until ten (10) days prior to the receipt of bids when submitted to the Architect with sufficient data to confirm material, product, or equipment equality. Proposed substitutions submitted after this time will be considered only as potential change order.

   Submittals for proposed substitutions shall include the following information:
   a. Name, address, and telephone number of manufacturer and supplier as appropriate.
   b. Trade name, model or catalog designation.
   c. Product data including performance and test data, reference standards, and technical descriptions of material, product, or equipment. Include color samples and samples of available finishes as appropriate.
   d. Detailed comparison with specified products including performance capabilities, warranties, and test results.
   e. Other pertinent data including data requested by the Designer to confirm product equality.

   If a proposed material, product, or equipment substitution is deemed equal by the Architect to those specified, all bidders of record will be notified by Addendum.
6. **Proposals:** Proposal due date and delivery address: See Intended Bid Schedule in Section 0002 below

**Note:** Bids will be opened publicly.

All copies of the Bid, the Bid Bond/Security, and any other documents required to be submitted with the Bid shall be enclosed in a sealed opaque envelope.

Submit one (1) original hard copy **no later than the date and time proposals are due.**

Submit one (1) flash drive with a digital copy **no later than twenty-four (24) hours after proposals are due.**

**Envelope shall be identified with the project name, bid number (IFB 21-003), due date and time, the Bidder’s name, address, and the Contractor’s North Carolina license number.**

**Notes:** It is the responsibility of the Bidder to ensure that the bid arrives at or before the time and date indicated. Alliance is not responsible for mail or delivery system failures. Bids received after the due date and time will not be opened.

The IFB is provided as a .pdf document. The expectation for filling out required forms is to print these forms, fill in (handwritten is acceptable), sign and **notarize** as necessary, and return with submittal.

**COVID-19 BID OPENING PROTOCOL**

**In-person attendance:** limit of one (1) attendee per bidder.

**Remote attendance via Zoom:** [https://alliancehealthplan.zoom.us/j/97087659403](https://alliancehealthplan.zoom.us/j/97087659403) or Call-in number is (646) 558-8656 meeting ID: 970 8765 9403 – Virtual attendees will be placed in a waiting room until meeting begins.

Check in at first floor reception, please maintain social distancing. **Masks are required.**

Fill out COVID-19 screening questionnaire – if yes to any answers, attendee will be asked to attend virtually:

- Have you traveled to a CDC designated Level III country in the last 30 days? (We have a list of those countries to refer to if needed)
- Do you believe you have been exposed to someone who has a confirmed case of COVID-19?
- Are you experiencing symptoms of COVID-19, which include fever, cough and shortness of breath?

At the time of the bid opening, attendees will be escorted to meeting room.

Attendees will need to adhere to social distancing and designated seating will be spaced out accordingly.
1. **General Information:** For a Bid to be considered, it shall be in accordance with the following instructions:

   Bids shall be made in strict accordance with the “Bid Form” provided herein and all blank spaces for the Bid Alternates and Unit Prices shall be properly filled in. When requested alternates are not bid, the Bidder shall indicate by the words “No Bid”. Any blanks shall be interpreted as “No Bid”. The Bidder agrees that Bids on a Bid Form detached from specifications will be considered and will have the same force and effect as if attached hereto. Bid numbers shall be stated both in writing and in figures for the Base Bid and Alternates. If figures and writing differ, the written number will supersede the figures.

   Any modifications to the Form of Proposal (including alternates and/or unit prices) will disqualify the bid and may cause the bid to be rejected.

   **Bids are invited on the basis of a Single Prime Contract.**

   The Contractor shall fill in the Bid Form as follows:
   
   A. If the documents are executed by a sole Owner, that fact shall be evidenced by the word “Owner” appearing after the name of the person.
   
   B. If the documents are executed by a Partnership, that fact shall be evidenced by the word “Co-Partner” appearing after the name of the partner executing them.
   
   C. If the documents are executed on the part of a Corporation, they shall be executed by either the President or the Vice-President and attested by the Secretary or Assistant Secretary in either case or the title of the office of such person shall appear after their signatures. The Seal of the Corporation shall be impressed on each signature page of the documents.
   
   D. If the Bid is made by a Joint Venture, it shall be executed by each member of the Joint Venture in the above form for sole Owner, Partnership, or Corporation, whichever form is applicable.
   
   E. All signatures shall be properly witnessed.
   
   F. It shall be the specific responsibility of the Bidder to deliver this Bid to the proper official at the appointed place and prior to the time for the opening of the Bids. Late delivery of a Bid for any reason, including delivery by the United States Mail, shall disqualify the Bid.
   
   G. Modifications of previously deposited Bids will be acceptable only if delivered to the place of the bid opening prior to the time for opening Bids.
   
   H. Unit Prices quoted in the Bids shall include overhead and profit and shall be the full compensation for the Contractor’s cost involved in the work.

   **Contractors who bid shall be licensed to do work in the State of North Carolina under the Act to Regulate the Practice of General Contracting.**

2. **Examination of Conditions:** It is understood and mutually agreed that by submitting a Bid the Contractor acknowledges that he/she has carefully examined the bidding documents pertaining to the work, the locations, accessibility and general character of the site of the work and all existing buildings and structures within and adjacent to the site; and has satisfied him/herself as to the nature of the work, the condition of the existing buildings and structures, the conformation of the ground, the character, quality and quantity of the materials to be encountered; the character of the equipment, machinery, plant and other facilities needed preliminary to and during prosecuting of the work; the general and local conditions; the construction hazards; and all other matters, including but not limited to, the labor situation which can in any way affect the work under the Contract; and including all safety measures required by the Occupational Safety Health Act of 1970 and all rules and regulations issued pursuant thereto. It is further mutually agreed that by submitting a Bid, the Contractor acknowledges that he/she has satisfied him/herself as to the feasibility and meaning of the plans, drawings, Specifications, and other contract documents for the construction of the work, that he/she accepts all terms, conditions and stipulations contained therein, and that he/she is prepared to work in cooperation with the other contractors performing work on the site.
Reference is made to contract documents for the identification of those surveys and investigation reports of subsurface or latent physical conditions at the site or otherwise affecting performance of the work, which have been relied upon by the designer in preparing the documents. The owner will make copies of all such surveys and reports available to the bidder upon request.

Each bidder may, at his own expense, make such additional surveys and investigations, as he may deem necessary to determine his bid price for the performance of the work. Any on-site investigation shall be done at the convenience of the owner. Any reasonable request for access to the site prior to bid due date will be honored by the owner.

In addition to the Mandatory Pre-Bid Conference and Site Visit, bidders will be permitted to examine the site and existing building on the following dates and times:
- Monday, October 5, 2020 from 10 am to 11 am
- Tuesday, October 6, 2020 from 10 am to 11 am

3. **Bid Tabulation:** Bids will be examined promptly after private opening and award will be made at the earliest possible date. The prices quoted shall be held firm for ninety (90) days.

Bid withdrawal after opening is permitted only if all conditions specified in North Carolina General Statutes Section 143-129.1

Bids shall be evaluated using the Total Bid. The Total Bid shall be the summation of the product of all of the Items’ Unit Bid Prices by their Estimated Quantities. In the event of a math error, the Extended Totals and the Total Bid will be corrected based on the Unit Price furnished in the bid. Bids with math errors will be compared using the corrected Total Bid (i.e., the math shall be correct before a bid is considered for award).

4. **Bid Evaluation and Award:** The Owner shall award the contract to the lowest responsible, responsive Bidder taking into consideration the past performance of the Bidder on Construction Contracts for Alliance Health, the State of North Carolina, or other governmental agencies with particular concern given to completion times, quality of work, cooperation with other Contractors, and cooperation with the Architect and Owner.

In the event the lowest responsible bids are in excess of the funds available for the project, Alliance will enter into negotiations with the lowest responsible bidder, making reasonable changes in the plans and specifications as may be necessary to bring the contract price within the funds available. If a contract cannot be let under the above conditions, Alliance is authorized to re-advertise, as herein provided, after having made such changes in plans and specifications as may be necessary to bring the cost of the project or purchase within the funds available therefor. The procedure above specified may be repeated if necessary in order to secure an acceptable contract within the funds available therefor.

5. **Contract:** American Institute of Architects AIA A101-2007, Agreement between Owner and Contractor, and the AIA A201-2007, General Conditions of the Contract for Construction will be utilized. The IFB, Addendums, Bid Proposal, and other bid documents as necessary will be attached to the construction contract.

6. **Lien Agent:** Pursuant to 44A-34, Article 1 and 2 of Chapter 44A are not applicable to public bodies or public buildings. Therefore is not applicable to this project.

7. **Performance Bond and Power of Attorney:** The Contractor shall furnish bonds covering the faithful performance of the Contract and payment of obligations arising thereunder as stipulated in bidding requirements or required by North Carolina law. Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or shall permit a copy to be made.

Power of Attorney shall be included when submitting a Performance Bond.

8. **Insurance:** Contractor shall procure and maintain for the duration of the contract the following insurance coverage from an insurance company(s) possessing a rating of A-VI or higher from the A.M. Best
Company or an equivalent rating service. All of the policies required of the Contractor shall contain a waiver of subrogation provision to waive all rights of recovery under subrogation or otherwise against Alliance. Contractor shall advise Alliance of any cancellation, non-renewal, or material change in any policy within ten (10) days of notification of such action and provide updated certificates of insurance evidencing renewals within fifteen (15) days of expiration. All of the policies required of the Contractor shall be primary and the Contractor agrees that any insurance or self-funded liability programs maintained by Alliance shall be non-contributing with respect to the Contractor's insurance.

8.1 Commercial General Liability
Shall be a limit of not less than $2,000,000 per occurrence and $5,000,000 aggregate. Coverage shall be in a form providing coverage not less than the standard Insurance Services Office Form CG 00 01 and include products and completed operations, property damage, bodily injury, and personal & advertising injury. The products-completed operations coverage shall be provided for a minimum of six (6) years following final acceptance of the work.

8.2 Commercial Automobile Liability
Shall be a limit of not less than $2,000,000 per occurrence for any (Code 1) vehicle.

8.3 Worker’s Compensation and Employers Liability
Shall be at North Carolina statutory limits. Contractor shall satisfy all compulsory requirements relating to workers compensation in any jurisdiction in which benefits may be claimed. Employers Liability shall be a limit of not less than $1,000,000 per accident for bodily injury or disease.

8.4 Professional Liability
Shall be a limit of not less than $5,000,000 per occurrence or claim, and $5,000,000 aggregate. There shall be an extended reporting period of not less than six (6) years.

8.5 Contractor’s Pollution Legal Liability
Shall be at a limit not less than $5,000,000 per occurrence or claim and $5,000,000 aggregate.

8.6 “All Risk” Property (Contractor’s Property)
Replacement cost coverage under an “All Risk” policy for any of the Contractor’s real or personal property. Policy shall include coverage for equipment owned, leased, rented, and borrowed, whether such equipment is located at a job site or “in transit.”

9. Builders Risk – The Contractor is not responsible for this. Alliance shall provide its own coverage.

Insurance coverage shall be obtained from companies that are authorized to provide such coverage and that are authorized by the Commissioner of Insurance to do business in North Carolina. Contractor, upon request, shall furnish Alliance with complete copies of insurance policies required. By requiring insurance herein, Alliance does not represent that coverage, limits will necessarily be adequate to protect Contractor and such coverage, and limits shall not be deemed as a limitation on Contractor’s liability under the indemnities granted to Alliance in this Contract. Any umbrella or excess liability coverage shall be at least as broad as the primary coverage and contain all coverage provisions that are required of the primary coverage.

The failure of Alliance at any time to enforce the insurance provisions, to demand such certificates of insurance, or to identify a deficiency shall not constitute a waiver of those provisions, nor reduce the obligations of the Contractor to maintain such insurance or to meet its obligations under the indemnification provisions.

The contractor shall provide Alliance a valid certificate of insurance, in advance of the performance of any work, exhibiting coverage as required by Alliance. Providing and maintaining adequate insurance coverage is a material obligation of the Contractor. Contractor shall require its subcontractors to maintain insurance coverage required herein or cover the subcontractors’ under the Contractor’s policies. The Certificate of Insurance shall be provided on the industry standard form (ACORD 25).
Notwithstanding the foregoing, nothing contained in this section shall be deemed to constitute a waiver of the governmental immunity of Alliance, which immunity is hereby reserved to Alliance.

10. **Contract Completion Time:** Commencement of onsite Construction Activities: Immediately upon award of contract; Substantial Completion Date: no later than June 1, 2021 (or later date as determined by Alliance).

11. **Security of Non-public Records:** Pursuant to N.C.G.S. § 132-1.7, entitled, “Sensitive Public Security Information”, public records, as defined in G.S. 132-1, shall not include information containing specific details of public security plans and arrangements or the detailed plans and drawings of public buildings and infrastructure facilities. Therefore, all information provided, received, gathered or obtained by Bidder containing specific details of public security plans and arrangements or the detailed plans and drawings of public buildings and infrastructure facilities shall be held confidential and shall be used by the Bidder only for responding to this bid. All plans and drawings shall be returned to Alliance. Any breach of this paragraph by the Bidder may result in Bidder being barred from being awarded any contracts with Alliance.

12. **E-Verify:** As a condition of payment for services rendered under this agreement, Contractor shall comply with the requirements of Article 2 of Chapter 64 of the General Statutes, as applicable. Further, if Contractor provides the services to Alliance utilizing a subcontractor, Contractor shall require the subcontractor to comply with the requirements of Article 2 of Chapter 64 of the General Statutes as well. Contractor shall verify, by affidavit, compliance of the terms of this section upon request by Alliance.
SECTION 040110 - MASONRY CLEANING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes cleaning the following:
   1. Unit masonry surfaces.

1.3 ALLOWANCES

A. Allowances for cleaning masonry are specified in Section 012100 "Allowances."

1.4 DEFINITIONS

A. Very Low-Pressure Spray: Under 100 psi.
B. Low-Pressure Spray: 100 to 400 psi; 4 to 6 gpm.
C. Medium-Pressure Spray: 400 to 800 psi; 4 to 6 gpm.

1.5 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.
   1. Review methods and procedures related to cleaning masonry including, but not limited to, the following:
      a. Verify masonry-cleaning equipment and facilities needed to make progress and avoid delays.
      b. Materials, material application, and sequencing.
      c. Cleaning program.
      d. Coordination with building occupants.

1.6 SEQUENCING AND SCHEDULING

A. Work Sequence: Perform masonry-cleaning work in the following sequence:
1. Remove plant growth.
2. Inspect for open mortar joints. Where repairs are required, delay further cleaning work until after repairs are completed, cured, and dried to prevent the intrusion of water and other cleaning materials into the wall.
3. Remove paint.
4. Clean masonry surfaces.
5. Where water repellents are to be used on or near masonry, delay application of these chemicals until after cleaning.

B. As scaffolding is removed, patch anchor holes used to attach scaffolding. Patch holes in masonry units according to masonry repair Sections. Patch holes in mortar joints according to masonry repointing Sections.

1.7 ACTION SUBMITTALS

A. Product Data: For each type of product.
   1. Include material descriptions and application instructions.
   2. Include test data substantiating that products comply with requirements.

1.8 INFORMATIONAL SUBMITTALS

A. Qualification Data: For paint-remover manufacturer and chemical-cleaner manufacturer.

B. Preconstruction Test Reports: For cleaning materials and methods.

C. Cleaning program.

1.9 QUALITY ASSURANCE

A. Paint-Remover Manufacturer Qualifications: A firm regularly engaged in producing masonry cleaners that have been used for similar applications with successful results, and with factory-authorized service representatives who are available for consultation and Project-site inspection, preconstruction product testing, and on-site assistance.

B. Chemical-Cleaner Manufacturer Qualifications: A firm regularly engaged in producing masonry cleaners that have been used for similar applications with successful results, and with factory-authorized service representatives who are available for consultation and Project-site inspection, preconstruction product testing, and on-site assistance.

C. Cleaning Program: Prepare a written cleaning program that describes cleaning process in detail, including materials, methods, and equipment to be used; protection of surrounding materials; and control of runoff during operations. Include provisions for supervising worker performance and preventing damage.
   1. If materials and methods other than those indicated are proposed for any phase of cleaning work, add a written description of such materials and methods, including
evidence of successful use on comparable projects and demonstrations to show their effectiveness for this Project.

D. Mockups: Prepare mockups of cleaning on existing surfaces to demonstrate aesthetic effects and to set quality standards for materials and execution.

1. Cleaning: Clean an area as indicated for each type of masonry and surface condition.
   a. Test cleaners and methods on samples of adjacent materials for possible adverse reactions. Do not test cleaners and methods known to have deleterious effect.
   b. Allow a waiting period of not less than seven days after completion of sample cleaning to permit a study of sample panels for negative reactions.

2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.

1.10 PRECONSTRUCTION TESTING

A. Preconstruction Testing Service: Engage one or more chemical-cleaner and paint-remover manufacturers to perform preconstruction testing on masonry surfaces.

1. Use test areas as indicated and representative of proposed materials and existing construction.
2. Propose changes to materials and methods to suit Project.

1.11 FIELD CONDITIONS

A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit masonry-cleaning work to be performed according to product manufacturers' written instructions and specified requirements.

B. Clean masonry surfaces only when air temperature is 40 deg F and above and is predicted to remain so for at least seven days after completion of cleaning.

PART 2 - PRODUCTS

2.1 PAINT REMOVERS

A. Solvent-Type Paste Paint Remover: Manufacturer's standard water-rinseable, solvent-type paste or gel formulation, for removing paint from masonry.

1. Subject to compliance with requirements, provide product by one of the following or comparable Architect approved product:
b. Hydroclean; Hydrochemical Techniques, Inc.
c. Prosoco, Inc.
d. Shore Corporation.

B. Low-Odor, Solvent-Type Paste Paint Remover: Manufacturer's standard low-odor, water-rinseable, solvent-type paste, gel, or foamed emulsion formulation, for removing paint from masonry; containing no methanol or methylene chloride.

1. Subject to compliance with requirements, provide product by one of the following or comparable Architect approved product:
   b. Dumond Chemicals, Inc.
   c. EaCo Chemical, Inc.
   d. Prosoco, Inc.

2.2 CLEANING MATERIALS

A. Water: Potable.

B. Hot Water: Water heated to a temperature of 140 to 160 deg F.

C. Detergent Solution, Job Mixed: Solution prepared by mixing 2 cups of tetrasodium pyrophosphate (TSPP), 1/2 cup of laundry detergent, and 20 quarts of hot water for every 5 gal. of solution required.

D. Mold, Mildew, and Algae Remover, Job Mixed: Solution prepared by mixing 2 cups of tetrasodium pyrophosphate (TSPP), 5 quarts of 5 percent sodium hypochlorite (bleach), and 15 quarts of hot water for every 5 gal. of solution required.

A. Mild-Acid Cleaner: Manufacturer's standard mild-acid cleaner containing no muriatic (hydrochloric), hydrofluoric, or sulfuric acid; or ammonium bifluoride or chlorine bleaches.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
   a. American Building Restoration Products, Inc.
   b. Diedrich Technologies, Inc.; a Hohmann & Barnard company.
   c. Prosoco, Inc.

PART 3 - EXECUTION

3.1 MASONRY-CLEANING SPECIALIST

A. Masonry-Cleaning Specialist Firms: Subject to compliance with requirements, Architect-approved firms that provide masonry cleaning.
3.2 PROTECTION

A. Comply with each manufacturer’s written instructions for protecting building and other surfaces against damage from exposure to its products. Prevent paint removers and chemical cleaning solutions from coming into contact with people, motor vehicles, landscaping, buildings, and other surfaces that could be harmed by such contact.

1. Cover adjacent surfaces with materials that are proven to resist paint removers and chemical cleaners used unless products being used will not damage adjacent surfaces. Use protective materials that are waterproof and UV resistant. Apply masking agents according to manufacturer’s written instructions. Do not apply liquid strippable masking agent to painted or porous surfaces. When no longer needed, promptly remove masking to prevent adhesive staining.

2. Do not apply chemical solutions during winds of enough force to spread them to unprotected surfaces.

3. Neutralize alkaline and acid wastes before disposal.

4. Dispose of runoff from operations by legal means and in a manner that prevents soil erosion, undermining of paving and foundations, damage to landscaping, and water penetration into building interiors.

B. Remove gutters and downspouts and associated hardware adjacent to immediate work area and store during masonry cleaning. Reinstall when masonry cleaning is complete.

1. Provide temporary rain drainage during work to direct water away from building.

3.3 CLEANING MASONRY, GENERAL

A. Cleaning Appearance Standard: Cleaned surfaces are to have a uniform appearance as viewed from 20 feet away by Architect.

B. Proceed with cleaning in an orderly manner; work from bottom to top of each scaffold width and from one end of each elevation to the other. Ensure that dirty residues and rinse water do not wash over dry, cleaned surfaces.

C. Use only those cleaning methods indicated for each masonry material and location.

1. Brushes: Do not use wire brushes or brushes that are not resistant to chemical cleaner being used.

2. Spray Equipment: Use spray equipment that provides controlled application at volume and pressure indicated, measured at nozzle. Adjust pressure and volume to ensure that cleaning methods do not damage surfaces, including joints.

   a. Equip units with pressure gages.
   b. For chemical-cleaner spray application, use low-pressure tank or chemical pump suitable for chemical cleaner indicated, equipped with nozzle having a cone-shaped spray.
   c. For water-spray application, use fan-shaped spray that disperses water at an angle of 25 to 50 degrees.
d. For heated water-spray application, use equipment capable of maintaining temperature between 140 and 160 deg F at flow rates indicated.
e. For steam application, use steam generator capable of delivering live steam at nozzle.

D. Perform each cleaning method indicated in a manner that results in uniform coverage of all surfaces, including corners, moldings, and interstices, and that produces an even effect without streaking or damaging masonry surfaces. Keep wall wet below area being cleaned to prevent streaking from runoff.

E. Perform additional general cleaning, paint and stain removal, and spot cleaning of small areas that are noticeably different when viewed according to the "Cleaning Appearance Standard" Paragraph, so that cleaned surfaces blend smoothly into surrounding areas.

F. Water Application Methods:
   1. Water-Soak Application: Soak masonry surfaces by applying water continuously and uniformly to limited area for time indicated. Apply water at low pressures and low volumes in multiple fine sprays using perforated hoses or multiple spray nozzles. Erect a protective enclosure constructed of polyethylene sheeting to cover area being sprayed.
   2. Water-Spray Applications: Unless otherwise indicated, hold spray nozzle at least 6 inches from masonry surface and apply water in horizontal back-and-forth sweeping motion, overlapping previous strokes to produce uniform coverage.

G. Steam Cleaning: Apply steam to masonry surfaces at the very low pressures indicated for each type of masonry. Hold nozzle at least 6 inches from masonry surface and apply steam in horizontal back-and-forth sweeping motion, overlapping previous strokes to produce uniform coverage.

H. Chemical-Cleaner Application Methods: Apply chemical cleaners to masonry surfaces according to chemical-cleaner manufacturer's written instructions; use brush application. Do not spray apply at pressures exceeding 50 psi. Do not allow chemicals to remain on surface for periods longer than those indicated or recommended in writing by manufacturer.

I. Rinse off chemical residue and soil by working upward from bottom to top of each treated area at each stage or scaffold setting. Periodically during each rinse, test pH of rinse water running off of cleaned area to determine that chemical cleaner is completely removed.
   1. Apply neutralizing agent and repeat rinse if necessary to produce tested pH of between 6.7 and 7.5.

J. After cleaning is complete, remove protection no longer required. Remove tape and adhesive marks.

3.4 PRELIMINARY CLEANING

A. Removing Plant Growth: Completely remove visible plant, moss, and shrub growth from masonry surfaces. Carefully remove plants, creepers, and vegetation by cutting at roots and
allowing remaining growth to dry as long as possible before removal. Remove loose soil and plant debris from open joints to whatever depth they occur.

B. Preliminary Cleaning: Before beginning general cleaning, remove extraneous substances that are resistant to planned cleaning methods. Extraneous substances include paint, calking, asphalt, and tar.

1. Carefully remove heavy accumulations of rigid materials from masonry surface with sharp chisel. Do not scratch or chip masonry surface.
2. Remove paint and calking.
   b. Repeat application up to two times if needed.
3. Remove asphalt and tar with solvent-type paste paint remover.
   b. Apply paint remover only to asphalt and tar by brush without prewetting.
   c. Allow paint remover to remain on surface for 10 to 30 minutes.
   d. Repeat application if needed.

C. PAINT REMOVAL <Paint-Remover Application, General: Apply paint removers according to paint-remover manufacturer's written instructions. Do not allow paint removers to remain on surface for periods longer than those indicated or recommended in writing by manufacturer.

D. Paint Removal with Solvent-Type Paste Paint Remover:
1. Apply thick coating of paint remover to painted surface with natural-fiber cleaning brush, deep-nap roller, or large paint brush. Apply in one or two coats according to manufacturer's written instructions.
2. Allow paint remover to remain on surface for period recommended in writing by manufacturer or as determined by preconstruction testing.
3. Rinse with water spray at a pressure according to manufacturer’s written instructions to remove chemicals and paint residue.

3.5 CLEANING MASONRY

A. Mild-Acid Chemical Cleaning:
1. Wet surface with cold water applied by low-pressure spray.
2. Apply cleaner to surface in two applications by brush or low-pressure spray.
3. Let cleaner remain on surface for period recommended in writing by chemical-cleaner manufacturer.
4. Rinse with cold water applied by low-pressure spray to remove chemicals and soil.
5. Repeat cleaning procedure above where required to produce cleaning effect established by mockup. Do not repeat more than once. If additional cleaning is required, use steam cleaning.
3.6 FINAL CLEANING

A. Clean adjacent nonmasonry surfaces of spillage and debris. Use detergent and soft brushes or cloths.

B. Remove debris from gutters and downspouts. Rinse off roof and flush gutters and downspouts.

C. Remove masking materials, leaving no residues that could trap dirt.

END OF SECTION 040110
PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:
   1. Markerboards.
   2. Tackboards.
   3. Dry-erase wall coverings.

1.3 DEFINITIONS

A. Tackboard: Framed or unframed, tackable, visual display board assembly.

B. Visual Display Board Assembly: Visual display surface that is factory fabricated into composite panel form, either with or without a perimeter frame; includes markerboards and tackboards.

C. Visual Display Surface: Surfaces that are used to convey information visually, including surfaces of chalkboards, markerboards, tackboards, and surfacing materials that are not fabricated into composite panel form but are applied directly to walls.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for visual display surfaces.

B. Shop Drawings: For visual display surfaces.
   1. Include dimensioned elevations. Show location of joints between individual panels where unit dimensions exceed maximum panel length.
   2. Include sections of typical trim members.
   3. Show anchors, grounds, reinforcement, accessories, layout, and installation details.

C. Samples: For each type of visual display surface with factory-applied color finishes.
   1. Visual Display Surface: Not less than 8-1/2 by 11 inches, mounted on substrate indicated for final Work. Include one panel for each type, color, and texture required.
1.5 INFORMATIONAL SUBMITTALS
   A. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for surface-burning characteristics of fabrics.

1.6 CLOSEOUT SUBMITTALS
   A. Maintenance Data: For dry-erase wall coverings to include in maintenance manuals.

1.7 QUALITY ASSURANCE
   A. Source Limitations: Obtain visual display surfaces from single source from single manufacturer.
   B. Surface-Burning Characteristics: As determined by testing identical products according to ASTM E 84 by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
      1. Flame-Spread Index: 25 or less.
      2. Smoke-Developed Index: 450 or less.
   C. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for installation.
      1. Build mockup of typical visual display surfaces.
      2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
      3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.8 DELIVERY, STORAGE, AND HANDLING
   A. Deliver factory-built visual display surfaces, including factory-applied trim, completely assembled in one piece without joints, where possible. If dimensions exceed maximum manufactured panel size, provide two or more pieces of equal length as acceptable to Architect. When overall dimensions require delivery in separate units, prefit components at the factory, disassemble for delivery, and make final joints at the site.
   B. Store visual display surfaces vertically with packing materials between each unit.

1.9 PROJECT CONDITIONS
   A. Environmental Limitations: Do not deliver or install visual display surfaces until spaces are enclosed and weathertight, wet work in spaces is complete and dry, work above ceilings is complete, and temporary HVAC system is operating and maintaining ambient temperature and humidity conditions at occupancy levels during the remainder of the construction period.
   B. Field Measurements: Verify actual dimensions of construction contiguous with visual display surfaces by field measurements before fabrication.
1. Allow for trimming and fitting where taking field measurements before fabrication might delay the Work.

1.10 WARRANTY

A. General Warranty: The special porcelain enamel markerboard warranty specified in this Article shall not deprive the Owner of other rights the Owner 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. Special Warranty for Porcelain-Enamel Face Sheets: Manufacturer's standard form in which manufacturer agrees to repair or replace porcelain-enamel face sheets that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:
   a. Surfaces lose original writing and erasing qualities.
   b. Surfaces exhibit crazing, cracking, or flaking.

2. Warranty Period: 50 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MATERIALS, GENERAL

A. Porcelain-Enamel Face Sheet: Manufacturer's standard steel sheet with porcelain-enamel coating fused to steel; uncoated thickness indicated.
   1. Gloss Finish: Gloss as indicated; dry-erase markers wipe clean with dry cloth or standard eraser.

B. Plastic-Impregnated Cork Sheet: Seamless, homogeneous, self-sealing sheet consisting of granulated cork, linseed oil, resin binders, and dry pigments that are mixed and calendared onto fabric backing; with washable vinyl finish and integral color throughout with surface-burning characteristics indicated.

C. Particleboard: ANSI A208.1, Grade M-1, made with binder containing no urea formaldehyde.

D. Extruded Aluminum: ASTM B 221, Alloy 6063.

2.2 MARKERBOARD AND TACKBOARD MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
   1. AARCO Products, Inc.
   2. American Visual Display Products
   3. Best-Rite Manufacturing
   5. Ghent Manufacturing, Inc.
   6. Newline Products Inc.
7. Platinum Visual Systems
8. PolyVision Corporation
9. Tri-Best Visual Display Products

2.3 MARKERBOARD ASSEMBLIES

A. Porcelain-Enamel Markerboards: Balanced, high-pressure, factory-laminated markerboard assembly of three-ply construction consisting of backing sheet, core material, and porcelain-enamel face sheet with low-gloss finish.
1. Particleboard Core: 3/8 inch thick; with 0.005-inch thick, aluminum backing.
2. Laminating Adhesive: Manufacturer's standard, moisture-resistant thermoplastic type.
B. Markerboards: Factory assembled
2. Corners: Square.
3. Length: As indicated on Drawings.
4. Height: 4 feet, unless noted otherwise.
5. Mounting: Wall.
6. Mounting Height: As indicated on Drawings.
7. Factory-applied aluminum trim.

2.4 TACKBOARD ASSEMBLIES

A. Plastic-Impregnated-Cork Tackboard: 1/4-inch thick, plastic-impregnated cork sheet factory laminated to 1/4-inch thick particleboard backing.
B. Tackboards: Factory assembled.
1. Color: As selected by Architect from full range of industry colors.
2. Corners: Square.
3. Length: As indicated on Drawings.
4. Height: 4 feet, unless noted otherwise.
5. Mounting: Wall.
6. Mounting Height: As indicated on Drawings.
7. Edges: Concealed by trim.

2.5 MARKERBOARD AND TACKBOARD ACCESSORIES

A. Aluminum Frames and Trim: Fabricated from not less than 0.062-inch thick, extruded aluminum; standard size and shape.
2. Finish: Clear anodized.
B. Markertray: Manufacturer's standard, continuous.
1. Box Type: Extruded aluminum with slanted front, grooved tray, and cast-aluminum end closures.
2.6 DRY ERASE WALL COVERINGS

A. Dry Erase Wall Covering: Intended for use with dry-erase markers and consisting of high-gloss polyester film with adhesive backing.
   1. Basis of Design: 3M; DI-NOC Whiteboard Finish WH-111
   2. Koroseal; Walltalkers Erase Rite

B. Primer/Sealer: Mildew-resistant primer/sealer as recommended in writing by dry-erase wall covering manufacturer for intended substrate.

2.7 FABRICATION

A. Porcelain-Enamel Visual Display Assemblies: Laminate porcelain-enamel face sheet and backing sheet to core material under heat and pressure with manufacturer's standard flexible, waterproof adhesive.

B. Assembly: Provide factory-assembled markerboard and tackboard units, unless field-assembled units are required.

C. Factory-Assembled Visual Display Units: Coordinate factory-assembled units with trim and accessories indicated. Join parts with a neat, precision fit.
   1. Make joints only where total length exceeds maximum manufactured length. Fabricate with minimum number of joints, balanced around center of board, as acceptable to Architect.
   2. Provide manufacturer's standard vertical-joint system between abutting sections of markerboards.
   3. Provide manufacturer's standard mullion trim at joints between markerboards and tackboards of combination units.
   4. Where size of visual display boards or other conditions require support in addition to normal trim, provide structural supports or modify trim as indicated or as selected by Architect from manufacturer's standard structural support accessories to suit conditions indicated.

2.8 GENERAL FINISH REQUIREMENTS

A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

C. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.9 ALUMINUM FINISHES

A. Class II, Clear Anodic Finish: AA-M12C22A31 (Mechanical Finish: nonspecular as
fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class II, clear coating 0.010 mm or thicker) complying with AAMA 607.1.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Installer present, for compliance with requirements for installation tolerances, surface conditions of wall, and other conditions affecting performance of the Work.

B. Examine walls and partitions for proper preparation and backing for visual display surfaces.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Comply with manufacturer's written instructions for surface preparation.

B. Clean substrates of substances that could impair the performance of and affect the smooth, finished surfaces of visual display boards, including dirt, mold, and mildew.

C. Prepare surfaces to achieve a smooth, dry, clean surface free of flaking, unsound coatings, cracks, defects, projections, depressions, and substances that will impair bond between visual display surfaces and wall surfaces.

1. Prime wall surfaces indicated to receive tackable wall covering panels and dry-erase wall covering and as recommended in writing by primer/sealer manufacturer and wall covering manufacturer.

3.3 INSTALLATION, GENERAL

A. General: Install visual display surfaces in locations and at mounting heights indicated on Drawings. Keep perimeter lines straight, level, and plumb. Provide grounds, clips, backing materials, adhesives, brackets, anchors, trim, and accessories necessary for complete installation.

3.4 INSTALLATION OF VISUAL DISPLAY BOARDS AND ASSEMBLIES

A. Visual Display Boards: Attach concealed clips, hangers, and grounds to wall surfaces and to visual display boards with fasteners at not more than 16 inches o.c. Secure both top and bottom of boards to walls.

1. Aluminum Trim: Attach trim over edges of visual display boards and conceal grounds and clips. Attach trim to boards with fasteners at not more than 24 inches o.c.
   a. Attach markertrays to boards with fasteners at not more than 12 inches o.c.
3.5 INSTALLATION OF DRY ERASE WALL COVERING

A. Dry Erase Wall Covering: Comply with dry erase wall covering manufacturers' written installation instructions.

1. Install seams horizontal and level, with lowest seam 24 inches above finished floor. Railroad wall covering (reverse roll direction) to ensure color matching.
2. Double cut seams, with no gaps or overlaps. Remove air bubbles, wrinkles, blisters, and other defects.
3. After installation, clean dry erase wall covering according to manufacturer's written instructions. Remove excess adhesive at finished seams, perimeter edges, and adjacent surfaces.

3.6 CLEANING AND PROTECTION

A. Clean visual display surfaces according to manufacturer's written instructions. Attach one cleaning label to visual display surface in each room.

B. Touch up factory-applied finishes to restore damaged or soiled areas.

C. Cover and protect visual display surfaces after installation and cleaning.

END OF SECTION 101100
PART 1 - GENERAL

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

1.2 SUMMARY
A. Section Includes:
   1. Corner guards.
   2. Impact-resistant wall coverings.
B. Related Sections:
   1. Section 087100 "Door Hardware" for metal armor, kick, mop, and push plates.

1.3 ACTION SUBMITTALS
A. Product Data: Include construction details, material descriptions, impact strength, dimensions of individual components and profiles, and finishes for each impact-resistant wall protection unit.
   1. For adhesives, documentation including printed statement of VOC content.
B. Shop Drawings: For each impact-resistant wall protection unit showing locations and extent. Include sections, details, and attachments to other work.
C. Samples for Initial Selection: For each type of impact-resistant wall protection unit indicated.
D. Samples for Verification: For each type of exposed finish required, prepared on Samples of size indicated below.
   1. Corner Guards: 12 inches long. Include examples of joinery, corners, and field splices.
   2. Impact-Resistant Wall Covering: 6 by 6 inches square.

1.4 INFORMATIONAL SUBMITTALS
A. Material Certificates: For each impact-resistant plastic material, from manufacturer.
B. Material Test Reports: For each impact-resistant plastic material.
C. Warranty: Sample of special warranty.

1.5 CLOSEOUT SUBMITTALS
A. Maintenance Data: For each impact-resistant wall protection unit to include in maintenance manuals.
   1. Include recommended methods and frequency of maintenance for maintaining optimum condition of plastic covers under anticipated traffic and use conditions. Include precautions against using cleaning materials and methods that may be detrimental to plastic finishes and performance.
1.6 QUALITY ASSURANCE

A. Installer Qualifications: An employer of workers trained and approved by manufacturer.

B. Source Limitations: Obtain impact-resistant wall protection units from single source from single manufacturer.

C. Product Options: Drawings indicate size, profiles, and dimensional requirements of impact-resistant wall protection units and are based on the specific system indicated. Refer to Section 014000 "Quality Requirements."

1. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect’s approval. If modifications are proposed, submit comprehensive explanatory data to Architect for review.

D. Surface-Burning Characteristics: Provide impact-resistant, plastic wall protection units with surface-burning characteristics as determined by testing identical products per ASTM E 84, NFPA 255, or UL 723 by UL or another qualified testing agency.


F. Preinstallation Conference: Conduct conference at Project site.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Store impact-resistant wall protection units in original undamaged packages and containers inside well-ventilated area protected from weather, moisture, soiling, extreme temperatures, and humidity.

1. Maintain room temperature within storage area at not less than 70 deg F during the period plastic materials are stored.

2. Keep plastic sheet material out of direct sunlight.

1.8 PROJECT CONDITIONS

A. Environmental Limitations: Do not deliver or install impact-resistant wall protection units until building is enclosed and weatherproof, wet work is complete and dry, and HVAC system is operating and maintaining temperature at 70 deg F for not less than 72 hours before beginning installation and for the remainder of the construction period.

1.9 WARRANTY

A. Special Warranty: Manufacturer’s standard form in which manufacturer agrees to repair or replace components of impact-resistant wall protection units that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

   a. Structural failures.

   b. Deterioration of plastic and other materials beyond normal use.

2. Warranty Period: Five years from date of Substantial Completion.
PART 2 - PRODUCTS

2.1 MATERIALS

A. PVC Plastic: ASTM D 1784, Class 1, textured, chemical- and stain-resistant, high-impact-resistant PVC or acrylic-modified vinyl plastic with integral color throughout; sheet material, thickness as indicated.
   1. Impact Resistance: Minimum 25.4 ft-lbf/in. of notch when tested according to ASTM D 256, Test Method A.
   2. Chemical and Stain Resistance: Tested according to ASTM D 543 or ASTM D 1308.
   3. Self-extinguishing when tested according to ASTM D 635.
   4. Flame-Spread Index: 25 or less.
   5. Smoke-Developed Index: 450 or less.

B. Stainless-Steel Sheet: ASTM A 240/A 240M.

C. Fasteners: Aluminum, nonmagnetic stainless-steel, or other noncorrosive metal screws, bolts, and other fasteners compatible with items being fastened. Use security-type fasteners where exposed to view.

2.2 CORNER GUARDS

A. Surface Mounted, Metal Corner Guards CG: Fabricated from one piece, formed or extruded metal with formed edges; with 90- or 135-degree turn to match wall condition.
   1. Basis of Design Product: Subject to compliance with requirements. Flush Mount Stainless Steel Corner Guard model “SSEW-FM” by Inpro Corporation or comparable product by one of the following:
      a. American Floor Products Co., Inc.
      b. Arden Architectural Specialties, Inc.
      c. Bale, Inc.
      d. Boston Retail Products,
      e. Construction Specialties, Inc.
      f. IPC Door and Wall Protection Systems; Division of InPro Corporation.
      g. Inpro Corporation.
      h. Korogard Wall Protection Systems; a division of RJF International Corporation.
      i. Pawling Corporation.
      j. Tepromark International, Inc.
      k. WallGuard.com.
   2. Material: Stainless steel, Type 304.
      a. Thickness: Minimum 0.0500 inch.
      b. Extrusion Length: Minimum 10’-0”.
      c. Finish: Directional satin, No. 4.
   3. Wing Size: Nominal 2 inch by 2 inch.

2.3 IMPACT-RESISTANT WALL COVERINGS

A. Impact-Resistant Sheet Wall Covering: Fabricated from plastic sheet wall-covering material.
1. Manufacturers: Subject to compliance with requirements, provide Basis of Design as indicated on Room Finish Legend or Architect approved products—by one of the following:
   a. Construction Specialties, Inc.
   b. IPC Door and Wall Protection Systems; Division of InPro Corporation.
   c. Korogard Wall Protection Systems; a division of RJF International Corporation.
   d. Koroseal Interior Products, LLC; Korogard Sheets (Basis of Design)
   e. Pawling Corporation.
   f. Tepromark International, Inc.

2. Size: 48 by 96 inches for sheet 4 feet by 8 feet standard sheet size.

3. Sheet Thickness: 0.040 inch _060 inch.


B. Primer: Manufacturer’s standard.

C. Adhesive: Manufacturer’s standard, complying with VOC limitations.

D. Sealant: Manufacturer's standard, color matched to sheet wall covering.

2.3 IMPACT-RESISTANT WALL COVERINGS WITH DIGITAL GRAPHICS


1. Manufacturers: Subject to compliance with requirements, provide Digital Labs, “Fusion Protective Wallcovering” by Koroseal Interior Products, LLC or Architect approved comparable products by one of the following:
   a. Construction Specialties, Inc.
   b. IPC Door and Wall Protection Systems; Division of InPro Corporation.
   c. Korogard Wall Protection Systems; a division of RJF International Corporation.
   d. Koroseal Interior Products, LLC (Basis of Design)
   e. Pawling Corporation.
   f. Tepromark International, Inc.

2. Size: As indicated on Room Finish Legend.

3. Sheet Thickness: 0.040 inch.

4. Texture: As indicated by manufacturer’s designation.


B. Trim and Joint Moldings: Extruded rigid plastic that matches sheet wall covering color.

1. Inside and outside corners, wainscot cap.

C. Primer: Manufacturer’s standard.

D. Adhesive: Manufacturer’s standard, complying with VOC limitations.

E. Sealant: Manufacturer’s standard, color matched to sheet wall covering.

2.4 FABRICATION

A. Fabricate impact-resistant wall protection units to comply with requirements indicated for design, dimensions, and member sizes, including thicknesses of components.
B. Assemble components in factory to greatest extent possible to minimize field assembly. Disassemble only as necessary for shipping and handling.

C. Fabricate components with tight seams and joints with exposed edges rolled. Provide surfaces free of wrinkles, chips, dents, uneven coloration, and other imperfections. Fabricate members and fittings to produce flush, smooth, and rigid hairline joints.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and wall areas, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work.

B. Examine walls to which impact-resistant wall protection will be attached for blocking, grounds, and other solid backing that have been installed in the locations required for secure attachment of support fasteners.

1. For impact-resistant wall protection units attached with adhesive or foam tape, verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Complete finishing operations, including painting, before installing impact-resistant wall protection system components.

B. Before installation, clean substrate to remove dust, debris, and loose particles.

C. Prime gypsum wallboard scheduled to receive impact resistant wall covering in accordance with manufacturer’s written instructions.

3.3 INSTALLATION

A. General: Install impact-resistant wall protection units level, plumb, and true to line without distortions. Do not use materials with chips, cracks, voids, stains, or other defects that might be visible in the finished Work.

1. Install impact-resistant wall protection units in locations and at mounting heights indicated on Drawings.

2. Provide splices, mounting hardware, anchors, and other accessories required for a complete installation.
   a. Provide anchoring devices to withstand imposed loads.
   b. Adjust end and top caps as required to ensure tight seams.

B. Impact-Resistant Wall Covering: Comply with manufacturer’s installation instructions. Provide 1/16-inch gap at butt joints. Seal. Install top and edge moldings and corners as required for a complete installation.

3.4 CLEANING

A. Immediately after completion of installation, clean plastic covers and accessories using a standard, ammonia-based, household cleaning agent.
B. Remove excess adhesive using methods and materials recommended in writing by manufacturer.

END OF SECTION 102600
This page intentionally left blank.
This page intentionally left blank.
SECTION 114000 - FOODSERVICE EQUIPMENT

PART 1 - GENERAL

1.1 SUMMARY
   A. Section includes commercial kitchen foodservice equipment.

1.2 ACTION SUBMITTALS
   A. Product Data: For each type of product.
   B. Shop Drawings: For fabricated equipment. Include plans, elevations, sections, roughing-in dimensions, fabrication details, utility service requirements, and attachments to other work.
   C. Samples for Initial Selection: For units with factory-applied color finishes.

1.3 CLOSEOUT SUBMITTALS
   A. Operation and maintenance data.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS
   A. NSF Standards: Provide equipment that bears NSF Certification Mark or UL Classification Mark certifying compliance with applicable NSF standards.
   B. UL Certification: Provide electric and fuel-burning equipment and components that are evaluated by UL for fire, electric shock, and casualty hazards according to applicable safety standards, and that are UL certified for compliance and labeled for intended use.

2.2 FOODSERVICE EQUIPMENT
   A. Refer to Commercial Kitchen Foodservice Equipment List in Drawings.
PART 3 - EXECUTION

3.1 INSTALLATION

A. Install foodservice equipment level and plumb, according to manufacturer's written instructions.
   1. Connect equipment to utilities.
   2. Provide cutouts in equipment, neatly formed, where required to run service lines through equipment to make final connections.

B. Complete equipment assembly where field assembly is required.

C. Install equipment with access and maintenance clearances that comply with manufacturer's written installation instructions and with requirements of authorities having jurisdiction.

3.2 CLEANING AND PROTECTING

A. After completing installation of equipment, repair damaged finishes.

B. Clean and adjust equipment as required to produce ready-for-use condition.

C. Protect equipment from damage during remainder of the construction period.

END OF SECTION 114000
The planting plan includes the following instructions:

- **General Instructions**
  - Note: Notify landscape architect 48 hours prior to planting when beds are laid out to confirm location in the field.
  - Note: Planting the outer edges of each planting group following the bed outline according to the plan.
  - Note: The planting layout within planting beds should be shifted to minimize conflicts with existing trees.
  - Note: Planting shall take precedence over planting list quantities.
  - Note: Plantings to remain as noted.
  - Note: The planting schedule—contractor shall satisfy all measurements indicated.

- **Botanical Name**
  - Carex Flacca 'Blue Minuteman Platanin'
  - Heuchera Villosa 'Nanum'
  - Astilbe Japonica
  - Muhenbergia Capillaris
  - Sasanqua Camellia
  - Japanese Lily
  - Elginia Hollandi
  - Dr. Merrill Magnolia
  - Catalpa Bignonioides
  - Osage Orange
  - Quercus Bicolor
  - Quercus Viminalis
  - Dr. Merrill Magnolia
  - Magnolia Grandiflora
  - Distylium 'Vintage Jade'
  - Abelia X Grandiflora
  - Japanese Holly
  - Japanese Boxwood
  - Japanese Arborvitae
  - Japanese Cypress
  - Japanese Arborvitae
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Maple
  - Japanese Mapl
IRRIGATION LEGEND

- **Drip Irrigation Areas**
- **Timeclock/Controller Locations**
- 4" Schedule 40 PVC Sleeves
- **Rain Sensor**

**General:** The irrigation plan shown is to show the required method of coverage. It is the contractor's responsibility to provide a sound, single source irrigation system capable of delivering water within the manufacturer's performance specifications. Substantial changes to plan shall be approved prior to installation.

1. Working pressure based on 50-55 PSI. Notify the architect of any deviations.
2. Wire in main line ditch only - wire to be 14 GA.
4. Time clock to be hardwired to the power supply. Power supply will be provided to within ten feet of the time clock. Coordinate time clock location with owner.
5. Contractor to supply sleeving as required.
6. Provide drip irrigation for all shrub and groundcover applications as noted on plans.
7. Contractor shall provide an as built drawing with operation manual bound in an easy to use binder. Demonstrate irrigation system use to owner and the landscape architect at project completion.
8. The finished irrigation system shall have completely separate turf and shrub zones.
9. Always direct irrigation away from the building and signage.
10. Contractor to submit shop drawings of irrigation system for approval prior to construction.
11. Irrigation sleeves shall be 4 inches diameter. Provide minimum 18 inches cover. Extend 12 inches beyond edge of walk and cap ends. Provide flag indicating location and update contractor record set with final installed location.
<table>
<thead>
<tr>
<th>MATERIAL CODE</th>
<th>DESCRIPTION</th>
<th>MANUFACTURER</th>
<th>PRODUCT INFORMATION</th>
<th>STYLE/PATTERN</th>
<th>COLOR</th>
<th>DEC</th>
<th>INSTALLATION NOTES</th>
<th>IMPLANTATION NOTES</th>
<th>INSTALLATION DATE</th>
<th>NOTES</th>
<th>SCALE</th>
<th>DESIGN</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-720</td>
<td>Room Finish</td>
<td>Alliance Health</td>
<td>Child Crisis Center</td>
<td>A-720</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## ROOM FINISH SCHEDULE

<table>
<thead>
<tr>
<th>ROOM</th>
<th>WALL FINISH</th>
<th>R亚运</th>
<th>P. COMBS</th>
<th>CBR FIN</th>
<th>LOCATIONS</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>02</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>03</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>04</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>05</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>06</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>07</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>08</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>09</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name (First and Last)</td>
<td>Company/Title</td>
<td>Email Address</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------</td>
<td>----------------------------------------------------</td>
<td>--------------------------------------------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gerry Harden</td>
<td>Progressive Contracting Co.</td>
<td><a href="mailto:gharden@progressivecci.com">gharden@progressivecci.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Whiting-Turner</td>
<td><a href="mailto:david.mazzawi@whiting-turner.com">david.mazzawi@whiting-turner.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Custom Image Pressure Wash</td>
<td><a href="mailto:aray201036@gmail.com">aray201036@gmail.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Carolina Interiors</td>
<td><a href="mailto:glewitzci@gmail.com">glewitzci@gmail.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Moonlite Electric</td>
<td><a href="mailto:adeuel@moonliteconstruction.com">adeuel@moonliteconstruction.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>David Mazzavi</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Antwaun Ray</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gary Lewis</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aaron Deuel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name (First and Last)</td>
<td>Company/Title</td>
<td>Email Address</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------</td>
<td>---------------</td>
<td>---------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steven Kitzic</td>
<td>MTS Services</td>
<td><a href="mailto:skitzic@mts-services.com">skitzic@mts-services.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>James Macdonell</td>
<td>IDIAS Contracting, LLC</td>
<td><a href="mailto:jmacdonell@idiascontracting.com">jmacdonell@idiascontracting.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jeffrey Fuller</td>
<td>Monteith Construction</td>
<td><a href="mailto:bstamps@monteithco.com">bstamps@monteithco.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tamaia Casuso/Santiago Chavez</td>
<td>ENR Services Inc.</td>
<td><a href="mailto:emrservices19@gmail.com">emrservices19@gmail.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lauren J Farrell</td>
<td>Modern Mech Hvac</td>
<td><a href="mailto:lfarrell@photoflame.com">lfarrell@photoflame.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chris Ramsey</td>
<td>Modern Mech Hvac</td>
<td><a href="mailto:cramsey@modernmechhvac.com">cramsey@modernmechhvac.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tim O'Connell</td>
<td>NEO Corporation</td>
<td><a href="mailto:toconnell@neocorporation.com">toconnell@neocorporation.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Olis Jones</td>
<td>MTS Services</td>
<td><a href="mailto:ejones33@pmi.e.jones">ejones33@pmi.e.jones</a>@mts-services.com</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name (First and Last)</td>
<td>Company/Title</td>
<td>Email Address</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------</td>
<td>---------------</td>
<td>---------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scott Dawson, Sr.</td>
<td>Engineered Cast Company</td>
<td><a href="mailto:scdawsonsr@engcast.com">scdawsonsr@engcast.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Josh Hyler</td>
<td>H.M. Kern Corporation</td>
<td><a href="mailto:jhyler@hmkern.com">jhyler@hmkern.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gray Talley</td>
<td>SHECO</td>
<td><a href="mailto:gtalley@shelcolc.com">gtalley@shelcolc.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paul Parker</td>
<td>Harrod &amp; Assoc. Constructors, Inc</td>
<td><a href="mailto:estimating@harrodandassoc.com">estimating@harrodandassoc.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>David Wheeler</td>
<td>Sears Contract</td>
<td><a href="mailto:dwheeler@searcontract.com">dwheeler@searcontract.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frederick Fowler</td>
<td>Bonitz</td>
<td><a href="mailto:frederickfowler@bonitz.com">frederickfowler@bonitz.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jami Choudhury</td>
<td>BENCHMARK NETWORK</td>
<td><a href="mailto:jchoudhury@benchmarknc.com">jchoudhury@benchmarknc.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name (First and Last)</td>
<td>Company/Title</td>
<td>Email Address</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------</td>
<td>---------------</td>
<td>---------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Farrin Dunn</td>
<td>Jed Sprinkler</td>
<td><a href="mailto:Farrin@JDSprinkler.com">Farrin@JDSprinkler.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Michael Walton</td>
<td>LJ Electrical Co.</td>
<td><a href="mailto:mike@ljelectricalcompany.com">mike@ljelectricalcompany.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sara Taylor</td>
<td>T.A. Loving</td>
<td><a href="mailto:staylor@ta-loving.com">staylor@ta-loving.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yash Bhavasar</td>
<td>J.M. Thompson</td>
<td><a href="mailto:yash@jmthompson.com">yash@jmthompson.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Randy Brack</td>
<td>Floorchem</td>
<td><a href="mailto:floorchem@aol.com">floorchem@aol.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rob Bromley</td>
<td>Riley Cont</td>
<td><a href="mailto:RBromley@RileyContractors.com">RBromley@RileyContractors.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Justin Jackson</td>
<td>CG Builders</td>
<td><a href="mailto:Justm@ggbuildernc.com">Justm@ggbuildernc.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brian Ashburn</td>
<td>Danco Builders Inc</td>
<td><a href="mailto:bashburn@DancoBuildersInc.com">bashburn@DancoBuildersInc.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Michael Hurt</td>
<td>Danco Builders Inc</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Joe Wynn</td>
<td>J.J. Spradley PM End</td>
<td><a href="mailto:jw3116@aol.com">jw3116@aol.com</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nathan Gonzalez</td>
<td>Traco Drywall</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Alliance Child Crisis Center  
Phases D Renovation - Pre-Bid Conference  
Sign-In Sheet  
Location: 400 West Ransom St, Fuquay-Varina, NC 27526  
Date: September 22, 2020  
Time: 10:00am
### List of Bidder Questions Addressed by Addendum

<table>
<thead>
<tr>
<th>Received</th>
<th>Question</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>09/21/20</td>
<td>Instructions to Bidders Item 8.4: Item 8.4 Professional Liability to be $5M. This amount seems to be in excess due to us only being the constructor and not the designer. Can this amount be reduced to $2M or this requirement be deleted.</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/22/20</td>
<td>How many Category 6 cables will the awarded contractor be required to install to each of the triangle data symbols?</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/22/20</td>
<td>Print E-201 General Note 4 states communications racks by others. Please can you confirm is the awarded contractor is responsible for: - Ladder Rack with the room? - Power strips? - Horizontal wire management panels?</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/23/20</td>
<td>G-001 Sheet Index: On the Architectural List the following drawings were not included in the bid package A-101 and A-151.</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/23/20</td>
<td>A-101D Note 29 - This note states to replace loading dock bumpers - can you provide specifications for these new bumpers.</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/23/20</td>
<td>Is this a plenum or riser environment?</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/23/20</td>
<td>Will there be a cable tray provided?</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/23/20</td>
<td>Do you have specs for a telecom room layout?</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/23/20</td>
<td>The advertisement for bids states that (1) original hard copy and (1) flash drive be submitted by the bid due date and time. Due to the fact that many quotes (especially those from plumbing, mechanical and electrical subcontractors) will be received during the last few minutes leading up to the bid close time of 3pm, would the owner allow the bidding GC's to submit the flash drive following the bid (e.g. within 24-72 hours)?</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/23/20</td>
<td>Could you please direct us on how best to coordinate a site visit? Thank you!</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/24/20</td>
<td>Specification 15000-7: 3.5G - Site enclosure fence and sheet C-001 Note 5 states - the contractor is to take over the rental cost and responsibilities of the construction fence and gates. Can you please provide the current rental and dis-assemble cost for this so we can incorporate it into our bid cost?</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/24/20</td>
<td>Can you please clarify the sales tax procedure for bidding this project? The base bid itself should not include sales tax, correct?</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/24/20</td>
<td>Please confirm #8.5 &quot;Contractors Pollution Insurance&quot; is in fact required and is there a time of continuation for this?</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/24/20</td>
<td>Roller Shades: The drawings do not call out locations for the motorized roller shades. Are all exterior windows to receive motorized roller shades?</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/24/20</td>
<td>Roller Shades: I am not seeing any wiring called out on the electrical drawings for the motorized shades. Could you provide more information on the motorization requirements needed for the project?</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/24/20</td>
<td>Roller Shades: Specs are calling for the motorized roller shades to be mounted into a recessed shade pocket. I was not finding anything in the detail drawings showing the roller shade mount. Please confirm if the roller shades are to be mounted into the ceiling with a shade pocket?</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/24/20</td>
<td>Can you provide location of visual display boards.</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/25/20</td>
<td>Spec 064023-Pg5; 2.4-A call for White Maple Qtr sawn; A720-Div 6 WWP calls Select White Birch. Please clarify which is correct.</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/25/20</td>
<td>Note 5 on C-001 states that the GC will take over the responsibility for the installed construction fence at the start of phase D. Please provide the contact information for the current fence contractor that the owner is renting through.</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/25/20</td>
<td>On L131/3 and sheet L501/4, it shows deduct alternate #1 as being: PIP rubber type I in spinner fall zone only. PIP rubber type 2 replaces type 1 in all other locations where type 1 is shown. When referencing the alternate spec section, alternate #1 is listed as something different. Please clarify what number this PIP rubber alternate shall be listed as.</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/25/20</td>
<td>Please advise what note 10 on A-100D is supposed to represent.</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/25/20</td>
<td>The partition types under F0N0 on sheet A-002 indicate metal studs; however the detail shows furring channels. Please clarify the intent of these wall types.</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/25/20</td>
<td>Note 29 Indicates loading dock bumpers to be removed and replaced. No specs to show what to replace the bumpers with. Please provide specification section or product information for equipment bumpers.</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/25/20</td>
<td>Spec section 105126 calls for solid-phenolic lockers (loc-1 &amp; loc-2) to be provided. There are notes in the drawing stating lockers are provided by owner. Please confirm that the owner is responsible for furnishing and installing all lockers as part of this project.</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>Date</td>
<td>Question</td>
<td>Response</td>
</tr>
<tr>
<td>------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>09/25/20</td>
<td>On L131/2, there is a note that references, “approximate location of concrete sign base (not in survey)”. Is there anything required to be done at this location as part of this scope of work? For example is this to be demoed or is there new work to be performed here?</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/25/20</td>
<td>On L131 there is a note that states, “Facility signage integrated into seat wall by others”. Please advise if the signage is to be furnished and installed by owner or is part of the Phase D scope of work?</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/25/20</td>
<td>Room 109 Multipurpose room has multiple floor finishes. Please provide finish floor grid for this room.</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/25/20</td>
<td>Is there going to be a new pad mounted power transformer installed by the power company or are we to connect to existing elevated pole transformers via new conduit and weatherheads? See riser diagram E-001 Note 1</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/25/20</td>
<td>If power company does supply pad mount transformer are we responsible for the concrete pad?</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/25/20</td>
<td>If power company is supplying the transformer, where will it be located?</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/25/20</td>
<td>Note 5/C-101D mentions, “cracks in retaining walls to be repaired with ETI-SLV structural epoxy or equivalent”. Please provide an allowance value (S) or assumed LF that will be required for having to inject the structural epoxy in cracks. Currently the amount/value is unquantifiable to the bidders.</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/25/20</td>
<td>Note 15 on A-102D indicates to provide fire-rated CMU (or applicable) …..plans. There does not appear to be a partition type M. Please confirm there are no interior CMU partitions.</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/25/20</td>
<td>Details 1/A-152D and B4/A-501 indicate Ref to Struct. for the expansion joint material. Please advise where this reference can be found</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/25/20</td>
<td>Section A1 at column line V references blow-up detail 1/F-YYY. Please advise where this detail is found.</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/25/20</td>
<td>Detail Section A1/A-511 references to structural for connections at clerestory. Section 3/S-302 does not correspond the architectural detail. Please advise which is correct.</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/25/20</td>
<td>Specification 2.3/102600-4 calls for use of end wall guards and specification 2.4/102600-4 calls for use of corner guards. Please clarify which material is to be used at GWB corners.</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/25/20</td>
<td>Specification 2.5/102600-4 calls for handrails to be used. Please provide locations were handrails will be installed.</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/25/20</td>
<td>There are two specifications for 102600, which one is correct.</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/25/20</td>
<td>Detail A2/A152D shows new rigid insulation, cover board and membrane at the RTU curb. Please provide the extent of the work, and is the walkway tile existing or new construction?</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/25/20</td>
<td>Please provide information on the note number 10 in A102D page.</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/27/20</td>
<td>The standard tile size for PTW 2 - PTW-10 is 3x12 (A720) but the elevations (A-403) show what appears to be a pattern of 3x4 tiles. Can the pattern for these tile be clarified?</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/27/20</td>
<td>Registration 104 is scheduled (A721) for Sheet Vinyl but shown as Carpet on the finish plan (A-722). Which is the desired finish?</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/27/20</td>
<td>Secure Wait 186 is scheduled for Carpet but shown as sheet vinyl on the finish plan. Which is the desired finish?</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/27/20</td>
<td>Secure Vestibule 134 is scheduled for carpet but shown on the finish plan as sheet vinyl. Which is the desired finish?</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/27/20</td>
<td>Quiet Room 174 is scheduled for Sheet Vinyl (RSF-5) but is not hatched with a floor finish product pattern. Which is the desired finish?</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/27/20</td>
<td>Staff Toilet 179 is scheduled for Epoxy (EPX-1) floors but is hatched with the sheet vinyl (RSF-5) pattern on the finish plan. Which is the desired finish?</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/27/20</td>
<td>Lobby Waiting 101 is scheduled for Carpet but is hatched on the finish plan as sheet vinyl (RSF-5). Which is the desired finish?</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/27/20</td>
<td>Patient toilets 102 and 103 are scheduled for sheet vinyl but are not hatched with a floor product pattern on the finish plan. Which is the desired finish? See question 9</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/27/20</td>
<td>Patient toilets 102 and 103 are not scheduled for wall tile but 102 is used as a “typical” toilet (B2/A-402) which clearly shows wall tile in it’s elevations. Please confirm wall tile is desire int rms 102 &amp; 103.</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/27/20</td>
<td>The extent of wall tile behind the vanity and mirror in the toilets is unclear. See attached PDF. Can the tile on this wall be clarified?</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/27/20</td>
<td>Please clarify the extents of the wall tile on the mirror and sink wall of all toilet types.</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
<tr>
<td>09/29/20</td>
<td>Can you provide the wall height of the FRP panels. Drawing A-720 list the FRP to be Acrovyn panels. This manufacturer is not listed in the specifications. Can you clarify the product and manufacturer to be used.</td>
<td>Refer to the revisions in Addendum No.1</td>
</tr>
</tbody>
</table>