

ADDENDUM NO. 1 – PORTAGE PUBLIC SCHOOLS – AMBERLY BP 4: CONSTRUCTION

May 11, 2026

The following items are changes, clarifications, corrections of errors, etc., with respect to the Contract Documents previously issued. This addendum shall be a part of the Contract Documents.

Items listed below may or may not affect the cost of the Contractor's Proposal. Changes in cost shall be incorporated in the Contractor's Proposal.

ITEM No.1

DRAWING AND SPECIFICATION CHANGES AS NOTED BY TOWER PINKSTER - ATTACHED

- See Tower Pinkster write up
- Specification
 - 01 2300 - ALTERNATES
 - 06 4023 - INTERIOR ARCHITECTURAL WOODWORK
 - 06 4116 - PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS
 - 08 6270 - TUBULAR SKYLIGHTS
 - 09 7723 - FABRIC-WRAPPED PANELS
 - 09 9114 - EXTERIOR PAINTING
 - 11 4000 - FOOD SERVICE EQUIPMENT

ITEM No.2

REVISED BID CATEGORIES – ATTACHED

Items that are crossed out or in **orange** bold are changes to the original instructions to bidders.

ITEM No.2

REVISED BID FORM – ATTACHED

Items that are crossed out or in **orange** bold are changes to the original bid form.

BP 4: CONSTRUCTION ADDENDUM NO. 1

DATE OF ISSUANCE: May 5, 2026

PROJECT: Amberly Elementary School
6637 Amberly Street
Portage, Michigan 49024

OWNER: Portage Public Schools

ARCHITECT'S PROJECT NO.: 21-237.030

ORIGINAL BID ISSUE DATE: April 27, 2026

SCOPE OF WORK

This Addendum includes changes to, or clarifications of, the original Bidding Documents and any previously issued addenda, and shall be included in the Bid. All of these Addendum items form a part of the Contract Documents. The Bidder shall acknowledge receipt of this Addendum in the appropriate space provided on the Bid Form. Failure to do so may result in disqualification of the Bid.

DOCUMENTS INCLUDED IN THIS ADDENDUM

This Addendum includes **[2]** pages of text and the following documents:

- Bidding Documents: **None**
- Contract Conditions: **None**
- Specification Sections:
 - **01 2300 - ALTERNATES**
 - **06 4023 - INTERIOR ARCHITECTURAL WOODWORK**
 - **06 4116 - PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS**
 - **08 6270 - TUBULAR SKYLIGHTS**
 - **09 7723 - FABRIC-WRAPPED PANELS**
 - **09 9114 - EXTERIOR PAINTING**
 - **11 4000 - FOOD SERVICE EQUIPMENT**
- Drawings: **None.**

CHANGES TO SPECIFICATIONS

BP4A-1 Item No. S-1 - Added Alternate No. 2 – Grooved Piping

Refer to Specification(s): 01 2300 – ALTERNATES

Added Alternate No. 2, which includes information for grooved piping connections.

BP4A-1 Item No. S-2 - Reissued Spec Sections

Refer to Specification(s): 06 4023 - INTERIOR ARCHITECTURAL WOODWORK, 06 4116 - PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS

Replace former Spec Sections with new issuances due to erroneous information.

BP4A-1 Item No. S-3 - Added Spec Sections

Refer to Specification(s): 08 6270 - TUBULAR SKYLIGHTS, 09 7723 - FABRIC-WRAPPED PANELS, 09 9114 - EXTERIOR PAINTING, 11 4000 - FOOD SERVICE EQUIPMENT

Added Spec Sections that were missing from original issuance.

END OF ADDENDUM

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PROJECT NO. 21237.030
AMBERLY ELEMENTARY SCHOOL
Portage Public Schools

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SECTION 01 2300 - ALTERNATES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for alternates.

1.2 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if the Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
 - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternates into the Work. No other adjustments are made to the Contract Sum.

1.3 PROCEDURES

- A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
 - 2. The Schedule of Alternates does not specifically list all possible items affected by each alternate, review all documents for additional items.
- B. Execute accepted alternates under the same conditions as other work of the Contract.
- C. Schedule: A schedule of alternates is included at the end of this Section.

PART 2 - EXECUTION

2.1 SCHEDULE OF ALTERNATES

- A. Alternate No. 1: SNOW MELT SYSTEM
 - 1. Base Bid: No snow melt system
 - 2. Alternate: Provide snow melt system between drop-off loops and main entry on southwest side of building. Refer to M800 sheets.
- B. **Alternate No. 2: GROOVED PIPING**
 - 1. **Base Bid: Hydronic piping connections to be welded.**

2. Alternate: Provide alternate pricing for grooved piping connections. Refer to specifications below for appropriate pricing.
 - a. Grooved Mechanical-Joint Fittings and Couplings:
 - 1) Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a) Anvil International, Inc.
 - b) Victaulic Company of America.
 - c) Tyco/Grinnell.
 - 2) Joint Fittings: ASTM A 536, Grade 65-45-12 ductile iron; ASTM A 47/A 47M, Grade 32510 malleable iron; ASTM A 53/A 53M, Type F, E, or S, Grade B fabricated steel; or ASTM A 106, Grade B steel fittings with grooves or shoulders constructed to accept grooved-end couplings; with nuts, bolts, locking pin, locking toggle, or lugs to secure grooved pipe and fittings.
 - 3) Couplings: Ductile- or malleable-iron housing and synthetic rubber gasket of central cavity pressure-responsive design; with nuts, bolts, locking pin, locking toggle, or lugs to secure grooved pipe and fittings.
 - b. Grooved Joints: Assemble joints with coupling and gasket, lubricant, and bolts. Cut or roll grooves in ends of pipe based on pipe and coupling manufacturer's written instructions for pipe wall thickness. Use grooved-end fittings and rigid, grooved-end-pipe couplings.
 - c. Valve Grooved Ends: AWWA C606.
 - d. Grooved-End, Ductile-Iron Butterfly Valves:
 - 1) Anvil International, Inc.
 - 2) Tyco / Grinnell.
 - 3) Victaulic Co. of America.
 - e. Grooved-End, Ductile-Iron Swing Check Valves:
 - 1) Anvil International, Inc.
 - 2) Tyco / Grinnell.
 - 3) Victaulic Co. of America.

END OF SECTION 01 2300

SECTION 06 4023 - INTERIOR ARCHITECTURAL WOODWORK

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Interior millwork for Office and Library.
2. Compact-Laminate panels

B. Related Requirements:

1. Section 06 1000 "Rough Carpentry" for wood furring, blocking, shims, and hanging strips required for installing interior architectural woodwork that are concealed within other construction before interior architectural woodwork installation.
2. Section 06 4116 "Plastic-Laminate Faced Architectural Cabinets" for custom-fabricated cabinets to fit within and abut interior architectural woodwork.
3. Section 09 9123 "Interior Painting" for finishing of painted components of interior architectural woodwork.
4. Section 09 9300 "Staining and Transparent Finishing" for finishing of wood trim components of interior architectural woodwork.
5. Section 12 3623.13 "Plastic-Laminate-Clad Countertops."
Section 12 3661.16 "Solid Surfacing Countertops."

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: For interior architectural woodwork.

1. Fully dimensioned shop drawings showing layouts and components, including edge conditions, joinery, terminating conditions, substrate construction, cutouts and holes, and provisions for attachment to substrates. Include elevations, section details, and large-scale details. Indicate color, pattern, and finish selections.
 - a. Show locations and sizes of furring, blocking, and hanging strips, including concealed blocking and reinforcement specified in other Sections.
 - b. Show locations and sizes of cutouts and holes for plumbing fixtures, faucets and other items installed in architectural woodwork.
 - c. Show grain direction of any surface materials.

C. Samples for Verification: For the following:

1. Plastic Laminates: 8 by 10 inches, for each type, color, pattern, and surface finish required.
2. Bulletin Board Cork: 4 by 4 inches (100 by 100mm), for each type, color and pattern required.
3. Wood Trim: 1 by 2 inches, Finished in color and system specified.
4. Impact Resistant Wood Trim: Indicated thickness, at least 6 inches long including one finished end, for each type required.
5. Compact-Laminate: 4 by 4 inches (100 by 100mm), for each type, color and pattern required.

6. Painted MDF: 4 by 4 inches (100 by 100mm), for each type, color and finish required.
7. Solid Surface: 4 by 4 inches (100 by 100mm), for each type, color and pattern required.
8. Exposed Cabinet Hardware and Accessories: One full-size unit for each type and finish.

1.3 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For fabricator.
- B. Quality Standard Compliance Certificates: AWI Quality Certification Program.

1.4 QUALITY ASSURANCE

- A. Fabricator Qualifications: Shop that employs skilled workers who custom fabricate products similar to those required for this Project and whose products have a record of successful in-service performance.
 1. Shop Certification: AWI's Quality Certification Program accredited participant.
- B. Installer Qualifications: AWI's Quality Certification Program accredited participant.
- C. Source Limitations: Engage a qualified woodworking firm to assume undivided responsibility for production of interior architectural woodwork.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Do not deliver interior architectural woodwork until painting and similar finish operations that might damage woodwork have been completed in installation areas. Store woodwork in installation areas or in areas where environmental conditions comply with requirements specified in "Field Conditions" Article.

1.6 FIELD CONDITIONS

- A. Environmental Limitations: Do not deliver or install interior architectural woodwork until building is enclosed, wet-work is complete, and HVAC system is operating and maintaining temperature and relative humidity at levels planned for building occupants during the remainder of the construction period.
- B. Field Measurements: Where interior architectural woodwork is indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication, and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
 1. Locate concealed framing, blocking, and reinforcements that support woodwork by field measurements before being concealed by construction, and indicate measurements on Shop Drawings.
- C. Established Dimensions: Where interior architectural woodwork is indicated to fit to other construction, establish dimensions for areas where woodwork is to fit. Provide allowance for trimming at site, and coordinate construction to ensure that actual dimensions correspond to established dimensions.

PART 2 - PRODUCTS

2.1 INTERIOR ARCHITECTURAL WOODWORK, GENERAL

- A. Quality Standard: Unless otherwise indicated, comply with the "Architectural Woodwork Standards" for grades of interior architectural woodwork indicated for construction, finishes, installation, and other requirements.
- B. High-Pressure Decorative Laminate: NEMA LD 3, grades as indicated or if not indicated, as required by quality standard.
 - 1. Laminate Cladding for Exposed Surfaces:
 - a. Horizontal Surfaces: Grade HGS.
 - b. Vertical Surfaces: Grade VGS.
 - c. Door and Drawer Edges: PVC edge banding, thick.
 - d. Countertop Edges: PVC edge banding, 3mm thick.
 - e. Retain one edge construction from "Edges" Subparagraph below. Coordinate with standards and grade selection.
 - f. Other Edges: PVC edge banding, thick.
 - g. Pattern Direction: Horizontal, unless noted otherwise.
- C. Compact-Laminate Panel
 - 1. Compact-Laminate Panel .
 - 2. Manufacturer's standard fire-rated phenolic-core panel materials.
 - a. Core Color: manufacturer's standard, black.
- D. Bulletin Board for Exposed Surfaces:
 - 1. Comply with all manufacturer's recommendations for vertical installation; including but not limited to surface preparation, adhesives, cleaning, protection, etc.

2.2 WOOD MATERIALS

- A. Wood Products: Provide materials that comply with requirements of referenced quality standard for each type of interior architectural woodwork and quality grade specified unless otherwise indicated.
 - 1. Wood Moisture Content: 5 to 10 percent.
- B. Composite Wood and Agrifiber Products: Provide materials that comply with requirements of referenced quality standard for each type of interior architectural woodwork and quality grade specified unless otherwise indicated.
 - 1. MDF: ANSI A208.2, Grade 130.
 - 2. Particleboard: ANSI A208.1, Grade M-2.

2.3 MISCELLANEOUS MATERIALS

- A. Support Brackets: As indicated by manufacturer's designations on drawings.

- B. Reveals, Corners, and Trims: As indicated by manufacturer's designations on drawings.
- C. Grommets: As indicated by manufacturer's designations on drawings.
- D. Installation Adhesive: Product recommended by fabricator for each substrate for secure anchorage.
- E. Anchors and Fasteners: as required by fabricator to support indicated installation.
 - 1. Anchors/Fasteners to be concealed to the maximum extent possible.
 - 2. Anchors/Fasteners to be countersunk where possible.

2.4 FABRICATION

- A. Complete fabrication, including assembly, to maximum extent possible before shipment to Project site. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide allowance for scribing, trimming, and fitting.
- B. Shop cut openings, to maximum extent possible, to receive hardware, appliances, plumbing fixtures, electrical work, and similar items.
- C. Fasteners and Anchors shall be concealed to the maximum extent possible, any exposed fasteners must be limited to interior/user face of desks only.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Before installation, condition interior architectural woodwork to average prevailing humidity conditions in installation areas.
- B. Grade: Install interior architectural woodwork to comply with same grade as item to be installed.
- C. Install interior architectural woodwork level, plumb, true in line, and without distortion. Shim as required with concealed shims. Install level and plumb to a tolerance of 1/8 inch in 96 inches.
- D. Scribe and cut interior architectural woodwork to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts.
- E. Anchor interior architectural woodwork to anchors or blocking built in or directly attached to substrates. Do not use face fastening or exposed fasteners.

END OF SECTION 06 4023

SECTION 06 4116 - PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Plastic-laminate-faced architectural cabinets.
2. Wood furring, blocking, shims, and hanging strips for installing plastic-laminate-faced architectural cabinets that are not concealed within other construction.

B. Related Requirements:

1. Section 06 1000 "Rough Carpentry" for wood furring, blocking, shims, and hanging strips required for installing cabinets that are concealed within other construction before cabinet installation.
2. Section 12 3216 "Manufactured Plastic-Laminate-Faced Casework" for plastic-laminate casework of stock design.
3. Section 12 3623.13 "Plastic-Laminate-Clad Countertops."
4. Section 12 3661.16 "Solid Surface Countertops".

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: For plastic-laminate-faced architectural cabinets.

1. Include plans, elevations, sections, and attachment details.
2. Apply AWI Quality Certification Program label to Shop Drawings.

C. Samples: For each exposed product and for each color and texture specified, in manufacturer's or fabricator's standard size.

D. Samples for Verification: For the following:

1. Plastic Laminates: 8 by 10 inches, for each type, color, pattern, and surface finish required.

1.3 INFORMATIONAL SUBMITTALS

A. Qualification Data: For fabricator.

B. Qualification Data: For Installer.

C. Quality Standard Compliance Certificates: AWI Quality Certification Program.

1.4 QUALITY ASSURANCE

- A. Fabricator Qualifications: Shop that employs skilled workers who custom fabricate products similar to those required for this Project and whose products have a record of successful in-service performance.
 - 1. Shop Certification: AWI's Quality Certification Program accredited participant.
- B. Installer Qualifications: AWI's Quality Certification Program accredited participant.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Do not deliver cabinets until painting and similar finish operations that might damage architectural cabinets have been completed in installation areas. Store cabinets in installation areas or in areas where environmental conditions comply with requirements specified in "Field Conditions" Article.

1.6 FIELD CONDITIONS

- A. Environmental Limitations: Do not deliver or install cabinets until building is enclosed, wet-work is complete, and HVAC system is operating and maintaining temperature and relative humidity at levels planned for building occupants during the remainder of the construction period.
- B. Field Measurements: Where cabinets are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication, and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
 - 1. Locate concealed framing, blocking, and reinforcements that support cabinets by field measurements before being enclosed/concealed by construction, and indicate measurements on Shop Drawings.
- C. Established Dimensions: Where cabinets are indicated to fit to other construction, establish dimensions for areas where cabinets are to fit. Provide allowance for trimming at site, and coordinate construction to ensure that actual dimensions correspond to established dimensions.

PART 2 - PRODUCTS

2.1 PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS

- A. Quality Standard: Unless otherwise indicated, comply with the "Architectural Woodwork Standards" for grades of cabinets indicated for construction, finishes, installation, and other requirements.
 - 1. Provide inspections of fabrication and installation together with labels and certificates from AWI certification program indicating that woodwork complies with requirements of grades specified.
- B. Grade: Premium.
- C. Type of Construction: Frameless.
- D. Door and Drawer-Front Style: Flush overlay.

- E. High-Pressure Decorative Laminate: NEMA LD 3, grades as indicated or if not indicated, as required by quality standard.
- F. Laminate Cladding for Exposed Surfaces:
 - 1. Horizontal Surfaces: Grade HGS.
 - 2. Vertical Surfaces: Grade VGS.
 - 3. Door and Drawer Edges: PVC edge banding, 0.12 inch thick.
 - 4. Other Edges: Grade VGS.
 - 5. Pattern Direction: Vertically for drawer fronts, doors, and fixed panels.
- G. Materials for Semi-exposed Surfaces:
 - 1. Surfaces Other Than Drawer Bodies: Thermoset decorative panels.
 - 2. Surfaces Other Than Drawer Bodies: Thermoset decorative panels.
 - a. Edges of Plastic-Laminate Shelves: PVC edge banding, 0.12 inch thick, matching laminate in color, pattern, and finish.
 - b. Edges of Thermoset Decorative Panel Shelves: PVC or polyester edge banding.
 - 3. Drawer Sides and Backs: Thermoset decorative panels with PVC or polyester edge banding.
- H. Concealed Backs of Panels with Exposed Plastic-Laminate Surfaces: High-pressure decorative laminate, NEMA LD 3, Grade BKL.
- I. Drawer Construction: Fabricate with exposed fronts fastened to subfront with mounting screws from interior of body.
 - 1. Join subfronts, backs, and sides with glued dovetail joints.
- J. Colors, Patterns, and Finishes: Provide materials and products that result in colors and textures of exposed laminate surfaces complying with the following requirements:
 - 1. Plastic Laminate: As indicated by laminate manufacturer's designations on Drawings.
 - 2. PVC Edgebanding; As indicated on Drawings.

2.2 WOOD MATERIALS

- A. Wood Products: Provide materials that comply with requirements of referenced quality standard for each type of architectural cabinet and quality grade specified unless otherwise indicated.
 - 1. Wood Moisture Content: 5 to 10 percent.
 - 2. Wood Moisture Content: 5 to 10 percent.
- B. Composite Wood and Agrifiber Products: Provide materials that comply with requirements of referenced quality standard for each type of architectural cabinet and quality grade specified unless otherwise indicated.
 - 1. Medium-Density Fiberboard (MDF): ANSI A208.2, Grade 130.
 - 2. Particleboard: ANSI A208.1, Grade M-2.

3. Thermoset Decorative Panels: Particleboard or MDF finished with thermally fused, melamine-impregnated decorative paper and complying with requirements of NEMA LD 3, Grade VGL, for Test Methods 3.3, 3.4, 3.6, 3.8, and 3.10.

2.3 CABINET HARDWARE AND ACCESSORIES

- A. General: Provide cabinet hardware and accessory materials associated with architectural cabinets.
- B. Butt Hinges: 2-3/4-inch, five-knuckle steel hinges made from 0.095-inch- thick metal, and as follows:
 1. Semiconcealed Hinges for Flush Doors: BHMA A156.9, B01361.
 2. Semiconcealed Hinges for Overlay Doors: BHMA A156.9, B01521.
- C. Wire Pulls: Back mounted, solid metal, 4 inches long, 5/16 inch in diameter.
- D. Catches: Magnetic catches, BHMA A156.9, B03141.
- E. Adjustable Shelf Standards and Supports: BHMA A156.9, B04071; with shelf rests, B04081.
- F. Shelf Rests: BHMA A156.9, B04013; metal, two-pin type with shelf hold-down clip.
- G. Drawer Slides: BHMA A156.9.
 1. Grade 1 and Grade 2: Side mounted.
 2. Grade 1HD-100 and Grade 1HD-200: Side mounted; full-extension type; zinc-plated-steel ball-bearing slides.
 3. For drawers more than 3 inches high, but not more than 6 inches high and not more than 24 inches wide, provide Grade 1HD-100.
 4. For drawers more than 6 inches high or more than 24 inches wide, provide Grade 1HD-200.
- H. File Rails
- I. Door and Drawer Locks: Provide on all doors and drawers.
 1. Door Locks: BHMA A156.11, E07121.
 2. Drawer Locks: BHMA A156.11, E07041.
 3. Key all doors and drawers within a room alike and each room differently.
- J. Door and Drawer Silencers: BHMA A156.16, L03011.
- K. Grommets for Cable Passage: as indicated by manufacturer's designation on drawings.
- L. Exposed Hardware Finishes: For exposed hardware, provide finish that complies with BHMA A156.18 for BHMA finish number indicated.
 1. Satin Stainless Steel: BHMA 630.
- M. For concealed hardware, provide manufacturer's standard finish that complies with product class requirements in BHMA A156.9.

2.4 MISCELLANEOUS MATERIALS

- A. Furring, Blocking, Shims, and Hanging Strips: Softwood or hardwood lumber, kiln-dried to less than 15 percent moisture content.
- B. Anchors: Select material, type, size, and finish required for each substrate for secure anchorage. Provide metal expansion sleeves or expansion bolts for post-installed anchors. Use nonferrous-metal or hot-dip galvanized anchors and inserts at inside face of exterior walls and at floors.
- C. Adhesive for Bonding Plastic Laminate: Contact cement.

2.5 FABRICATION

- A. Complete fabrication, including assembly and hardware application, to maximum extent possible before shipment to Project site. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and fitting.
- B. Shop-cut openings to maximum extent possible to receive hardware, appliances, electrical work, and similar items. Locate openings accurately and use templates or roughing-in diagrams to produce accurately sized and shaped openings. Sand edges of cutouts to remove splinters and burrs.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Before installation, condition cabinets to humidity conditions in installation areas for not less than 72 hours.
- B. Grade: Install cabinets to comply with quality standard grade of item to be installed.
- C. Anchor cabinets to anchors or blocking built in or directly attached to substrates. Secure with wafer-head cabinet installation screws.
- D. Install cabinets level, plumb, and true in line to a tolerance of 1/8 inch in 96 inches using concealed shims.
 - 1. Scribe and cut cabinets to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts.
 - 2. Install cabinets without distortion so doors and drawers fit openings and are accurately aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation. Complete installation of hardware and accessory items as indicated.
 - 3. Fasten wall cabinets through back, near top and bottom, and at ends not more than 16 inches o.c. with fasteners appropriate for substrate.
 - 4. Fasten wall cabinets through back, near top and bottom, and at ends not more than 16 inches o.c. with [No. 10 wafer-head screws sized for not less than **1-1/2-inch** penetration into wood framing, blocking, or hanging strips] [No. 10 wafer-head sheet metal screws through metal backing or metal framing behind wall finish] [toggle bolts through metal backing or metal framing behind wall finish].

END OF SECTION 06 4116

SECTION 08 6270 - TUBULAR SKYLIGHTS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Tubular skylights

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of unit skylight.
- B. Shop Drawings: For unit skylight work. Include plans, elevations, sections, details, and connections to supporting structure and other adjoining work.
- C. Samples for Initial Selection: For each material that requires color selection.
- D. Samples for Verification: For each type of exposed finish required.
- E. Product Schedule: For unit skylights. Use same designations indicated on Drawings.

1.3 INFORMATIONAL SUBMITTALS

- A. Qualification data.
- B. Sample warranty.

1.4 CLOSEOUT SUBMITTALS

- A. Maintenance data.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: An installer acceptable to tubular skylight manufacturer for installation of units required for this Project.

1.6 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of tubular skylights that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
- B. Basis-of-Design Product: Subject to compliance with requirements, provide Solatube International; SolaMaster 750 or comparable product by one of the following:
 - 1. Solatube International.
 - 2. VELUX America Inc.

2.2 PERFORMANCE REQUIREMENTS

- A. Tubular Skylight Standard: Comply with AAMA/WDMA/CSA 101/I.S.2/A440 for definitions and minimum standards of performance, materials, components, accessories, and fabrication unless more stringent requirements are indicated.
 - 1. Performance Class and Grade: Class CW-PG 80.
 - 2. Certification: AAMA-, WDMA-, or CSA-certified unit skylights with label attached to each.

2.3 UNIT SKYLIGHTS

- A. Unit Skylight: Provide factory-assembled tubular skylights that include glazing, extruded-aluminum glazing retainers, gaskets, inner frames, reflective tube, and diffuser and that are capable of withstanding performance requirements indicated.
 - 1. Unit Size and Shape: Circular, 21-inch (533mm) diameter inside curb.
 - 2. Acrylic Glazing: ASTM D 4802, thermoformable, monolithic sheet, category as standard with manufacturer, Finish 1 (smooth or polished), Type UVF (formulated with UV absorber).
 - a. Double-Glazing Profile: Dome.
 - 1) Thicknesses: Manufacturer's standard.
 - 2) Outer Glazing Color: Manufacturer's standard.
 - 3) Inner Glazing Color: Manufacturer's standard.
 - b. Self-Ignition Temperature: 650 deg F or more for plastic sheets in thickness indicated when tested according to ASTM D 1929.
 - c. Smoke-Production Characteristics: Smoke-developed index of 450 or less when tested according to ASTM E 84, and smoke density of 75 or less when tested according to ASTM D 2843
 - d. Burning Characteristics: Tested according to ASTM D 635. Class CC2, burning rate of 2-1/2 inches per minute or less for nominal thickness of 0.060 inch or thickness indicated for use.
 - 3. Glazing Gaskets: Manufacturer's standard.
 - 4. Prefabricated Curb: As specified in Section 07 7200 "Roof Accessories."
 - 5. Curb Mounted Cap & Insulation: Manufacturer's standard

6. Tube: Rigid tube with reflective inside surface and nominal diameter of 21 inches (533 mm).
7. Ceiling Diffuser: For Open Ceilings, aluminum frame with white powder-coat finish and frosted polycarbonate lens.

- B. Condensation Control: Fabricate tubular skylights with integral internal gutters and nonclogging weeps to collect and drain condensation to the exterior.
- C. Thermal Break: Fabricate tubular skylights with thermal barrier separating exterior and interior metal framing.

2.4 ACCESSORY MATERIALS

- A. Fasteners: Same metal as metal being fastened, nonmagnetic stainless steel, or other noncorrosive metal as recommended by manufacturer. Finish exposed fasteners to match material being fastened. Provide nonremovable fastener heads.
- B. Bituminous Coating: Cold-applied asphalt mastic, compounded for 15-mil dry film thickness per coat.

2.5 ALUMINUM FINISHES

- A. Clear Anodic Finish: AAMA 611, AA-M12C22A31, Class II, 0.010 mm or thicker.
- B. Baked-Enamel or Powder-Coat Finish: AAMA 2603 except with a minimum dry film thickness of 1.5 mils.
 1. Color and Gloss: As selected by Architect from manufacturer's full range.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Coordinate installation of unit skylight with installation of substrates, vapor retarders, roof insulation, roofing membrane, and flashing as required to ensure that each element of the Work performs properly and that combined elements are waterproof and weathertight.
- B. Comply with recommendations in AAMA 1607 and with manufacturer's written instructions for installing tubular skylights.
- C. Install tubular skylights level, plumb, and true to line, without distortion.
- D. Anchor tubular skylights securely to supporting substrates.
- E. Where aluminum surfaces of unit skylights will contact another metal or corrosive substrates, such as preservative-treated wood, apply bituminous coating on concealed metal surfaces or provide other approved permanent separation recommended in writing by tubular skylight manufacturer.

3.2 FIELD QUALITY CONTROL

- A. Testing Agency: Engage a qualified testing agency to perform tests and inspections.
- B. After completion of installation and nominal curing of sealant and glazing compounds but before installation of interior finishes, test for water leaks according to AAMA 501.2.
- C. Perform test for total area of each unit skylight.
- D. Work will be considered defective if it does not pass tests and inspections.
- E. Additional testing and inspections, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.

3.3 CLEANING

- A. Clean exposed tubular skylight surfaces according to manufacturer's written instructions. Touch up damaged metal coatings and finishes.

END OF SECTION 08 6270

SECTION 09 7723 - FABRIC-WRAPPED PANELS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes shop-fabricated, fabric-wrapped wall panels.
- B. Related Sections:
 - 1. Section 06 2023 "Interior Finish Carpentry" for wall panel assemblies mounted to cubbies.
 - 2. Section 09 7200 "Wall Coverings" for adhesively applied textile wall coverings and for coordinated requirements for fabric.
 - 3. Section 09 8433 "Sound-Absorbing Wall Units" for shop-fabricated, acoustical wall panels tested for acoustical performance and for coordinated requirements for fabric.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: For panel assembly and installation.
- C. Samples for Verification: For the following products:
 - 1. Fabric: Full-width by approximately 12-inch- long Sample, but not smaller than required to show complete pattern repeat, from dye lot to be used for the Work, and with specified treatments applied. Mark top and face of fabric.

1.3 INFORMATIONAL SUBMITTALS

- A. Product certificates.

1.4 CLOSEOUT SUBMITTALS

- A. Maintenance data.

1.5 FIELD CONDITIONS

- A. Environmental Limitations: Do not install panels until spaces are enclosed and weathertight, wet-work in spaces is complete and dry, work at and above ceilings is complete, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
- B. Air-Quality Limitations: Protect panels from exposure to airborne odors such as tobacco smoke, and install panels under conditions free from odor contamination of ambient air.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Fire-Test-Response Characteristics: Panels shall comply with "Surface-Burning Characteristics" or "Fire Growth Contribution" Subparagraph below, or both, as determined by testing identical products by UL or another testing and inspecting agency acceptable to authorities having jurisdiction:
1. Surface-Burning Characteristics: Comply with ASTM E 84 or UL 723; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 - a. Flame-Spread Index: 25 or less.
 - b. Smoke-Developed Index: 450 or less.
 2. Fire Growth Contribution: Comply with acceptance criteria of local code and authorities having jurisdiction when tested according to NFPA 265 Method B Protocol or NFPA 286.

2.2 FABRIC-WRAPPED PANELS

- A. Products: Subject to compliance with requirements, provide products indicated on Drawings.

2.3 FABRIC-WRAPPED WALL PANELS

- A. Fabric-Wrapped Wall Panel : 3/4"-thick plywood panel consisting of facing material stretched over front face of edge-framed core and bonded or attached to edges and back of frame.
1. Mounting: Edge mounted with splines secured to substrate.
 2. Mounting: Back mounted with manufacturer's standard metal clips or bar hangers, secured to substrate.
 3. Core: 3/4"-thick plywood.
 4. Edge Profile: Custom profile as indicated on Drawings.
 5. Corner Detail in Elevation: Square with continuous edge profile indicated.
 6. Reveals between Panels: Flush reveals as indicated on Drawings.
 7. Facing Material : Fabric from same dye lot; color and pattern as indicated in Material Selection Schedule.
 8. Nominal Core Thickness: As indicated on Drawings.
 9. Panel Width: As indicated on Drawings.
 10. Panel Height: As indicated on Drawings.

2.4 MATERIALS

- A. Core Materials: Manufacturer's standard.
1. Wood and Plywood: Manufacturer's standard plywood or clear, vertical grain, straight, kiln-dried hardwood.
 - a. Plywood shall comply with the testing and product requirements of the California Department of Public Health's Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers.

- b. Fire-retardant treated by pressure process with a flame-spread index of 25 or less when tested according to ASTM E 84 or UL 723, and with no evidence of significant progressive combustion when the test is extended an additional 20 minutes, and with the flame front not extending more than 10.5 feet beyond the centerline of the burners at any time during the test.
 - 1) Treated material shall have a moisture content of 28 percent or less when tested according to ASTM D 3201/D 3201M at 92 percent relative humidity.
 - 2) Kiln-dry material after treatment to 19 percent for lumber and 15 percent or less for plywood.
- B. Facing Material: Fabric from same dye lot; color and pattern as indicated on Drawings.
- C. Mounting Devices: Concealed on back of panel, recommended by manufacturer to support weight of panel, and as follows:
 - 1. Adhesives: As recommended by panel manufacturer and with a VOC content of 70 g/L or less.
 - 2. Adhesives: As recommended by panel manufacturer and that comply with the testing and product requirements of the California Department of Public Health's Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers.

2.5 FABRICATION

- A. Standard Construction: Use manufacturer's standard construction unless otherwise indicated; with facing material applied to face, edges, and back border of dimensionally stable core; and with rigid edges to reinforce panel perimeter against warpage and damage.
- B. Core-Face Layer: Evenly stretched over core face and edges and securely attached to core; free from puckers, ripples, wrinkles, or sags.
- C. Facing Material : Apply fabric fully covering visible surfaces of panel; with material stretched straight, on the grain, tight, square, and free from puckers, ripples, wrinkles, sags, blisters, seams, adhesive, or other visible distortions or foreign matter.
 - 1. Fabrics with Directional or Repeating Patterns or Directional Weave: Mark fabric top and attach fabric in same direction so pattern or weave matches in adjacent panels.
- D. Dimensional Tolerances of Finished Panels: Plus or minus 1/16 inch.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install panels in locations indicated. Unless otherwise indicated, install panels with vertical surfaces and edges plumb, top edges level and in alignment with other panels, faces flush, and scribed to fit adjoining work accurately at borders and at penetrations.
- B. Comply with manufacturer's written instructions for installation of panels using type of mounting devices indicated. Mount panels securely to supporting substrate.

- C. Align fabric pattern and grain with adjacent panels and adjacent acoustical wall panels where present.

3.2 CLEANING

- A. Clip loose threads; remove pills and extraneous materials.
- B. Clean panels on completion of installation to remove dust and other foreign materials according to manufacturer's written instructions.

END OF SECTION 09 7723

SECTION 09 9114 - EXTERIOR PAINTING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Surface preparation and application of paint systems on exterior substrates.
- B. Related Requirements:
 - 1. Section 05 1200 "Structural Steel Framing" for shop priming of metal substrates.
 - 2. Section 05 5000 "Metal Fabrications" for shop priming metal fabrications.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include preparation requirements and application instructions.
 - 2. Include printout of current "MPI Approved Products List" for each product category specified, with the proposed product highlighted.
- B. Samples for Initial Selection: For each type of topcoat product.
- C. Samples for Verification: For each type of paint system and each color and gloss of topcoat.
 - 1. Submit Samples on rigid backing, 8 inches square.
 - 2. Apply coats on Samples in steps to show each coat required for system.
 - 3. Label each coat of each Sample.
 - 4. Label each Sample for location and application area.
- D. Product List: Cross-reference to paint system and locations of application areas. Use same designations indicated on Drawings and in the Exterior Painting Schedule to cross-reference paint systems specified in this Section. Include color designations.

1.3 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For qualified Installer.

1.4 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Paint: 5 percent, but not less than 1 gal. of each material and color applied.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F.
 - 1. Maintain containers in clean condition, free of foreign materials and residue.
 - 2. Remove rags and waste from storage areas daily.

1.6 FIELD CONDITIONS

- A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 deg F.
- B. Do not apply paints in snow, rain, fog, or mist; when relative humidity exceeds 85 percent; at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Products: Subject to compliance with requirements, provide one of the products listed in the Exterior Painting Schedule for the paint category indicated.
- B. Source Limitations: For each system, provide products by the same manufacturer as the topcoat.

2.2 PAINT PRODUCTS

- A. MPI Standards: Provide products complying with MPI standards indicated and listed in its "MPI Approved Products List."
- B. Material Compatibility:
 - 1. Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
 - 2. For each coat in a paint system, provide products recommended in writing by topcoat manufacturers for use in paint system and on substrate indicated.
- C. Colors: Where colors are indicated or scheduled, provide colors to match those colors. Where colors are not indicated, provide colors as selected by Architect from manufacturer's full range.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
- B. Verify suitability of substrates, including surface conditions and compatibility, with existing finishes and primers.
- C. Proceed with coating application only after unsatisfactory conditions have been corrected.
 - 1. Application of coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations in "MPI Manual" applicable to substrates and paint systems indicated.
- B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
 - 1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection.
- C. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.
 - 1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.
- D. Steel Substrates: Remove rust, loose mill scale, and shop primer if any. Clean using methods recommended in writing by paint manufacturer.
- E. Shop-Primed Steel Substrates: Clean field welds, bolted connections, and areas where shop paint is abraded. Paint exposed areas with the same material as used for shop priming to comply with SSPC-PA 1 for touching up shop-primed surfaces.
- F. Galvanized-Metal Substrates: Remove grease and oil residue from galvanized sheet metal by mechanical methods to produce clean, lightly etched surfaces that promote adhesion of subsequently applied paints.

3.3 INSTALLATION

- A. Apply paints in accordance with manufacturer's written instructions and recommendations in "MPI Manual."
 - 1. Use applicators and techniques suited for paint and substrate indicated.

2. Paint surfaces behind movable items same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed items with prime coat only.
 3. Paint both sides and edges of exterior doors and entire exposed surface of exterior door frames.
 4. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
 5. Primers specified in the Exterior Painting Schedule may be omitted on items that are factory primed or factory finished if compatible with intermediate and topcoat coatings and acceptable to intermediate and topcoat paint manufacturers.
- B. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.
- C. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.
- D. Painting Fire Suppression, Plumbing, HVAC, Electrical, Communication, and Electronic Safety and Security Work:
1. Paint the following work where exposed to view:
 - a. Equipment, including panelboards.
 - b. Uninsulated metal piping.
 - c. Pipe hangers and supports.
 - d. Metal conduit.
 - e. Tanks that do not have factory-applied final finishes.

3.4 CLEANING AND PROTECTION

- A. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- B. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.
- C. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.5 EXTERIOR PAINTING SCHEDULE

- A. Steel and Iron Substrates:
1. Water-Based Light Industrial Coating System MPI EXT 5.1C:
 - a. Alkyd Prime Coat: Primer, alkyd, anti-corrosive for metal, MPI #79.
 - 1) VOC Content: E Range of E2.
 - b. Intermediate Coat: Light industrial coating, exterior, water based, matching topcoat.
 - c. Semigloss Topcoat: Light industrial coating, exterior, water based, semigloss (MPI Gloss Level 5), MPI #163.
 - 1) VOC Content: E Range of E2.
- B. Galvanized-Metal Substrates:

1. Water-Based Light Industrial Coating System [**MPI EXT 5.3J**]:
 - a. Acrylic Prime Coat: Primer, galvanized, water based, MPI #134.
 - 1) VOC Content: E Range of E2.
 - 2) Environmental Performance Rating: EPR 2.
 - b. Intermediate Coat: Light industrial coating, exterior, water based, matching topcoat.
 - c. Semigloss Topcoat: Light industrial coating, exterior, water based, semigloss (MPI Gloss Level 5), MPI #163.
 - 1) VOC Content: E Range of E2.

END OF SECTION 09 9114

SECTION 11 4000 - FOOD SERVICE EQUIPMENT

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. All Drawings, General and Supplementary Conditions, Division 1, Specifications, and related contract documents apply to this section and the requirements may exceed those shown in this section. The Food Service Engineering Consultants on this project are JRA Food Service Consultants, LLC in Grand Rapids, Michigan (616-454-4433) and is responsible to the Architect and Owner for ascertaining that the Food Service Equipment Contractor complies with all the requirements of this section.

1.02 SUMMARY

- A. As listed in this division, the Food Service Equipment Contractor shall furnish all labor, material, work, equipment, transportation, accessories, taxes, etc. for a complete and continuous installation in accordance with the requirements of these plans and specifications and related documents.
- B. The FSEC shall familiarize themselves with local conditions affecting the cost of the work and examine the site and all Food Service Equipment contract documents including Architectural drawings, and contract documents, all of which constitute the responsibility of the FSEC.

1.03 SUBSTITUTIONS AND VOLUNTARY ALTERNATES:

- A. The first manufacturer of equipment listed in the item specifications is intended to be the basis of the base bid. All other manufacturers must conform to the specifications, size, accessories, materials, capacity, etc.
- B. A proposed substitution on any specified equipment must be submitted to the Consultant 10 days in advance of the bid date and must include all manufacturers shop drawings and data sheets on the proposed equipment. The supplier shall pay any additional costs incurred for changes, engineering services, utilities, construction, etc. that may be incurred by said substitutions.

1.04 INTERPRETATION OF DOCUMENTS:

- A. Prior to receipt of bids, all questions, clarification, and changes in the documents shall be executed by addendum. After award of contract, all changes shall be performed by bulletin.
- B. FSEC shall submit an itemized price breakdown to the Consultant on their letterhead for each piece of equipment including labor, freight, manufacturer, quantity, taxes, etc. as applicable.
- C. Any deletions of equipment by the Owner and/or Consultant prior to approval and/or release of the shop drawings, brochures, etc. shall be credited to the Owner at the itemized price as listed in the itemized price breakdown and include all equipment costs, freight, labor, taxes etc. Pricing shall not be credited at the amount listed on the Schedule of Values.
- D. Any additions to equipment by the Owner and/or Consultant that result in cost increases after approval and/or release of shop drawings, brochures, etc. shall be immediately noted by the FSEC and a written request with prices for a bulletin shall be issued by the FSEC to the Consultant.
- E. The General Specifications are applicable to items listed in the item specifications.

1.05 ABBREVIATIONS

A. The following abbreviations are used herein unless otherwise noted on the plans or item specifications.

A	Amps
AFF	Above Finish Floor
BTC	Branch To Connection
CFM	Cubic Feet of Air Per Minute
C.P.	Chrome Plated
CW	Cold Water - 25 PSI
DCO	Duplex Convenience Outlet - 20 amp
DFA	Drop From Above
E.C.	Electrical Trades
FL DR	Floor Drain - Wade W1104
FFD	Funnel Floor Drain - Wade 1104-EF4
FL SK	Floor Sink - 12" - Wade W9144-15
FPM	Feet Per Minute
FSEC	Food Service Equipment Contractor
F.S.C.	Food Service Consultant
G	Natural Gas - 7" water column
GP	General Purpose
G.S.	General Specifications
G.C.	General Trades
HVAC	Heating Ventilation HVAC Trades
HP	Horsepower
HW	Hot Water - 140 degree - 25 PSI
J.B.	Junction Box
KW	Kilowatt
N.S.R.	No Service Required
N.I.C.	Not in FSEC contract
P.C.	Plumbing Trades
S.O.M.	Standard of Manufacturer
s.s.	Stainless Steel
SS	Steam Supply - 25 PSI
SR	Steam Return
V	Volts
VIF	Verify in field
W	Waste Outlet
W.G.	Water Gauge - Static Pressure

1.06 CONFORMITY

- A. All equipment furnished under these specifications shall be newly manufactured and installed in strict conformity with all codes, regulations and requirements of the State Board of Health, the National Sanitation Foundation Standards, or any state or local agency.
- B. All equipment shall conform to the current standards and bear the seal of UL, NEMA, ASME, AGA, OSHA, NFPA, etc. where applicable and/or otherwise conform to the requirements of the authorities having jurisdiction.

- C. Wherever the requirements of the specifications and drawings are in excess of the regulations, the specifications and drawings shall govern. Whenever the regulations are in excess of the specifications and drawings, the regulations shall govern.
- D. Wherever the requirements of the specifications are in excess of the drawings, the specifications shall govern. Whenever the requirements of the drawings are in excess of the specifications, the drawings shall govern.

1.07 PERMITS - LICENSES - PHONE CALLS

- A. Provide to the proper authorities all notices required by law, obtain all refrigeration permits, licenses, etc., and pay any legal fees necessary for the due and faithful performance of the work, and which may arise incidental to the fulfilling of the foodservice documents. The Owner shall pay for any health department plan review or license fees.
- B. Permits shall be provided as required. Refer to the Construction Managers scope of work.
- C. Accept all collect phone calls relating to food service equipment that pertain to the project until warranty has expired on the equipment.

1.08 SUBMITTAL OF BUYOUT BROCHURES AND SHOP DRAWINGS

- A. Shop drawing and brochure requirements may also be listed in the general requirements or other areas of the documents. Provide submittals as per those requirements or as listed below - whichever is greater.
- B. All shop drawings, rough-in drawings, equipment brochures, etc. shall be submitted at one time within 20 days of the notice to proceed. Said items are subject to the terms and conditions of the plans and specifications for the entire project. All drawings which are submitted for distribution shall be clear and concise and have the following notes printed on each and every sheet:

Name of the F.S.E.C.
Name and location of the project.
Name of the Architect.
Name of the Consultant.
Name of the General Contractor.
Drawing number.
Date of drawing and revisions.

The following statement: The (name of F.S.E.C.) is solely responsible for the accuracy and completeness of these drawings and specifications, and we approve them for construction purposes.
Signed: (Officer, Partner, etc.)

- C. All submitted data shall be reviewed for general compliance only and does not alleviate the F.S.E.C. from providing equipment as per the intent of the plans and specifications.
- D. Owner shall not be responsible for any equipment ordered or prior to receipt of Consultant approved brochures or shop drawings.
- E. If applicable, the F.S.E.C. shall visit site to verify requirements of existing or relocated

equipment prior to submittals.

1.09 BUYOUT BROCHURES:

- A. As soon as possible, prepare a buy-out equipment brochure in PDF format with copies of manufacturer's specification sheet or literature on each item, along with a list of the model, manufacturer, quantity, connections required, accessories, etc. for each item and component or accessories. Material on all items shall be assembled in order and no consideration will be given to partial lists submitted from time to time.

1.10 ROUGH-IN DRAWING AND MECHANICAL DATA:

- A. As soon as possible, submit an electronic drawing in PDF format at 1/4" scale to locate accurately the utility connections for each item of equipment requiring water, gas, electrical, and drain. Listed on the drawings shall be dimensions to required utilities and located from a center line of a structural column or another positive reference point.
- B. Upon final approval of data, distribute copies to all trades, Owner, Architect, health department, etc. as required.
- C. Drawings shall be at 1/4" scale or larger and indicate each electrical and mechanical roughing-in required for all new and/or relocated or future or purveyor supplied (the Owner shall provide proper data on purveyor supplied equipment) food service equipment as listed in the plans or specifications. Include all electrical and convenience outlets, gas, water, steam, ventilation, drains, floor depressions, wall openings, weights, ceiling recess or access panels, sleeves, beverage lines, roof data, refrigeration, etc.
- D. Furnish all necessary assistance to the various trades and be responsible for the proper location of sleeves and conduits through which the utility lines are to be drawn. A field inspection shall be made before the finished floors are laid to make any necessary relocations of the utility sleeves, rough-ins and conduits, and immediate written notice shall be provided if rough in problems have occurred.

1.11 SUBMITTALS OF SHOP DRAWINGS:

- A. Completely detail and submit shop drawings (s.s. fabrication, fire protection, ventilation, plastic laminate fabrication, walk ins, sneeze guards, cafeteria serving counters, hoods, etc.) in electronic PDF format showing all items to be provided under this section of the specifications. Drawings to be submitted for review at 1/2" per foot scale or larger. Upon final review of data, distribute copies to all trades, Owner, Architect, etc. as required.
- B. The drawings shall show all elevations, sections, dimensions, mechanical and electrical requirements, related details of construction, installation and related work which require cutting, close fitting, etc. as required for installation.
- C. Submit proper notifications in writing of any departures from the contract drawings or specifications which may be necessary to permit installation of the equipment. Fabrication should not be started until after final approvals are received and final field measurements are taken.

1.12 MAINTENANCE MANUALS

- A. At time of demonstration, provide to the person in charge of the kitchen a minimum of three bound

current copies of kitchen plans, roughing-in drawings, any and all warranties, instructions, parts lists, operating instructions for each piece of mechanical equipment, as built shop drawings, and "Buy-Out" brochures.

- B. Manuals shall include a typewritten list in the front of the manual listing the names, addresses, and telephone numbers of local servicing agencies and manufacturer's representatives for all equipment.

1.13 SAMPLES

- A. Submit all required samples for approval, if required, of all hardware, plastic laminate, paint, etc. before starting fabrication. Other samples shall be supplied as required.

1.14 MEASUREMENTS

- A. Measurements required to size and place the food service equipment shall not be taken from drawings but shall be made at the structure from the actual spaces reserved therefore, and giving due consideration to any architectural, structural or mechanical discrepancies that may occur during construction of the building. Verify size of all of Owners equipment and small wares (dishes, trays, pans, etc.) and Purveyor supplied equipment (urns, soda systems, beverage dispensers, etc.), if applicable. Field dimensions shall be taken at the earliest opportunity so as not to delay deliveries.
- B. Verify in field any and all measurements before doing any work on equipment that may be affected by the physical conditions and be responsible for the correction of same.
- C. Inspect equipment for proper operation prior to relocation. Advise if equipment is defective or needs rework which is not included in the original contract and submit a written quotation for said work.
- D. Coordinate Owners and/or Purveyor supplied equipment (coffee makers, beverage equipment, cash registers, soda equipment, etc.) as required for rough-in data, installation, etc.
- E. Measurements for tight fitting equipment shall allow no more than 1/4" between wall and equipment that shall be trimmed and/or sealed as required.

1.15 WARRANTY

- A. Provide a written warranty for all equipment against defects in workmanship and material for one (1) year from date of substantial completion and acceptance, excluding refrigeration units which shall carry an additional four-year warranty and a ten-year warranty on all walk-in panels. This shall cover any replacements and/or repair costs of such defective material, including transportation, labor, and materials for all equipment. This one-year free service, warranty and guarantee shall be available within 24 hours of notification on all equipment except refrigeration.
- B. Provide one-year free service, warranty and guarantee within 12 hours of notification on walk-In refrigeration and units must be operational within 24 hours after service call.
- C. This warranty is not intended to cover equipment which has been overly abused or items that have not had proper periodic maintenance (door gaskets, uncleaned refrigeration condensers, etc.) during the one-year period.

1.16 DELIVERY AND STORAGE

- A. Furnish all labor, material, equipment, etc. as required to unload and store all equipment.
- B. No equipment shall be delivered to the site unless it has been ascertained that storage space is available.
- C. Make all arrangements to deliver, unload, and store all equipment and shall assume all responsibility for safeguarding the equipment until it is accepted by the Owner.
- A. Unless noted in the item specifications, remove and store any existing and/or relocated equipment that is removed from the kitchen during the construction period.

PART 2 - GENERAL SPECIFICATIONS - PRODUCTS

2.01 MANUFACTURER'S STANDARDS

- A. It is the intention of these specifications to provide a type of equipment conforming to manufacturer's standards and only minor variations in construction will be accepted, provided that these variations do not detract from the finished appearance, durability, general function or in any way affect general overall size, capacity, strength, etc. of equipment.
- B. Manufacturer's catalog designation of material and/or fabricated equipment used in the following specifications are intended to illustrate and represent the standards which will be required by the owner. Equipment furnished must closely conform thereto in design, construction, capacity, and function to make and model called for. Where such catalog designations are given, the items shall be complete as described and shown in the catalog unless exceptions are in itemized specifications.
- C. When more than one manufacturer is listed in the Item Specification, only one manufacturer shall be acceptable for items of a similar nature (fabrication, cooking equipment, refrigerators, shelving, carts, etc.) to insure uniformity of design, installation, service, etc.

2.02 FABRICATION STANDARDS

- A. Unless noted under itemized specifications or on plans, the following specifications shall govern the construction of all fabricated and buyout equipment and installation and shall apply to the individual item as if it were written therein in its entirety.

2.03 FABRICATED EQUIPMENT

- A. It is required that all custom fabricated items (counters, tables, sinks, dish tables, etc.) described in the plans and specifications, other than by name and catalog number, be constructed of 300 series stainless steel and be manufactured by one fabricator. Metal-Masters Inc, Advance Tabco Co., Kevry Co., Professional Restaurant Services (PRS), LTI Co., John Boos, Pushard Co., Keystone Fabricators Co., Titan Co. and McCallum Co. are approved fabricators and have demonstrated the possess the plant, personnel and engineering facilities to properly design, detail, and manufacture high quality kitchen equipment.
- B. All work in the above category shall be standard unit assembly, by one foodservice equipment manufacturer of uniform design, material and finish.

2.04 BACKSPLASHES

- A. Where edges of the top are adjacent to walls, column, equipment or enclosures, they shall be turned up to provide a backsplash which shall be tight fitting (1/4" or less). Unless noted, all backsplashes shall be formed by turning up 10" and flanged back 2-1/2" at 45 degrees and down 1" and attach to wall with 6" by 2" s.s. "Z" clips on 3'-0" centers. Ends of backsplash shall be fitted with closure plates. Weld a full s.s. enclosure panel for exposed rear backsplash.
- B. Tops adjacent to refrigerators, ovens or cabinets shall be turned up 4" with top edges feathered slightly to form a tight fit of 1/4" or less. Seal with mastic compound.

2.05 BOLTS, SCREWS AND RIVETS

- A. All exposed surfaces of equipment shall be free of bolt, screw and rivet heads. Wherever bolts are used to fasten tops and trim to paneling, body of counters and similar equipment, such bolts shall be of an approved type and shall be corrosion resistant metal of the same alloy as the metal to which they are fastened with acorn type nuts to eliminate sharp edges.

2.06 CASTERS

- A. Provide heavy duty casters with double ball bearing raceways, heavy gauge fork and races and have minimum capacity of 250 pounds per caster. Casters shall be provided with brakes. Wheel shall be non-marking urethane.

2.07 CODES AND SANITATION

- A. All food service equipment under this contract shall meet the requirements and bear the label of the National Sanitation Foundation. Specifications set forth are considered minimum and are to be superseded by any superior requirements in effect as of this date by the National Sanitation Foundation or the State Health Department. Any differences of opinion on sanitation shall be referred to the State Health Department for arbitration.

2.08 CORNERS

- A. All corners shall be fully rounded and made integral and of the same sheet as the top and rolled edges. Radii of all rolled edges to be equal and rolled 2" diameter at least 180 degrees. Filler pieces or soldering shall not be used in place of all welded, seamless construction.

2.09 CUTTING BOARDS

- A. Provide Read Products or Mapletex Co. 1/2" minimum thick reversible boards as per plan as manufactured by Read Products Inc. when attached to grills or similar equipment, provide s.s. mounting brackets.

2.10 DISHTABLES

- A. Provide NSF approved series SC-DT dish tables with 14 gauge 304 s.s. coved corner construction as manufactured by Metal-masters Co. or equal with 10" backsplash as previously specified where adjacent to walls and remainder of tables to have 3" high roll rim and be mounted on 12 gauge under-channeling, 16 gauge s.s. cross rails and legs with s.s. gussets and s.s. adjustable bullet feet and/or flange type feet. Tops shall be pitched to dishwasher to avoid standing water and undersides shall have sound deadening material and be attached to walls with s.s. "Z" clips.

- B. Provide removable 18 gauge s.s. under-shelving which has 2" rolled up edges at rear and roll down edge at front and be supported on s.s. cross rails on all sides. Notch all corners to fit legs and piping. Under-shelving shall not interfere with booster heater or adjacent equipment.
- C. Provide s.s. recessed drain trough with drainer in all soiled dish tables. Unit shall not interfere with dishwasher control panels or adjacent equipment.
- D. Disposer cones and/or scrapping trough shall be integrally welded into top and also provide s.s. brackets for switch and holes in backsplash return for vacuum breaker. Trough shall be size and shape as per plan by 6" deep with coved corner construction and sloped to disposer. Provide 20" long s.s. pan formed removable trough covers. Provide T&S Co. 2905 water inlet at shallow end of trough and every 3'-0" and at change in directions. Inlets shall be controlled by a 2600 mixing valve mounted on a s.s. bracket mounted under dish table and be interconnected to water line and solenoid so water flows thru inlets when disposer in operation.
- E. Provide integral s.s. pass thru sill extending thru wall as per plans and specifications with flat side splashes and turn down front with closed ends. Provide 1" rear turndown at table at 30 degrees so sill is higher than dish table. Provide wood bracing on sill as required for support. Verify requirements of roll up door by prior to installation of tables.
- F. Provide raised roll rim in lieu of 3" high roll rim at front edge of soiled dish table when used as a pass thru dish deposit area.

2.11 DOORS:

- A. SLIDING DOORS - Sliding doors shall be constructed of 16 gauge s.s. or material listed in the item specifications with roller bearing slides.
- B. SINGLE PAN - Construction, 16 gauge s.s. with 3/4" thick sound deadening fiberglass between the two thicknesses of metal. Back panel to be 20 gauge steel. Door to operate on top hung ball bearing rollers. Bottom edge of doors to be square and fitted with a groove that rides over a s.s. pin at center point.
- C. All doors shall be fitted with stops and locks. Handles shall be die stamped s.s. flush mounted.
- D. HINGED DOORS - All hinged doors for cabinet bodies and enclosed bases shall be double pan construction. Doors shall be flush mounted and be fitted with s.s. piano type full length hinges. They shall be furnished with friction catch and s.s. recessed handles, locks, and two rubber button noise eliminators, one at each corner on handle side.

2.12 DRAWERS:

- A. All drawer inserts shall be coved corner die stamped out of one piece of 18 gauge s.s. or plastic and shall set loosely in a channel frame so it can be lifted out for cleaning. Top edges are to be flanged out 1/2".
- B. The supporting frame shall be welded steel channel with s.s. drawer face welded to frame so there will be no exposed screws or rivets on the face which shall extend 3/4" out at top and down 3/4" with 1/2" hemmed edge and radius corners to form drawer handle. Provide two rubber button shock stop noise eliminators one on each side of the drawer face at the top.
- C. Provide heavy duty s.s. drawer slides with heavy duty s.s. ball bearing wheels. Slides and frame to be so

designed as to allow full opening of drawer and to be reinforced to support 150 lbs. when fully extended.

- D. Adjustable stops are to be provided for each drawer at the fully open position. Drawers on open base tables shall be enclosed in an 18 gauge housing of steel. Drawer guides are to be sloped to provide self-closing action.
- E. All drawers shall be 20" by 20" by 5" deep.

2.13 ENCLOSED BASE CABINETS:

- A. All enclosed bases or cabinet bodies shall be similar to Delfield Company or equal Mark VII series and constructed with 14 gauge s.s. tops and 18 gauge s.s. bodies and be enclosed on the ends and sides. The bases and bottom shelves shall be reinforced with channels and angle bracing and gussets as required. Additional angles and channel cross members shall be provided to reinforce shelves and support tops as required for counter top equipment (urn, ice dispensers, drink dispensers, etc.) as shown on plan.
- B. All free corners of enclosed bases or cabinet bodies shall be rounded on a 5/8" radius and all corners against walls and other fixtures shall be square. In the case of fixtures fitting against or between walls, the bodies shall be set 1" from the wall line, but the tops will extend back to the wall line to permit space for rough-ins and adjustment to the wall irregularities. The ends of the cabinet bodies shall extend to the wall line and be sealed and/or trimmed as required.
- C. These fixtures shall be constructed with 6" s.s. adjustable legs, unless set on masonry or steel bases as called for in the itemized specifications.

2.14 FIELD JOINTS:

- A. All field joints shall be welded with rod of same basic composition as sheets or parts welded. Welds shall be free of pits, cracks, cross graining or discolorations and shall be ground and polished to the original finish of the metal. No soldered or bolted joints shall be used unless noted in item specifications and shall be properly sealed and bolted.

2.15 GRINDING AND POLISHING:

- A. All exposed welded joints shall be ground flush with the adjoining material and neatly finished to harmonize therewith. Services shall be free of depressions. Wherever sheared edges occur, they shall be free of burrs, projections and fins to eliminate all danger of cutting or laceration when the hand is drawn over such sheared edges. Where miters or bull nosed corners occur, they shall be neatly ground to a uniform condition, and in no case will overlapping material be acceptable. All exposed surfaces shall be satin finish except rim which shall be a highly polished and buffed finish. Satin finish shall be comparable to the commercial mill finish known as No. 4 for s.s. No cross graining on equipment is acceptable.

2.16 GUARDS

- A. All machines shall be furnished fully enclosed with guards built in accordance with safety codes and regulations of State or Governmental agency having jurisdiction.

2.17 HOT FOOD WELLS:

- A. Provide insulated food wells with coved corner s.s. interior and the electrical element attached to the underside of well. When units are specified with drains, the manufacturer shall provide a drain assembly with bushing and a universal joint as required to manifold and interconnect all wells with a master and individual valves and Drain handles shall be easily accessible from employee side of counter. All wells shall be inter-wired to master switch with indicator light. Provide galvanized access panel below wells to protect wiring. Units shall be heated by 208/240 volt 1200 watt electric elements with thermostatic control with guard ring and pilot light or 3600 BTU gas burner with individual control and removable heavy steel radiant plate set above heating device.

2.18 INTERIOR SHELVES:

- A. All interior shelves in cabinet bodies and enclosed bases shall be 18 gauge s.s. or as called for in the itemized specifications. Turn up on back and ends of shelf shall be 1-1/2" high and coved on 3/4" radius. The front edge shall be turned down 1-1/2" and back 1/2". All shelves shall be rigidly reinforced below to prevent sagging. Provide ferruled cutouts in shelves for drain lines, conduits, etc.

2.19 LEGS - FEET - FRAMES:

- A. All legs and pipe stands for open base tables, dish tables, etc. shall be constructed of 16 gauge s.s. tubing unless noted, with cross rails and braces of the same materials. All joints between legs, under-shelves and cross braces are to be welded and ground smooth.
- B. Cross rails must be supplied to reinforce each leg. Legs anchored to gussets at top only and without cross rails are not acceptable. Pipe stands and frames furnished on all pipe base fixtures shall have legs of 1-5/8" O.D. 16 gauge s.s. tubing, cross rails of 1" O.D. 16 gauge s.s. tubing unless noted.
- C. Top of stand shall be fitted into s.s. gussets welded to reinforcing structure on underside of the table top, spaced not over 3"-6" on centers.
- D. All legs shall be fitted with adjustable s.s. bullet shaped feet with bottom of pipe legs to be finished off smoothly and overlap the stem to provide sanitary fitting and prevent the accumulation of grease or other debris at this joint. Provide s.s. flange type feet securely anchored for island style counters, sinks, etc.
- E. All pipe legs or vertical members are to be set back from edge of table tops a sufficient distance to offset any interference with workers, walls, columns or other equipment.
- F. Provide 6" adjustable legs with adjustable s.s. bullet foot for fabricated and/or buyout equipment with minimum capacity of 1500 pounds each.

2.20 MATERIALS AND STRUCTURAL SHAPES:

- A. Angles, bars, channels, piping, pipe legs, etc. used shall be uniformly ductile in quality and free of hard spots, runs, checks, and other surface defects. Except as otherwise specified, all such sections shall be milled steel galvanized by the hot dip process, all free of runs and blisters, uncoated spots or patches. S.S. shall be 18-8 composition (302 alloy) standard with No. 4 finish and polished to 180 grit and welded as previously specified. Provide butyl sealant sound deadening between tops and all structural supports or as required.

2.21 NAME PLATES

- A. Each item of equipment shall have a corrosion resistant metal name plate with model number, serial number, name and address of the manufacturer securely fastened to equipment in a non- conspicuous area. All mechanical and electrical controls, switches, disconnects, remote compressors, etc. shall be labelled with metal or engraved phenolic plastic signage.

2.22 OVERSHELVES AND WALL SHELVES:

- A. Provide 10" wide NSF 16 gauge s.s. over-shelves or wall shelves unless noted in the plans or item specifications. Provide wall mounted shelves with rear and sides to be turned up square 1" and front edge to have sanitary roll rim. Provide heavy gauge s.s. wall mounting brackets 6" from ends of shelf with maximum of 4'-0" on centers.
- B. Provide all over-shelves with sanitary rolled edges and bull nose corners on all four sides unless equipment is mounted on shelf (microwave, toaster, dishes, etc.) and provide 1/2" turn up at rear for that portion of the over-shelf. Provide s.s. tubular support standards as required for shelf mounted equipment and with provisions for mounting to table or counter top.
- C. Provide all wall backing and/or structural support as required for shelves to support 50 pounds per square foot and coordinate installation of same with trades.

2.23 PAINTING

- A. All galvanized material and black steel shall be thoroughly cleansed of all oil and foreign matter and given two (2) coats of enamel paint as selected.

2.24 ROLLED RIMS AND EDGES

- A. Standard roll rim shall be covered up 3" with 1/2" diameter roll at 180 degrees and bullnose corners.
- B. Square edge shall be turned down 2" at 90 degrees with 3/4" tight hem at bottom.
- C. Marine edge shall be turned up 1/2" on a 45 degree angle and turned down 2" with 3/4" tight hem at bottom.
- D. Wherever table tops are used in connection with sinks, the top shall be fabricated with a 1/2" high raised roll rim spillage edge unless otherwise specified. Top to be integrally raised approximately 1/2" at all edges and then rolled down 2" at 210 degrees with bull nose corners.

2.25 REINFORCED STRUCTURES:

- A. Counter, table, and cabinet framework shall be constructed of steel angles horizontally and channels vertically, made in sections to permit assembly on job with tops field welded. Vertical fronts and sides of cafeteria counters and similar enclosures are to be reinforced with channels on approximately 3'-0" centers to support the tray slide brackets.
- B. Unless otherwise specified, angles or channel frames and similar cross bracing on not over 2'-0" centers to be provided under all counter and table tops to stiffen tops and furnish fastening supports for leg flanges.

2.26 SINKS:

- A. Provide 14 gauge s.s. coved corner sink bowls integrally welded as per plan with welded seamless construction with scored bottom towards a die stamped drain outlet with a Fisher lever handle waste and connected overflow located 1" below drain board and shall not interfere with plumbing, adjacent walls, equipment, etc. Provide 14 gauge s.s. bracket for drain stem. All multiple compartment sinks shall be double walled construction. When sinks are built into enclosed base counters, provide access holes for lever waste handle stem.

2.27 TABLETOPS:

- A. METAL - Metal table tops to be 34" high and be constructed of 14 gauge 302 s.s. with NSF roll rim construction and bull nose corners unless otherwise noted. All seams and coved corners shall be welded, ground smooth and polished. Provide ferruled access holes for cutouts for water lines, cords and plugs, etc. as required in table tops, counter tops, urn stands, etc. All open base tables shall be reinforced with 12 gauge angles or channels. Provide welded cross angle or channel members shall be placed at each pair of legs with gussets, welded cross rails and feet as previously specified.
- B. One angle runner, running lengthwise shall be provided on tops up to 30" wide; two provided on tops over 30" wide. All tops shall be reinforced so that there will be no noticeable deflection and all reinforcements shall be stud welded to the underside of the top. No rivets or bolts to be used through the top. Provide sound deadening material between tops and reinforcing members and underside of tops. Field joints are to be provided in the top where necessary.
- C. RICHLITE – Read Products or Mapletex or plastic tops shall be NSF construction with 1" thick top with drop edge supported on 12 gauge framing and top reinforcement channels attached to legs as above. Provide 6" coved riser at rear and sides when specified. When drawers are specified below tops, 12 gauge reinforcement channels shall be provide for mounting of drawers or for tables with removable tops. If Read Products or Maple-Text top tables are used as bake table, verify location and size of ingredient bins located below drawers to assure proper fit.

2.28 UNDERSHELVES:

- A. The under-shelves on open base tables, dish tables, etc. shall be a solid removable 16 gauge s.s. shelf unless noted in the itemized specifications. Shelf is to be turned up at rear and down on all front and side (down on all island units) edges 1-1/2" with corners at legs cut out and mounted on the support stringers on all four sides. Provide ferruled access holes as required for drain lines, water lines, conduits, etc.

2.29 VENTILATION-HOODS-DUCTWORK

- A. Unless otherwise stated in the item specifications, provide 300 series 18 gauge s.s hoods similar to Captive Air Co. or Duo Aire Co. or Accurex Co. and be manufactured in accordance with and bear the seal of NSF, UL, and NFPA 96. Hoods shall be mounted 6'-8" above finished floor and must overhang all equipment by a minimum of 6" at front (18" for drawer type broilers) and sides and be furnished with a full complement of s.s. UL filters, filter frame with grease cup, recessed LED lights inter-wired to junction box on top of hood and to switch on face of hood, duct collars, fire dampers, hangers, hemmed 18 gauge s.s. end panels, s.s. closure panels from top of hood to ceiling, cutouts and trim for power distribution system or columns, etc. Provide insulated NFPA integral 3" stand-off behind hood when installed on non-rated wall. Walls for hood mounting shall be rated as required by code.
- B. All exhaust fans shall be UL-762 rated vertical discharge fans with insulated curb, hinged base with grease collection device, mounted and inter-wired starter and disconnect, adjustable drive assembly and

be sized for CFM as per plans with a sound classification of "average" and not to exceed 12 sones.

- C. All makeup air units shall be sized for CFM as per plan. Unit shall be fully factory built with supply fan, filter section with bird screen, motorized inlet dampers, metal cabinet with weather proof epoxy coated finish in color as selected by Owner, 12" legs and rails, curb, vibration eliminators, factory wired control panel and disconnect with wiring harness and pigtails for interlock of exhaust fan and make-up air unit to switch panel on face of hood or remotely located. If required by code provide a pre-heat section (gas, electric, steam or hot water) which shall provide a minimum degree rise capability (as shown in item specifications and/or as required by local code) complete with full modulating controls, thermostat, etc. as required for a complete system. Provide all UL listed components.
- D. All ductwork shall be constructed and installed as per SMACNA minimum gauges and requirements. Make-up air ductwork shall be insulated and of rigid metal construction. Flex duct will not be allowed. Provide welded 16 gauge black iron exhaust ductwork as per code requirements and conform to all building requirements and obstructions with all dimensions subject to verification in field. Provide all ductwork with cleanouts every 6'-0" of horizontal run (with pitch as per code) and at changes in direction, access panel, dampers, curbs, flashing, flanges, plenums, supports, insulation, etc. as required by code and to provide a watertight system. Fire rating shall be provided as noted on the food service plans and in the item specifications.
- E. System is to be factory tested and balanced as required for proper operation with written report to Architect and Owner.
- F. Roof openings, structural support, fire proofing, and final connections shall be provided as outline in the Construction manager scope of work.
- G. If required by code, cooking exhaust hoods shall have an Ansul Co. R-102 or equal chemical fire protection system and will be listed separately in the specifications.

2.30 WALK INS AND REFRIGERATION

- A. Provide NSF and UL approved walk ins as per the item specifications size and shape as per plan by 8'-6" high and furnished with prefabricated modular construction tongue and groove cam lock style panels for walls with coved vinyl screed, ceilings, and floors with 4" foamed in place UL-25 flame spread class No. 1 urethane insulation with a minimum "R" factor of 32 and a "K" factor of 0.121. Wall and ceiling panels shall have 0.040 stucco embossed aluminum or 20 gauge 304 s.s. finish and floor panels shall be 0.100 smooth aluminum or 18 gauge s.s. with a rating of 700 pounds per square foot with non-skid floor strips. All panels shall have a ten-year guarantee and be installed with a watertight seal. Provide 4" s.s. high coved base molding at all exposed exterior and interior walls securely anchored and sealed as required. Provide ceiling hangers and structural supports as required.
- B. If floorless construction is required refer to the Construction Manager scope of work. Provide 4" urethane insulation and vapor barriers for sub floor and tile floor. Provide coved floor screeds below wall panels anchored to red wood vapor barriers which shall extend up thru and 1/8" above the level of the finished floor, 6 mil polyethylene vapor barrier, etc. as per the manufacturers standard requirements. Supply and coordinate installation of walk-ins to assure proper fit of floor recesses, sizes, tile, insulation, grout, vapor barriers, drainage, etc.
- C. Provide one surface mounted LED light fixture mounted above door for the first 50 square feet of floor space and one additional ceiling mounted fixture as shown on the plans. Lighting shall provide a minimum of 35 foot candles at 36" above floor. The light above door shall be inter-wired to switch and

junction box, but all additional lights shall be installed and wired in field with conduit located outside the compartments.

- D. Provide 36" by 78" in-fitting doors with magnetic gaskets, three C.P. cam lift hinges, s.s. front, 24" high interior aluminum tread plate kick plate, cylinder locks, and automatic door closer. Doors shall be mounted in reinforced panel with FRP or s.s. door jambs with thermal break and thermostatically controlled heater strip, s.s. heavy gauge heated threshold, safety release, digital thermometer, and virgin plastic full width door curtains mounted 6" above door header. Provide non heated relief air vents for cooler and inter-wired heated vents for all freezer compartments mounted above doors.
- E. Provide removable closure trim with concealed fasteners of same appearance as walk-in exterior from box to all adjacent building walls and ceilings. Provide access panels and louvers as required for service.
- F. Refrigeration systems shall be complete with items as specified or as required to provide a first class system. Should any dispute arise as to the quality of equipment or workmanship, the decision shall rest with the Consultant.
- G. Hermetic or scroll compressors shall be mounted on anti-noise, anti-vibration blocks, and be factory mounted in welded angle iron frame and housing with support rails, metal curbs, timed defrost, factory installed control panel, pilot light, NEMA rated disconnects and starter, etc. Compressors to be factory pre-connected for final water and electrical connections. Verify that proper ventilation of compressors is obtained.
- H. Provide coil and/or compressor condensate drain lines as required and shown on the drawings. Provide drain lines terminating with trap over floor drain where shown. Drain lines to be neatly insulated with material similar to Armaflex. Any drain line run through a freezer compartment shall also have a heater coil neatly wrapped over the line, prewired and shall operate continuously. No drain piping shall interfere with shelving within the compartment nor exit through the front of a compartment. All piping shall be concealed where possible.
- I. Coils shall have timed defrost and immersion type thermostat and be connected to compressors by equipment supplier using type "L" copper tubing soldered using industry acceptable refrigerant. Refrigeration lines shall be insulated in same manner and materials as coil and drain lines and shall be concealed where possible.
- J. Provide refrigeration system with expansion valves, pressure controls, strainers, solenoid valves, liquid dryers, adjustable room thermostats, hangers, king and queen valves, heat exchangers, oil separators, pump-down solenoid, low ambient controls, crankcase heater, outdoor shroud, shut-off valves, sleeves, sight glass with moisture indicator and all other items necessary for a complete system.
- K. All electrical components within each compartment shall be pre-wired by supplier to junction box on exterior top of compartment. Make final connections and inter-wire to lights and from walk-in coils to compressor for timed defrost in conduit as required.
- L. After final connections, evacuate, pressure test, charge, start up and operate system for a period of three (3) days and make all necessary adjustment of controls as required. Operate coolers at 35 degrees and freezers at -5 degrees unless noted on plans. Provide manufacturers five-year compressor warranties and one-year free service available within 12 hour notification.

2.31 WATER INLETS:

- A. Water inlet locations shall be located above positive water level to prevent syphoning of liquid into the water system.
- B. Wherever conditions require water inlet placed below water level, a suitable pressure type syphon breaker or double check valve shall be placed on fixture to form a part of same to prevent back syphoning.
- C. Exposed syphon breakers shall be chrome plated units with chrome plated piping and slip flanges where exposed.

2.32 MECHANICAL/ELECTRICAL MATERIALS REQUIRED IN FOOD SERVICE CONTRACT:

- A. The equipment supplier shall include materials properly labelled and packaged as follows:
- B. PLUMBING APPURTENANCES:
 - 1. Check requirements for gas, water, steam, etc. on job before ordering equipment. Information shown on drawings or specifications does not relieve contractor of this responsibility.
 - 2. Faucets, pre-rinse units, lever wastes, vacuum breakers, to be as manufactured as described in the item specifications.
 - 3. Except as otherwise specified, provide each sink compartment with deck type or backsplash type faucet with minimum 12" swing spout soft flow. Where multiple sink compartments are provided, faucets may be located between compartments.
 - 4. C.P. brass overflow fittings shall be 1-1/2" tubing fully connected to sinks at factory with lever handle quick opening wastes with tailpieces on each sink compartment.
 - 5. Provide all solenoids, C.P. atmospheric or pressure type vacuum breakers with C.P. stems above counter tops, shock absorbers, check valves, mixing valves, gas regulators, etc. required by code or for proper operation of equipment with mounting brackets as required. Valves shall be installed where required, accessible and convenient to the operator.
 - 6. Provide swivel gas hoses assemblies 36" or of proper length as required with quick disconnect, ball valve, caster floor locks and 3000 pound coiled restraining device, and wall brackets.
 - 7. All steam equipment shall have valves provided with heat resistant handles, traps, gauges, etc. as required for proper operation

C. ELECTRICAL APPURTENANCES:

- 1. Check voltage on job before ordering equipment. Information shown on drawings or specifications does not relieve contractors of this responsibility.
- 2. Except where noted under item specifications, current characteristics for motors 3/4 HP or less, solenoid valves and lighting shall be 120 volt, single phase, 60 cycle, A.C. Unless otherwise noted under item specifications, motors 3/4 HP and over shall be wound for 208/240 volts, three phase, 60 cycle, A.C.
- 3. Provide 120 volt control circuit on all equipment that operates on voltages on or over 208 volt. All equipment requiring 120 volt control circuits (120/480 volt, 120/208 volt, etc.) shall have transformers

pre-wired on equipment.

4. Cords and plugs and receptacles for equipment shall be three or four wire all rubber coiled retractable style cord with ground as required and match receptacles provided and as best suited for the equipment. Units shall be mounted in NEMA type enclosures as per code with s.s. faceplates and boxes where receptacles are exposed.
5. Thermostats, unless otherwise noted on plans or in the item specifications, shall be provided at all equipment (bain-marie, urns, dish machines, hot food table, warming cabinets, etc.) with thermostatic control.
6. Heating elements to be of voltage and phase as specified or as required to suit job.
7. Controls, thermostats, switches, contactors, low water cut off, light fixtures and bulbs, etc., necessary for the installation and proper operation of equipment shall be furnished as required along with all starters and/or motor control switches for the proper function of the equipment specified. Controls mounted on vertical surfaces shall be recessed.
8. Controls that are an integral part of equipment shall be factory installed. Controls which are to be separately mounted shall be shipped loose for field installation. Coordinate all field installation so as to not interfere with access and/or operation.
9. Provide properly sized magnetic starters line voltage type with thermal overload relays and reset for normal operation by automatic control or pushbutton station for 208/240 volt control. Enclosures shall be general purpose NEMA type 1, A.C. voltage, unless located outdoors which will require a waterproof enclosure. Remote control motors shall have magnetic starters.
10. Disconnect switches shall be type non-fusible, single throw, heavy duty industrial, quick make, quick break. Circuit breakers may be used in lieu of above disconnects as per code.
11. Provide equipment with required internal wiring between elements, switches, motors, receptacles, starters, etc. complete to a junction box. Disconnect, starter, etc. as required and are to be "left ready" for final connections. All control circuits shall be 120 volt to ground.

PART 3 - GENERAL SPECIFICATIONS - EXECUTION

3.01 INSTALLATION AND MATERIALS:

- A. All work required under this section shall be installed by the proper trades having jurisdiction in this area concurrent with job progress, Construction manager scope of work and related field conditions. Such installation shall be under the direction of a competent supervisor. A site inspection is recommended prior to bidding if applicable.
- B. Provide for the conveyance, uncrating, erection, assembling, setting in place, trim, cutting of holes and ferrules in equipment for piping, drains, electrical outlets, etc.
- A. Coordinate installation with all trades, repairing of any damage done to equipment during installation, removal of debris created by installation, startup, testing, and cleaning of all equipment (new, existing, or relocated).
- D. Where necessary to move equipment to make final connections, coordinate and assist all in moving

equipment and be on the job to carefully level and adjust equipment as the connections are being made. During installation, coordinate with all trades on connection details and be responsible for meeting the individual equipment manufacturer's connection requirements. Report any infractions of installation procedure in written form.

- E. The fit of all equipment as it joins all walls, floors, and corners shall be tight (within 1/4") to adjacent walls, seal all equipment with NSF approved clear sealing compound and/or s.s. trim molding of proper size with concealed fasteners. Inspect the site and advise in writing and/or on shop drawings all necessary building requirements door sizes, etc. to receive the equipment and assure accuracy of fit and installation.
- F. All cabinet bases and pieces of equipment which are to be set on bases or machine platforms shall be set into a sealing compound of color to match the tile mortar. Enclosures, backsplashes, and turn-backs to wall shall be pressed into a ribbon of the same material with the excess wiped out to a radius fillet. Where necessary, and to eliminate shifting and the subsequent breaking of this seal, item shall be anchored to floor and wall with suitable masonry anchors. All equipment with utility connections (island style sinks, dish tables, etc.) shall also be anchored to floor with s.s. flange type feet.
- G. All equipment and materials shall be new, of prime quality, full gauge thickness of compositions indicated by names or abbreviations stated in itemized specifications.
- H. Equipment batteries of one manufacturer are to be pre-fitted at the factory and provide photographic proof of such work.
- I. If equipment is noted as relocated or removed during the construction period, said equipment shall be disconnected and be re-connected as directed in the Construction Manager scope of work and removed and stored unless noted in the item specifications. Coordinate and supervise this work and label equipment for reuse. Reinstall and clean equipment as per the plans and specifications. Existing equipment not scheduled for reuse shall be removed as directed in the Construction Manager scope of work.

3.02 LIMIT OF OTHER SUBCONTRACTORS/TRADES RESPONSIBILITY:

A. Hood Connections:

- 1. Note that kitchen grease and/or dishwasher hoods and ducts may or may not be furnished as part of this contract. Refer to the plans and item specifications. Make connections to hood and connect to exhaust fan and make up air unit as directed in the Construction Manager scope of work. All ductwork shall have welded and/or watertight joints. All roof holes, flashing, structural support, fire rating, and final connections are to be provided as directed in the Construction Manager scope of work.

B. Plumbing:

- 1. Provide rough-ins and piping with stop valves, elbows, nipples, couplers, traps, waste vents, gas regulators, for water, steam, gas, etc. and make final connections to the equipment as directed in the Construction Manager scope of work.
- 2. Install equipment accessories (faucets, lever wastes, solenoids, valves, gas hoses, nipples, etc.) as directed in the Construction Manager scope of work.

3. Provide water heater and janitors sink unless otherwise indicated on the plans as directed in the Construction Manager scope of work.
4. Disconnect and reconnect relocated equipment if applicable as directed in the Construction Manager scope of work.

C. Electrical:

1. Provide rough-ins, controls, panels, switches, wall receptacles to match equipment cords and plugs, starters, junction boxes, canopy light and fan switches, conduit, wiring, wall outlets, disconnects, etc. and make final connections to the equipment as directed in the Construction Manager scope of work.
2. Install equipment accessories (cords, light switches, drop-in equipment switches, wiring harnesses, disconnect switches, tracks for heat lamps, etc.) as required by code and as directed in the Construction Manager scope of work.
3. Disconnect and reconnect relocated equipment as directed in the Construction Manager scope of work.

D. General:

1. All concrete platforms, bases, etc. will be provided as directed in the Construction Manager scope of work. Grouting of drip pans and/or floor troughs to be installed as directed in the Construction Manager scope of work.
2. All required holes and recesses for piping and ducts will be coordinated with all trades and as directed in the Construction Manager scope of work. Provide location, size, etc. This information is to be provided in adequate time to be incorporated in the work.
3. Unless stated in the item specifications, provide all floor recesses, insulated sub floors, tile floors and vapor barriers for walk-ins as noted in the plans and as directed in the Construction Manager scope of work.
4. If applicable, remove relocated equipment from kitchen and store in adjacent area during Kitchen construction period. Coordinate removal, inspection, storage, labeling, etc. of equipment. Reinstall relocated equipment as per plan after construction is completed as directed in the Construction Manager scope of work.
5. Provide fire rated walls in kitchen for cooking equipment exhaust hoods and non-combustible materials within 18" of top of hood or as required by fire codes as directed in the Construction Manager scope of work.

3.03 TESTING:

- A. After installation and hook, inspect, start up, clean, adjust and test all equipment under operating conditions for 48 hours prior to acceptance by Owner. If inspection or test shows defects, such defects shall be corrected and inspection and test repeated. Certify in writing that all equipment is performing in full compliance with the plans and specifications.

3.04 DEMONSTRATION:

- A. After utility connections to the equipment is completed, schedule and conduct the inspection and start up and final test of equipment prior to final inspection. Schedule the demonstration with the Owner and perform the demonstration in the presence of the Owner and/or their authorized representative with a minimum of seven days notification to owner.
- B. Before final inspection, remove any and all protective covering from his work and give all parts of all equipment a thorough cleaning and servicing, leaving items free from defects and remove trash from premises.
- C. Provide required competent personnel for two eight-hour periods as instructors to operating and maintenance personnel on the safe and proper operation and maintenance of all equipment. Provide additional instructions up to eight additional hours during the one-year guarantee period as requested by the Owner.
- D. Present all maintenance manuals and as built drawings as previously specified or requested by Consultant.

3.05 FINAL INSPECTION AND PUNCH LIST:

- A. After installation is completed and tested, notify the Consultant who will review all equipment and submit a repair or punch list of all items that are not in compliance with the documents. All items shall be completed immediately and not to exceed 14 days unless written notice is submitted and approved.

3.06 SCHEDULE OF EQUIPMENT:

- A. The following specifications refer to items of food service equipment on the drawings which shall form a part of these specifications and are binding as written herein, and will indicate the required quantity, size, etc. of each item.

Item Specifications:

Item #101 – Walk-in Cooler & Freezer - Qty. of 1

Base Manufacturer: Kolpak Co. Base Model: R-Series

Alternate Manufacturer: Norlake Co.

Alternate Manufacturer: Bally Co.

Alternate Manufacturer: American Panel Co.

Alternate Manufacturer: Imperial/Brown Co.

Alternate Manufacturer: Tafco Co.

Minimum specifications:

- 1. NSF walk-in sized approximately 17'-0" by 11'-8" and shape as shown on plan by 8'-4" high with aluminum interior and stainless steel exposed exterior finish, aluminum interior ceilings, door heaters, gaskets, pressure relief port, heated door threshold, etc. for all compartments. Provide digital thermometer with audio / visual alarm system with dry contactors to connect to building management system for all compartments.
- 2. Trades to furnish and install insulated sub-floor and vapor barrier as shown on plans. Minimum insulation value of the floor shall be R-28.
- 3. Provide standard 34" wide flush mount doors with 18" by 24" heated triple pane viewport, stainless steel front, 24" high aluminum tread-plate interior kick-plate, two cam lift hinges, chrome plated hardware, and have same 4" thick foamed in place UL-25 flame spread rated urethane insulation as walls and ceiling. Provide Curtron Co. Polar Pro USDA Polar Grade self-closing hinged vinyl door curtain with .120" clear door

- panels and stainless-steel mounting hardware.
4. Furnish one LED light mounted over the door and extra 48" LED lights inter-wired to switch per plan. All lighting shall have a 40 Lumens per Watt efficacy or more including ballast loss.
 5. Joints between walk-in and building walls and ceiling shall be closed with filler strips of same appearance as exterior of box with service access panels as required.
 6. Provide one UL listed 208 Volt 3 Phase system for the cooler and one 208 Volt 3 Phase system for the freezer. Provide Copeland compressors piped to BTU matched Bohn low profile end mount coils. The Freezer section shall have 208 Volt 1 Phase timed electric defrost coil. The Cooler section shall have 120 Volt air defrost coil. Both coils shall be furnished with electronically commutated motors, remote mounted (shipped loose) weather proof time clock for timed defrost, thermostat, solenoid, "P"-trap and expansion valves mounted and wired.
 7. The air-cooled compressors shall be factory assembled and mounted on heavy duty steel base and be placed on roof with outdoor package in aluminum housing with hinged shroud, head pressure control with flood back, crankcase heater, sight glass, frame mounted dual pressure control, oversize condenser, drier, suction line filter, suction vibration eliminator, oversize receiver with total pump down capacity and king and queen service valves. Provide a pre-wired NEMA-3 control panel with industrial grade fused disconnect, terminal block, magnetic starters, circuit breakers and contactors, defrost timer and pump down switch.
 8. Provide approximately 20'-0" of field piped and pressure tested insulated refrigeration lines per compartment to connect compressors to coils. Provide refrigeration with piping, controls, drain lines and heat tape, etc.
 9. Provide a 5 Year warranty on compressors and 1 Year free service plan as per G.S.
 10. Final connections, structural support, etc. are by Trades.
 11. Proposed use of this walk-in shall be standard school holding, mixed storage & prep.

Item #102 - Utility Cart - Qty. of 2

Base Manufacturer: Cambro Co.

Base Model: SC337S110

Alternate Manufacturer: Rubbermaid Co.

Minimum specifications:

1. Unit to be black polyethylene construction.
2. Three shelves.
3. Heavy duty swivel casters.
4. 600 lbs. capacity or more.

Item #103 - Shelving - Qty. of 21

Base Manufacturer: Inter-Metro Co.

Base Model: MAX4-1836G

Alternate Manufacturer: None

Minimum specifications:

1. Provide polymer unit size and shape as per plan with four posts and shelves per section.
2. Units located in the walk-in cooler and freezer shall have four 63" to 66" posts and the remaining shelving shall have four 71" to 74" posts per section.
3. Post connectors, traverses and four vented shelf plates.
4. Two swivel casters and two locking casters.

Item #104 - Dunnage Rack - Qty. of 2

Base Manufacturer: Inter-metro Co.

Base Model: HP-PD

Alternate Manufacturer: Eagle Co.

Alternate Manufacturer: Cambro Co.

Minimum specifications:

1. Furnish and install polymer unit size and shape as per plan.
2. Connector strips.

Item #105 - Pan Rack - Qty. of 1

Base Manufacturer: New Age Co. Base Model: 1335-PS
Alternate Manufacturer: Channel Co.
Alternate Manufacturer: Lakeside Co.
Alternate Manufacturer: Advance Tabco Co.

Minimum specifications:

1. Provide fully welded 64" high aluminum rack with pan stops.
2. Unit to accommodate eighteen 18" by 26" sheet pans or thirty-six 12" by 20" 2.5" deep steam table pans on "Universal Angles".
3. Two 5" heavy duty swivel casters and two 5" heavy duty locking swivel casters.

Item #106 – Spare Number

Item #107 - Fire Protection System - Qty. of 1

Base Manufacturer: Pyro-Chem Co. Base Model: Kitchen Knight II
Alternate Manufacturer: Ansul Co.
Alternate Manufacturer: Range Guard Co.
Alternate Manufacturer: Kidde Co.
Alternate Manufacturer: Amerex Co.

Minimum specifications:

1. Furnish and install a pre-engineered wet chemical fire detection and suppression system, properly sized, to protect the hood, duct, plenum, and surface appliances. The system shall be installed in accordance with NFPA Standard 17A and 96 and meet UL 300. The installation shall also comply with all local and/or state codes and standards.
2. The cylinder and controls shall be housed in approved stainless-steel cabinet and be mounted as shown on plans. The system shall be capable of both automatic and manual operation with a remote mechanical manual pull station (54" above floor) located in the path of egress, a minimum of 10 feet and a maximum of 20 feet from the hood. Provide fusible link detectors properly located and temperature rated per manufacturer's specifications for automatic detection.
3. Provide and locate piping and required nozzles for duct, plenum, and surface appliance protection as per manufacturer's specifications. Provide concealed piping where possible with non-exposed piping and fittings shall be black pipe and stainless steel or chrome-plated or chrome sleeved where exposed (no galvanized piping). No horizontal supply piping greater than 6 inches from a T is allowed under the hood. All hood penetrations to be accomplished by UL listed "Seal-tite" fittings.
4. Provide a mechanical gas shut-off valve to match the size of the main gas line feed to the cooking equipment. The valve will vary in size and must be verified and provided per the plumbing plans. The valve shall be installed in an accessible location within 20 feet of the hood by the Mechanical Trades. All Trades to coordinate and verify exact location in field or per the Plumbing plans.
5. Provide 2 double pull double throw micro-switches in the control head and an approved electrical box mounted to Stainless Steel Cabinet for connections. No wire connections are to be made inside the control cabinet. Upon activation of system the following shall occur: All electrical under the hood, including wall

- outlets, are de-activated. The hood exhaust fan shall continue to operate, and the hood make up air unit shall shut down.
6. Provide a 120 Volt horn/strobe mounted on fire cabinet to activate upon discharge or wire into building fire alarm system as required. Complete all required pressure/puff tests, and system documentation as required by the local Fire Marshall.
 7. Provide and install 1 Class K portable fire extinguisher for the kitchen. Mount in location coordinated with the Owner and/or Contractor.

Item #108 – Portable Table - Qty. of 2

Base Manufacturer: Eagle Metalmasters Co. Base Model: YJLAN30-SE
Alternate Manufacturer: Approved Manufacturer as listed in Section 2.03 of the General Specifications.

Minimum specifications:

1. Furnish and install 14 Gauge 304 stainless steel table as per G.S. size and shape as per plan by 34" high.
2. Stainless steel legs and gussets.
3. Sound deadened top.
4. One 20" by 20" by 5" deep roller bearing drawer assembly with stainless-steel or plastic insert and an 18" by 24" white poly cutting board mounted below drawer.
5. 16 Gauge stainless steel under shelf.
6. 5" heavy duty locking casters.

Item #201 – Trash Bin – Qty. of 2 - By Owner

Item #202 – Prep Table - Qty. of 1

Base Manufacturer: Eagle Metalmasters Co. Base Model: YJLAN30-SEM-BS
Alternate Manufacturer: Approved Manufacturer as listed in Section 2.03 of the General Specifications

Minimum specifications:

1. 14 Gauge 304 stainless steel table as per G.S. size and shape as per plan by 34" high with 6" backsplash.
2. Stainless steel legs, gussets, and adjustable bullet feet.
3. Stainless steel sound deadened top with marine edge.
4. 16 Gauge stainless steel under shelf.
5. One 20" by 20" by 5" deep roller bearing drawer assembly with stainless-steel or plastic insert and an 18" by 24" white poly cutting board mounted below drawer.
6. One 18" by 24" by 14" deep coved corner sink with T&S Co. B-3990-01 modular waste drain with connected overflow, and T&S Co. or Krowne Co. 5F-8WLS12 faucet with rear connector kit.
7. 10" deep stainless steel over shelf mounted 24" above table surface as shown on plan.
8. Everpure Co. or 3M Co. filter model # QC7I Single 4FC with mounting bracket to mount to wall.

Item #202A – Prep Table Filter – Qty. of 1 – Included in item #202.

Item #203 – Can Opener – Qty. of 1

Base Manufacturer: Edlund Co. Base Model: S-11CL
Alternate Manufacturer: Nemco Co.

Minimum specifications:

1. Stainless steel construction.
2. Clamp base with marine edge adapter.

Item #204 – Cook’s Table - Qty. of 1

Base Manufacturer: Eagle Metalmasters Co.

Base Model: YJРАН60SEM

Alternate Manufacturer: Approved Manufacturer as listed in Section 2.03 of the General Specifications.

Minimum specifications:

1. Provide 14 Gauge 304 stainless steel table size and shape as per plan by 34" high.
2. Stainless steel legs, gussets, and a minimum of two adjustable flanged feet.
3. Stainless steel sound deadened top with marine edge.
4. 16 Gauge stainless steel under shelf.
5. Two 20" by 20" by 5" deep three tier roller bearing drawer assemblies with stainless-steel or plastic inserts.
6. One 16" by 20" by 14" deep "Coved" corner sink with T&S Co. B-3990-01 modular waste drain with connected overflows, T&S Co. or Krowne Co. 5F-8DLX12 faucet.
7. Provide full length reinforced 14 Gauge stainless steel over shelf mounted on tubular stainless-steel uprights and centered on table.
8. Everpure Co. or 3M Co. filter model # QC71 Single 4FC with mounting bracket to mount to underside of the tabletop.

Item #204A – Cook’s Table Filter – Qty. of 1 – Included in item #204.

Item #301 - Hood & Ventilation System - Qty. of 1

Base Manufacturer: Accurex Co.

Base Model: XXEW-S

Alternate Manufacturer: Z-Vent Co.

Alternate Manufacturer: Duo-Aire Co.

Minimum specifications:

1. Furnish and install 24" high single shell 18 Gauge 430 series stainless steel (where exposed) hood per the General Specifications size and shape per plan to cover all cooking equipment and be mounted 6'-8" above floor with open capture ends, duct collars, grease cups and gutter, recessed 3K LED lights factory wired to junction box, hanger rods and brackets and insulated rear standoff. FSEC shall furnish and install a 20 Gauge stainless steel wall panel mounted from bottom edge of hood to top of coved base wall tile with concealed fasteners and trim strips.
2. System shall be built in accordance with and bear the seal of NFPA, NSF, and UL with 20" high UL listed X-Tractor stainless-steel filters running full length of hood.
3. Provide remote wall mounted variable volume control panel and HMI interface (two gang electrical junction box provided by the Trades) with fan and light switch, variable frequency drives, CAT 5 cable (installed by Trades), room temperature sensor and cellular on-line monitoring capability. Control panel to be variable volume and shall modulate exhaust fan and MUA speed during the cooking operation to maximize energy savings. Controls to include cloud-based building management system with BMS interlock capabilities.
4. Provide stainless steel closure panels from top of hood to ceiling and insulated full height vertical stainless steel end panels with floor mounting legs and gas line cutout.
5. Mounted on front of hood shall be a 6" high stainless steel supply plenum with two layers of perforated stainless steel. Supply plenum to be an air curtain type with plenum duct inlets and volume damper. The size of the supply plenum shall be determined by the discharge velocity at the bottom of the plenum which shall not exceed 250 FPM.

6. Provide UL listed 208 Volt 3 Phase make-up air roof top package with direct drive motor and control panel with starters and NEMA rated weatherproof disconnects. Make up air unit to be direct gas-fired tempered makeup air unit with the capability of a 70 Degree minimum temperature rise equipped with full modulating gas train, thermostat, motorized inlet damper, fire damper, heavy gauge steel base, watertight cabinet with access doors, extended intake air cabinet with filters and bird screens, and all accessories as required for a complete system. MUA to include DX Cooling optimized for 100% OA. DX coil module, condensers, thermal expansion valves, and filter/dryer kits provided and pre-piped and charged by the factory. Condensers to be located integral to the MUA unit requiring no additional roof footprint. Condensers to be High Efficiency Nominal 14 SEER rated. All equipment shall be sized for CFM as shown on the plans and shall conform to all applicable codes.
7. Provide UL listed 208 Volt 3 Phase direct drive upblast exhaust fan with hinged curb with grease collection device, control panel with starters and NEMA rated weatherproof disconnects and all accessories as required for a complete system. All equipment shall be sized for CFM as shown on the plans and shall conform to all applicable codes.
8. Hood shall be designed to automatically activate exhaust fan whenever cooking operation occurs. The activation of the exhaust fan shall occur through an interlock with cooking appliances, by means of heat sensors or by means of other approved methods.
9. Make up Air ductwork shall conform with all applicable codes. The FSEC shall provide rigid stitch welded metal makeup air ductwork (flex-duct will not be acceptable) constructed as per SMACNA requirements. If applicable, all external make up air ductwork shall be internally insulated, watertight, provided with proper support and fasteners and shall be constructed as per minimum SMACNA requirements.
10. Exhaust ductwork shall conform with all applicable codes. The FSEC shall provide continuously welded 16 Gauge black iron exhaust ductwork or UL listed prefabricated factory duct work. All exhaust duct work shall conform to all building requirements with all dimensions subject to verification in the field and shall be furnished with cleanouts, access panels, etc. and constructed as a light-tight and water-tight system. If applicable, all external exhaust ductwork shall be of double wall construction to accommodate 2 Hour fire blanket and painted to match building exterior or field wrapped with a galvanized metal skin and painted to match the building exterior. External exhaust duct work shall be provided with proper support and fasteners.
11. Hood and exhaust ductwork shall be 2 Hour fire rated by the FSEC.
12. The Trades shall provide wiring to inter-wire lights, control panel, HMI interface, heat sensor, exhaust fan and makeup air unit to hood control panel to interlock as required by code. This wiring shall be installed by the trades in conduit as required.
13. System is to be factory commissioned, tested and balanced as required for proper operation by FSEC with written report to Consultant, Architect and/or Owner.
14. Roof openings, fire rated walls within 18" of hood, structural support, and final connections shall be by the trades.

Item #302 - Range - Qty. of 1

Base Manufacturer: Southbend Co.

Base Model: 4241E

Alternate Manufacturer: Vulcan Co.

Alternate Manufacturer: Garland Co.

Alternate Manufacturer: Montague Co.

Minimum specifications:

1. Furnish and install unit with four non-clog 33,000 BTU burners.
2. Standard full-size oven.
3. Stainless steel flue riser with removable slotted over shelf.
4. Stainless steel front and sides.
5. 5" heavy duty locking casters.
6. 3/4" rear gas connection.

7. Dormont Co. or T&S Co. 1675-KIT-S-PS swivel gas hose with quick disconnect, gas valve, posi-sets, and restraint line.

Item #303 - Convection Oven - Qty. of 1

Base Manufacturer: Southbend Co.

Base Model: GS-25-SC

Alternate Manufacturer: Vulcan Co.

Alternate Manufacturer: Garland Co.

Alternate Manufacturer: Montague Co.

Minimum specifications:

1. Double deck standard depth.
2. Gas fired unit that operates on 120 Volt with cords and plugs.
3. Stainless steel front and sides.
4. Door windows.
5. Flue deflector.
6. 5" heavy duty locking casters.
7. Two speed motors with solid state control panel with standard controls.
8. Two Dormont Co. or T&S Co. 1675-KIT-S-PS swivel gas hose with quick disconnect, gas valve, posi-sets and restraint line.

Item #304 - Refrigerator - Qty. of 1

Base Manufacturer: Traulsen Co.

Base Model: G10011

Alternate Manufacturer: Continental Co.

Alternate Manufacturer: Victory Co.

Alternate Manufacturer: True Co.

Minimum specifications:

1. Unit to operate on 120 Volt with cord and plug and have top mount compressor.
2. Stainless steel exterior front and left door hinging.
3. Digital thermometer.
4. Five coated shelves.
5. 5" heavy duty locking casters.
6. Provide a 5 Year warranty on compressor and 1 Year free service plan as per G.S.

Item #401 – Hot Food Table – Qty. of 1

Base Manufacturer: LTI Co.

Base Model: EF4-CPA Modified

Alternate Manufacturer: Randell Co.

Alternate Manufacturer: Delfield Co.

Alternate Manufacturer: Duke Co.

Minimum specifications:

1. Provide 34" high unit size and shape per plan that operates on 120/208 volt with cord and plug.
2. Stainless steel top, latching assembly and stainless steel undershelf.
3. Wet or dry hot food wells with drains, drain manifold with individual and master valves. Drain valves to be easily accessible from the employee side of the counter.
4. Open rear with plastic laminate front and end panels in color as selected by the Architect.
5. One 12" solid folding inverted "V" style stainless steel tray slide mounted 28" above finished floor and one 8"

- stainless steel solid folding work shelf mounted on rear.
6. Set of 5" heavy duty locking casters.
 7. Furnish and install BSI Co. Premier Brass Co. or counter manufacturer Model #ZG9930 sneeze guard with brushed aluminum uprights and top mounted hardware, slim/stealth heat lamp, light, glass top, ends, and adjustable front. Unit shall meet current NSF standards. Center posts not acceptable.
 8. Sneeze guard assembly and hot food table to be inter-wired to a common point to provide one electrical connection for entire unit and be supplied with a cord and plug.
 9. Dormont Co. or T&S Co. W50B2Q-36 uncoated flexible water hose with two LFW50QD 2-way quick disconnects.
 10. Fill faucet.
 11. Drain tailpiece and shut off valve, garden style of drain connection is not acceptable.

Item #402 – Utility Counter – Qty. of 1

Base Manufacturer: LTI Co. Base Model: Flex Line
Alternate Manufacturer: Randell Co.
Alternate Manufacturer: Delfield Co.
Alternate Manufacturer: Duke Co.

Minimum specifications:

1. Provide 30" high unit as per plan.
2. Stainless steel top with latching assembly.
3. Plastic laminate front and end panels in color as selected by the Architect.
4. One 12" solid folding inverted "V" style stainless steel tray slide mounted 28" above finished floor.
5. Set of 5" heavy duty locking casters.
6. Stainless steel undershelf where possible.

Item #403 – Cold Food Table – Qty. of 1

Base Manufacturer: LTI Co. Base Model: 60-CFMA Modified
Alternate Manufacturer: Randell Co.
Alternate Manufacturer: Delfield Co.
Alternate Manufacturer: Duke Co.

Minimum specifications:

1. Provide 30" high unit as per plan with NSF-7 drop-in self-contained refrigerated cold pan with drain and shut off valve, on/off switch, and pan adapter bars. Unit shall operate on 120 Volt with cord and plug.
2. Stainless steel top, latching assembly and stainless-steel undershelf.
3. Plastic laminate front and end panels in color as selected by the Architect.
4. Two 12" solid folding inverted "V" style stainless steel tray slide as shown on plan mounted 28" above finished floor.
5. Set of 5" heavy duty locking casters.
6. Furnish and install BSI Co. Premier Brass Co. or counter manufacturer Model #ZG9930-2 sneeze guard with brushed aluminum uprights and top mounted hardware, light, glass top, ends, and adjustable front. Unit shall meet current NSF standards. Center posts not acceptable.
7. Sneeze guard assembly and cold food table to be inter-wired to a common point to provide one electrical connection for entire unit and be supplied with a cord and plug.
8. Garden hose hook style of drain connection is not acceptable.

Item #404 - Microwave Oven - Qty. of 1

Base Manufacturer: Panasonic Co.

Base Model: NE-1025

Alternate Manufacturer: Amana Co.

Alternate Manufacturer: Sharp Co.

Minimum specifications:

1. Unit shall operate on 120 volt with cord and plug.
2. Unit to be mounted on an Eagle Co. MWS-1824.

Item #405 - Milk Cooler - Qty. of 1

Base Manufacturer: Beverage Air Co.

Base Model: SMF58HC-1-S

Alternate Manufacturer: True Co.

Alternate Manufacturer: Continental Co.

Minimum specifications:

1. Self-contained forced air unit that operates on 120 Volt with cord and plug.
2. Dial thermometer.
3. Lid locking device.
4. Stainless steel exterior.
5. Heavy duty locking casters.

Item #406 – Cashier Counter – Qty. of 1

Base Manufacturer: LTI Co.

Base Model: Flex Line

Alternate Manufacturer: Randell Co.

Alternate Manufacturer: Delfield Co.

Alternate Manufacturer: Duke Co.

Minimum specifications:

1. Counter to be 34" high, size and shape as per plan.
2. Stainless steel top.
3. Plastic laminate front and end panels in color as selected by the Architect.
4. Two 12" solid folding inverted "V" style stainless steel tray slide as shown on plan mounted 28" above finished floor.
5. Provide enclosed base with locking ventilated door at end, one locking cash drawer and stainless steel interior under shelf.
6. Latch assembly.
7. 5" heavy duty locking casters.

Item #407 – Cash Registers / POS – By Owner.

Item #408 – Utility Counter – Qty. of 1

Base Manufacturer: LTI Co.

Base Model: Flex Line

Alternate Manufacturer: Randell Co.

Alternate Manufacturer: Delfield Co.

Alternate Manufacturer: Duke Co.

Minimum specifications:

1. Provide 30" high unit as per plan.
2. Stainless steel top with latching assembly.
3. Plastic laminate front and end panels in color as selected by the Architect.
4. Two 12" solid folding inverted "V" style stainless steel tray slide mounted 28" above finished floor.
5. Set of 5" heavy duty locking casters.
6. Stainless steel undershelf where possible with hinged doors.

Item #409 – Pass Thru Hot Food Cabinet - Qty. of 1

Base Manufacturer: Traulsen Co. Base Model: AHF132WP-FHS
Alternate Manufacturer: Victory Co.
Alternate Manufacturer: Continental Co.
Alternate Manufacturer: True Co.

Minimum specifications:

1. Furnish and install unit that operates on 120/208 Volt 1 Phase with cord and plug.
2. 6" stainless steel legs with adjustable bullet feet.
3. Stainless steel fronts and doors hinged as shown on plans.
4. Aluminum interior, and stainless-steel interior bottom.
5. Digital thermometer.
6. 5 sets of universal angle tray slides on top and three shelves in bottom.
7. Provide stainless steel trim at left and right walls and the header.

Item #501 – Spare Number

Item #502 - Hand Sink - Qty. of 2

Base Manufacturer: Eagle Metalmasters Co. Base Model: HSA-10-LRS
Alternate Manufacturer: Approved Manufacturer as listed in Section 2.03 of the General Specifications

Minimum specifications:

1. 10" X 14" X 5" deep stainless-steel sink with fully welded side splashes.
2. T&S Co. or Krowne Co. 5F-4WWX05.
3. Rear connector kit.
4. Wrist blades.
5. Soap and towel dispenser shall be provided and installed by the Contractor.

Item #503 - Pot Sink - Qty. of 1

Base Manufacturer: Eagle Metalmasters Co. Base Model: YJLAN2660-3-18
Alternate Manufacturer: Approved Manufacturer as listed in Section 2.03 of the General Specifications

Minimum specifications:

1. 14 Gauge 304 unit constructed per G.S. size and shape as per plan by 34" high.
2. 9" backsplash, 21" by 26.5" by 14" deep sinks.
3. Integral drain boards.
4. One T&S Co. or Krowne Co. 5F-8WLS12 faucet, and one 5PR-8W12-C + B-TEE-RGD spray hose unit with faucet and T&S Co. B-3990-01-3X modular waste drains with connected overflows.
5. Stainless steel legs, gussets, and adjustable bullet feet.

6. Area below tables is to be furnished with 16 Gauge removable stainless steel under shelving where possible.
7. Provide 14" coated wire wall shelves and brackets mounted 24" above sink as shown on plans.

END OF SECTION 11 4000 – FOOD SERVICE EQUIPMENT



SUPPLEMENT TO INSTRUCTIONS TO BIDDERS

STANDARD AIA FORMS

The Instructions to Bidders (AIA Document A701-2018 Edition), Articles 1 through 8, and as herein amended or added to, are a part of the Contract Documents, and shall apply to all Contractors, and/or Subcontractors.

ARTICLE 1 – DEFINITIONS Add Subparagraph 1.10 as follows:

1.10 All references made to Owner shall be implied to refer to the Construction Manager.

ARTICLE 3 – BIDDING DOCUMENTS

3.1 Distribution Add Subparagraph 3.1.6 as follows:

3.1.6 The Bidding Documents, including drawings, specifications, and necessary forms, can be examined at the following locations.

- Owen-Ames-Kimball Co. website: www.owen-ames-kimball.com/subcontractors/
- Builders Exchange plan rooms in Grand Rapids, Kalamazoo, Lansing, and Traverse City.

3.2 MODIFICATION OR INTERPRETATION OF BIDDING DOCUMENTS Revise Subparagraph 3.2.2. as follows:
Line 2 shall read "...ten days..."

ARTICLE 4 – BIDDING PROCEDURES

4.1 PREPARATION OF BIDS Revise Subparagraph 4.1.1. and Add Subparagraph 4.1.6.1, 4.1.9 and 4.1.10 as follows:

Bids shall be submitted, in triplicate, on the Bid Proposal Form included within the bidding Documents.

4.1.6.1 Proposals will be accepted for one (1) Bid Category only, or a combination of two (2) or more Categories. If the Bidders wish to have their combined bid considered for separate categories, they must submit separate proposals for the individual category along with their combined bid proposal.

4.1.9 A Pre-Bid Conference will be held in accordance with the following schedule:

Date: May 12th, 2026

Place: Zoom: <https://us06web.zoom.us/j/89898263849>

Time: 10:00am

4.1.10 In accordance with Section 1267 of the Revised School Code each bid must be accompanied by a sworn and notarized Familial Disclosure Statement completed by the bidder disclosing any familial relationship between the Owner or any employee of the Bidder and any member of the District's Board of Education or the Superintendent of the District.

4.2 BID SECURITY Add Subparagraphs 4.2.1.1, 4.2.1.2 and Revise Subparagraph 4.2.3 as follows:

4.2.1.1 Bid security shall be required for each bid tendered.

4.2.1.2 Bid security shall be in the form of either a CERTIFIED or CASHIER'S CHECK on an open and solvent bank or bid bond issued by surety company payable to the Owner in an amount equal to five percent (5%) of the base bid.

4.2.3 Revise Lines 1 and 2 to read "If a surety bond is provided the attorney-in-fact who ...".

4.3 ADDENDA Revise Subparagraph 4.3.3 as follows:

4.3.3 Addenda will be issued no later than two days prior to the date for receipt of Bids except an Addendum withdrawing the request for Bids or one which includes postponement of the date for receipt of Bids.

4.4 MODIFICATION OR WITHDRAWAL OF BIDS Revise Subparagraph 4.4.3 as follows:

4.4.3 After the time and date of receipt of Bids, a bid may not be modified, withdrawn or cancelled by the Bidder for sixty (60) days.

ARTICLE 5 – CONSIDERATION OF BIDS

5.3 ACCEPTANCE OF BID (AWARD) Revise Subparagraph 5.3.2 and add Subparagraph 5.3.4 as follows:

Portage Public Schools, Amberly Elementary School – Bid Package 4 – Page 1 of 27 Addendum 01

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- 5.3.2 Revise Line 1 to read "...right to accept Mandatory and Voluntary Alternates in any order..."
- 5.3.3 Owner reserves the right determine which bidders are considered the lowest qualified bidder and to award to said bidder.
- 5.3.4 After the Owner has awarded the Bid Categories the Construction Manager will prepare and send a Notice of Pending Award to the successful Bidders.

ARTICLE 6 – POST-BID INFORMATION

- 6.1 **CONTRACTOR'S QUALIFICATION STATEMENT** Revise Subparagraph 6.1 as follows:
The Owner, Architect and Construction Manager may make such investigations as they deem necessary to determine the ability of the Bidder to perform the work. The Bidder shall furnish all such information and data for this purpose as the Construction Manager may request within twenty-four (24) hours, including, but not limited to, lists of projects completed, financial statements for the past two (2) years, a current list of work in progress. The Owner reserves the right, based on the advice of the Construction Manager and Architect, to reject any bid if the evidence submitted, or investigation of such Bidder, fails to prove that such Bidder is properly qualified to carry out the obligations of the contract and to complete the work contemplated therein.
- 6.3 **SUBMITTALS** Revise Subparagraph 6.3.1, replace Subparagraphs 6.3.1.1 thru 6.3.1.3 and add Subparagraphs 6.3.1.4 thru 6.3.1.6 as follows:
 - 6.3.1 The Bidder shall within ten (10) days upon issuance of a Notice of Pending Award furnish to the Owner through the Construction Manager the following:
 - 6.3.1.1 The necessary insurance forms as specified in the Bidding Documents.
 - 6.3.1.2 A cost breakdown on the continuation sheets of the "Application and Certificate for Payment", AIA Document G703 showing all major work items, separated by both material and labor.
 - 6.3.1.3 A list of the work which will be performed with the Bidder's own forces, a list of their subcontractors and a list of work that will be performed by the subcontractor's forces.
 - 6.3.1.4 Names of the manufacturer's, products and suppliers of principle items, materials or systems proposed for the work.
 - 6.3.1.5 Schedule information.
 - 6.3.1.6 The Bidder will be notified in writing if any of the above items are not acceptable.

ARTICLE 7 – PERFORMANCE BOND AND PAYMENT BOND

- 7.1 **BOND REQUIREMENTS** Revise Subparagraph 7.1.1 as follows and Delete Subparagraph 7.1.3
- 7.1.1 Revise first sentence to read "For Contracts exceeding \$50,000 the Bidder shall furnish separate Performance and Payment Bonds covering the..."
- 7.2 **TIME OF DELIVERY AND FORM OF BONDS** Delete Subparagraph 7.2.2

ARTICLE 8 – ENUMERATION OF THE PROPOSED CONTRACT DOCUMENTS

- 8.1 Revise sentence to read: Copies of the proposed Contract Documents will be made available to the Awarded Bidder as modified and would include but not limited to the following documents as issued by the Construction Manager.

ARTICLE 9 – INSURANCE

- 9.1 **INSURANCE REQUIREMENTS** The required insurance will name Owen-Ames-Kimball Co., Owner and Architect, along with their respective officers, agents and employees are named as additional insureds for the auto liability and general liability on a primary and non-contributory basis for ongoing and completed operations. The ONLY acceptable endorsement for the additional insureds requirements is ISO form CG 20 37 07 04.
- 9.1.1 Commercial General Liability – ISO Occurrence form CG 20 10 07 04 and CG 20 37 07 04 are the required forms.

ARTICLE 10 – DESCRIPTION OF WORK Add paragraph 10.1 and 10.2

- 10.1 **BID CATEGORIES** Add Subparagraphs 10.1.1, 10.1.1.1, 10.1.1.2, 10.1.1.3 as follows:
 - 10.1.1 Bid Categories have been established to guide Bidders in determining scope of work where trade jurisdiction is not clearly defined. These descriptions are not meant to be all inclusive of work to be included in the Bid. If a conflict in the assignment of work exists between the Bidding Documents and the descriptions of these bid categories, the requirements of the bid category description(s) shall take precedence and the Construction Manager shall immediately be notified of the conflict. Bidders are to familiarize themselves with all Bid Categories.
 - 10.1.1.1 Requirements for a specific Bid Category, trade or contract will generally be described in that portion of the Specifications or Drawings related to that trade or contract. Such requirements may, however, be described in other sections of the contract documents. Contractors will be held responsible for having carefully examined

all drawings and read all divisions of the specifications and all contract documents to avoid omissions or duplications and to ensure a complete job.

10.1.1.2 There is not necessarily a direct relationship between the Bid Category numbers or names and the Specification Division or Section numbers.

10.1.1.3 Unless specifically noted as being furnished only, scopes include the complete installation including materials, labor, equipment, interface with the work of other trades, etc.

10.2 INDEX OF BID CATEGORIES Add paragraph 10.2

Bid Category No.01 – Demolition -Partial Existing Building – (Previously bid & awarded)

Bid Category No. 02 – Earthwork – (Previously bid & awarded)

Bid Category No. 03 – General Trades -Partial Existing Building – (Previously bid & awarded)

Bid Category No. 04 – Concrete Early Foundation – (Previously bid & awarded)

Bid Category No. 05 – Structural Steel – (Previously bid & awarded)

Bid Category No. 06 – Asphalt Paving – (To be bid at a later date)

Bid Category No. 07 – Landscaping – (To be bid at a later date)

Bid Category No. 08 – Irrigation

Bid Category No. 09 – Concrete Flat Work

Bid Category No. 10 – Polished Concrete

Bid Category No. 11 – Precast Structural Concrete

Bid Category No. 12 – Masonry

Bid Category No. 13 – Metals

Bid Category No. 14 – General Trades

Bid Category No. 15 – Metal Wall Panels

Bid Category No. 16 – Roofing

Bid Category No. 17 – Joint Sealants

Bid Category No. 18 – Doors, Frames and Hardware

Bid Category No. 19 – Overhead Doors

Bid Category No. 20 – Aluminum, Glass & Glazing

Bid Category No. 21 – Lath, Plaster, Drywall, Acoustical (LPDA)

Bid Category No. 22 – Flooring

Bid Category No. 23 – Resilient Athletic Flooring

Bid Category No. 24 – Painting

Bid Category No. 25 – Visual Display Units

Bid Category No. 26 – Signage

Bid Category No. 27 – Food Service Equipment

Bid Category No. 28 – Gymnasium Equipment

Bid Category No. 29 – Playground Equipment

Bid Category No. 30 – Window Shades

Bid Category No. 31 – Educational Caseloads

Bid Category No. 32 – Elevators

Bid Category No. 33 – Fire Protection

Bid Category No. 34 – DDC Controls

Bid Category No. 35 – Mechanical/Plumbing

Bid Category No. 36 – Testing and Balancing

Bid Category No. 37 – Commissioning

Bid Category No. 38 – Electrical

Bid Category No. 39 – Audio Visual Systems

Bid Category No. 40 – Public Address and Clock Systems

Bid Category No. 41 – Structured Cabling Systems

Bid Category No. 42 – Access Control and Intercom Entry Systems

10.3 BID CATEGORY DESCRIPTIONS Add paragraph 10.3

Bid Categories have been established to guide Bidders in determining scope of work where trade jurisdiction is not clearly defined. These descriptions are not meant to be all inclusive of work to be included in Bid. Unless specifically noted as being furnished only or install only, scope includes complete installation including all labor, material, equipment, etc.

Bidders are required to familiarize themselves with all Bid Categories and Alternates.

BID CATEGORY NO. 01 - Demolition Partial Existing Building (Previously bid & awarded to Specialized Demolition)

1. Complete site related and demolition work as shown on the drawings and as specified in the following sections:

02 4119X (Existing Building) Selective Demolition

2. See General Comments re: Demolition
3. Complete removal of existing building as indicated. Includes removal of footings and foundations.
4. Portion of existing foundation will be left in place as indicated in the project documents.
5. Applicable fees, permits, inspections, etc. as required for the completion of the work in this bid category.
6. Provide all select building demolition work as described in the project documents, unless noted otherwise.
Including but not limited to walls, ceilings, flooring systems, building slabs, footings and foundations, window systems, roofing, etc. demolition as indicated.
7. Maintain the work areas in safe and weather tight condition throughout demolition operations.
8. Complete demolition plan as required by MIOSHA and furnish to Construction Manager before beginning work.
9. Contractor is to provide their own air personal (MIOSHA) air monitoring.
10. MEP trades will isolate, disconnect, and remove specific systems and equipment.
11. Demolition contractor will be required for demolition and removal of ductwork, piping, and wiring as shown on demolition plans (including, MD and ED drawings) after MEP trades have isolated.
12. Provide required protection in all work areas – barricades, fencing, flagmen, dust protection, etc.
13. Removal of adhesives, mortar and grout behind demolished items when the remaining surface is to be refinished. ie: flooring adhesive, etc.
14. Required to coordinate with General Trades on the temporary enclosure at demolished exterior windows and doors.
15. Provide and install any necessary shoring as needed.
16. Demo/salvage brick for repair of existing window repair. Ref. B/ A101X

Exclude:

1. MEP equipment as called out for resale/reinstall.

BID CATEGORY NO. 02 - EARTHWORK - (Previously bid & awarded to Cripps Fontaine Excavating, Inc)

Include:

1. Complete site related and demolition work as shown on the drawings and as specified in the following sections:

02 4119X (Existing Building) Selective Demolition

31 1000 Site Clearing
31 2000 Earth Moving
32 1216 Asphalt Paving
32 1313 Concrete Paving
32 9200 Turf and Grasses
33 4200 Stormwater Conveyance

2. All necessary surveying and staking for this contractor's work. The Construction Manager will supply building control points and establish a benchmark.
3. Applicable fees, permits, inspections, etc. as required for the completion of the work in this bid category.
4. Sleeves indicated on the drawings.
5. Slab sand pavement subbase construction per details. Gravel subbase to be graded and compacted to +/-0.05 foot. Final grading and proof rolling are the responsibility of asphalt paving or concrete contractor.
This contractor is responsible for compaction and/or correction of any areas that do not pass tests.
6. Responsible for keeping public roads clean of construction traffic dirt and debris.
7. Excavation, bedding materials, piping, structures, backfill, compaction, etc. as required for all underground utility construction, all to within 5 feet of the building unless noted otherwise.
8. Temporary tree protection measures.
9. Strip, stockpile and respread topsoil to machine grade +/-0.10 foot. (Ref: phasing plan CD300 & CD301)
10. Fire protection site piping including the post indicator valve (P.I.V.) and tamper switch.
11. Fire protection contractor to run piping from the P.I.V. to inside the building.
12. Site related demolition, including but not limited to, pavements, site walls, utility structures, sports equipment etc. Return salvaged equipment to Owner.
13. Soil erosion permit and erosion control.

14. Maintain and control grades to facilitate the run-off of site surface water.
15. Supply and maintain barricading as required for the work of this contractor.
16. Excavation, over excavation and controlled fill for building foundations installed by the concrete contractor, including proper disposal, at an off-site location, of unsuitable soils.
17. Provide and maintain access ramps within the building to be used by the structural steel contractor during erection of structural steel and the concrete contractor during the placement of building foundations. Remove upon the Construction Manager's direction.
18. Implement and maintain all BMP's deemed necessary by either the Certified Storm Water Operator or the Agency responsible for jurisdiction of Protection Act 451.
19. Responsible to follow the most stringent requirements between the architectural specifications and those listed in the recommendations of the geotechnical report.
20. Responsible for asphalt as indicated on CD 301 for stage 2 site layout.
21. Responsible for construction lay down areas.
22. Removal and proper disposal of drain field.
23. Responsible for bringing in fire suppression and domestic water 1' above finish floor with flange.
24. Responsible for tree/root removal. Fill, grade, topsoil and seed where removed not in limits of construction.
25. This contractor is responsible to prepare the site for all future work including but not limited to exterior concrete paving, asphalt paving, landscaping and the building pad, foundations, etc.,
26. Per the revised bid form - contractor to provide unit pricing for haul off and disposal of contaminated material to the Autumn Hills Landfill located at 700 56th Avenue, Zeeland Township, MI 49464.

Exclude:

1. Testing will be provided for and paid for by the Owner.
2. Excavation and backfill mechanical and electrical trades.

BID CATEGORY NO. 03 – GENERAL TRADES – Partial Existing Building – (Previously bid & awarded to Hazelhoff Builders, Inc.)

Include:

1. Complete general work as shown on the drawings and as specified in the following sections:
 - 02 4119X Selective Demolition
 - 06 1000X (Existing Building) Rough Carpentry
 - 07 8443X (Existing Building) Joint Firestopping
 - 07 9200X (Existing Building) Joint Sealants
 - 08 1113X (Existing Building) Hollow Metal Doors and Frames
 - 09 2216X (Existing Building) Non-Structural Metal Framing
 - 09 2900X (Existing Building) Gypsum Board
 - 09 5113X (Existing Building) Acoustical Panel Ceilings
 - 09 6500X (Existing Building) Resilient Flooring
 - 09 6513X (Existing Building) Resilient Base and Accessories
 - 09 9114X (Existing Building) Exterior Painting
 - 09 9123X (Existing Building) Interior Painting
2. Take field measurements, onsite surveys and inspections required for the ordering and/or installations of items provided under their scope of work.
3. Furnish and erect all blocking shown on drawings or as specified in Miscellaneous Carpentry. Include all blocking not shown but incidental to your scope of work. Roof sheathings/blocking as shown. Prior to installation schedule a meeting with the roofing contractor to coordinate requirements. Notify the Construction Manager's superintendent of the meeting so that he/she can be in attendance, furnish, for others to install, anchor bolts required for blocking installation.
5. Batt insulations not in partitions/walls.
6. See General Comment re: Access Doors.
7. Protect the tops of casework with cardboard until all work is completed in a given area.
8. See General Comment re: Demolition.
9. Provide and install 2" rigid foam ref: Detail 1/A101X
10. Coordinate with demo contractor. Responsible for providing and installing security temp wall at corridor 9 to deck.
11. Responsible for secure/temp infill of window.

12. Responsible for paint, LPDA, sealants, flooring, doors/frames/hardware, as called out on the drawings of the existing building.
13. Removal/salvage/reinstall of ceiling tiles and grid.
14. Demo and reinstall existing door frames.
15. Responsible for caulking door frames.

Exclude:

1. Temporary weather protection, including temporary partitions and barricades for general access, shall be by the Construction Manager.

BID CATEGORY NO. 04 – CONCRETE (Footings and Foundations) (Previously bid & awarded to Choice Concrete)

Include:

1. Complete concrete (footings and foundations) and related work as shown on the drawings and as specified in the following sections:
 - i. 03 3000 Cast-in-Place Concrete
 - ii. 07 2100 Thermal Insulation
2. Drawings have been issued for procurement of below grade foundation element only. Contractor to coordinate delineation of scope.
3. Provide alternate price for excavation for this contractor's work of footings/foundations.
4. ~~Fine grading and compacting for slabs on grade. The Sitework contractor will establish subgrade +/- 0.05 foot. Additional sand or removal of excess sand required to maintain final grade is this contractor's responsibility.~~
5. Obtain the services of a registered surveyor to provide grade stakes prior to fine grading and prior to the placement of concrete. Any discrepancies of grades or structures must be reported to the Construction Manager prior to placing concrete.
6. Reinforcing steel, as shown.
7. Install embedded items supplied by others.
8. Necessary heat and weather protection for the completion of this contractor's work.
9. All necessary surveying and staking for this contractor's work. The C.M. will supply building control points and establish a benchmark.
10. Perimeter slab/foundation insulations.
11. Shoring and supports required for the completion of this contractor's work.
12. See General Comment re: anchor bolt locations.
13. Responsible for removal of all concrete spoils/washout.
14. Ref: 07 2100 3.2 C1 and 2 for insulation requirements at exterior walls.

Exclude:

1. Testing will be provided by the Owner
2. Light pole bases and flagpole bases.
3. Housekeeping and/or equipment pads.
4. Detail 13/S301 Apron.

BID CATEGORY NO. 05 – Structural Steel (Previously bid & awarded to FCC)

Include:

1. Complete the steel fabrication work as shown on the drawings and as specified in the following sections:
 - 05 1200 Structural Steel Framing
 - 05 2100 Steel Joists Framing
 - 05 3100 Steel Decking
 - 05 5000 Metal Fabrications
2. Furnish and deliver all incidental steel and anchor bolts installed under other bid categories.
3. Take field measurements, onsite surveys and inspections required for the ordering and/or installations of items provided under their scope of work.

4. Applicable fees, permits, inspections, etc. as required for the completion of the work in this bid category.
 5. Installation of temporary railings at stairs and removal of same at the time of installation or permanent railings.
 6. Furnish and erect all temporary railings as required by MiOSHA, including all necessary cables, clamps, turnbuckles, etc. Maintenance and removal will be by others.
 7. Furnish and erect all structural steel, joists, decks and metal fabrications.
 8. Removal of temporary railings at stairs/precast edges at the time of installation or permanent railings.
 9. Necessary shoring and support for steel erection.
 10. Markings on steel shall be placed on areas of the member which are concealed or shall be removed completely prior to finish painting.
 11. Provide for holes in steel members that require subsequent installations of blocking.
 12. Hangers or similar attachments.
 13. Supply and install angle at top of CMU bearing walls see detail 4/S401.
 14. Furnish steel lintels per schedule SG004.
 15. Furnish bearing plates SG004.
 16. See General Comment re: anchor bolt locations.
 17. Added framing supports roof top units and roof top openings.
 18. Coordinate equipment openings in floor or roof with trades.
- Exclude:**
1. Testing will be provided by and paid for by the Owner.
 2. Fero Brackets by Others
 3. Grouting columns by others

BID CATEGORY NO. 06- ASPHALT PAVEMENTS (BID AT LATER DATE)

Include:

1. Complete paving as shown on the drawings and specified in Section 32 1216 Asphalt Paving. Fine grading and proof rolling of gravel subbase. The subbase will be brought to within +/- 0.05 foot of required final grade by the sitework contractor. Additional gravel or removal of excess gravel required to maintain final grade in this contractor's responsibility.
2. Obtain the services of a registered surveyor to provide grade stakes prior to fine grading and prior to the placement of asphalt. Any discrepancies of grades or structures must be reported to the Construction Manager prior to placing asphalt.

Exclude:

1. Testing will be provided by the Owner.

BID CATEGORY NO. 07 – LANDSCAPING (BID AT LATER DATE)

Include:

1. Complete landscaping and related work as shown on the drawings and as specified in the following sections:
 - 32 9200 Turf and Grasses
 - 32 9300 Plants
2. Finish grade all topsoil, seeded and landscaped areas, including removal of stones, dirt clumps, sticks and weeds.
3. Maintenance of plantings for one (1) year period after substantial completion
4. Obtain the services of a registered surveyor to provide grade stakes prior to fine grading and prior to the placement of landscaping. Any discrepancies of grades or structures must be reported to the Construction Manager prior to placing landscaping.

Exclude:

1. Irrigation systems.
-

BID CATEGORY NO. 08 – IRRIGATION

Include:

1. Complete the irrigation work as shown on the drawings and specified in Planting Irrigation 32 8400.
2. Sleeving that is required but not shown.
3. Wiring from the controller, including the transformer.
4. The required water meter(s) and backflow preventer(s).
5. Connection to water supply.

Exclude:

1. Electrical power to the controller.
-

BID CATEGORY NO. 09 – CONCRETE (Flat work)

Include:

1. Complete concrete and related work as shown on the drawings and as specified in the following sections:
 - 03 3000 Cast-in-Place Concrete
 - 07 2100 Thermal Insulation
 - 32 1313 Concrete Paving
 - 03 6000 Post Installed Anchors
 - 32 1373 Concrete Paving Joint Sealants
2. Fine grading and compacting for slabs on grade. The Sitework contractor will establish subgrade +/- 0.05 foot. Additional sand or removal of excess sand required to maintain final grade is this contractor's responsibility.
3. Obtain the services of a registered surveyor to provide grade stakes prior to fine grading and prior to the placement of concrete. Any discrepancies of grades or structures must be reported to the Construction Manager prior to placing concrete.
4. Reinforcing steel, as shown.
5. Install embedded items supplied by others.
6. Necessary heat and weather protection for the completion of this contractor's work.
7. All necessary surveying and staking for this contractor's work. The C.M. will supply building control points and establish a benchmark.
8. Perimeter slab/foundation insulations.
9. Shoring and supports required for the completion of this contractor's work.
10. Concrete toppings at metal pan stairs.
11. Set and grout base/leveling plates and beam pockets, as indicated. Plates and anchor bolts for structural steel to be supplied by others.
12. Installation of dovetail anchors slots as required for installation of brick veneer. Furnished by the masonry contractor.
13. Vapor barrier at all building slabs on-grade.
14. Set and place concrete fill at steel bollards.
15. Joint sealants at exposed concrete slabs.
16. See General Comment re: anchor bolt locations.
17. Supply and install ADA detectable warning surfaces.
18. Thickened slab in kitchen walk-ins including 6" insulation, vapor barrier and 2x10's as shown on the walk-in detail on sheet FS105.
19. Interior curbs including but not limited to; curbs as shown at base of cubbies as shown on I 504.
20. Include all curbs and curb types.
21. Include geofoam shown in detail 11/S 303.

Exclude:

1. Testing will be provided by the Owner
 2. Light pole bases and flagpole bases.
 3. Housekeeping and/or equipment pads.
 4. Polished concrete by BC 10 – Polished Concrete.
 5. Scope of work included in BC 05 – Concrete Foundations.
-

BID CATEGORY NO. 10 - POLISHED CONCRETE

Include:

1. Complete masonry and related work as shown on the drawings and as specified in the following sections:
 - 03 3000 Cast-In-Place Concrete
 - 03 3543 Polished Concrete
 - 32 1373 Concrete Paving Joint Sealants
2. Organize preliminary meeting with the concrete subcontractor and site superintendent to review installation sequencing, control joints and finish requirements.
3. Mock-ups per specifications.
4. Hardeners as specified.
5. Provide protection at completion. Install a layer of Tyvek with dura cover.
6. Vapor barrier & Termite treatment beneath polished slabs.
7. Provide concrete for polished flooring locations only. Exclude all other concrete.
8. Joint fillers for Polished Concrete floors.
9. Supply and install all rebar that ties precast concrete topping to adjacent masonry walls.
10. Supply and install stainless steel toe treads at each metal pan stair where polished.

Exclude:

1. All concrete that is not part of a polished concrete floor.
 2. Maintenance of flooring protection.
-

BID CATEGORY NO. 11 - PRE-CAST STRUCTURAL CONCRETE

Include:

1. Complete concrete and related work as shown on the drawings and as specified in the following sections:
 - 03 4100 Pre-Cast Structural Concrete Hollow-Core
2. Shoring and supports required for the completion of this contractors work.
3. Required grouting.
4. Provide openings for mechanical and plumbing equipment as needed.
5. Supply/Install all rebar installed in precast grout.
6. Provide weep holes through top and bottom and each end of hollow core at every core.
7. Provide and install drilled no. 5 bar anchoring precast planks to wall.
8. Coordinate all openings with other trades.

Exclude:

1. Testing will be provided by and paid for by the owner.
-

BID CATEGORY NO. 12 - MASONRY

Include:

1. Complete masonry and related work as shown on the drawings and as specified in the following sections:
 - 04 2000 Unit Masonry
 - 04 7200 Cast Stone Masonry
 - 07 1900 Water Repellants
 - 07 2119 Foamed-In-Place Insulation
 - 07 8443 Joint Firestopping
2. Installation of anchor bolts and embedment's furnished by others. Coordinate location of anchor bolts with trade(s) requiring same.
3. All masonry reinforcement, grout fill, loose fill or cavity wall insulation, etc. as shown and/or specified.
4. Grouting solid of hollow metal frames in masonry.
5. Weld anchors where specified or required.
6. Clean all new masonry.

7. Flashings and weepholes concealed in masonry work. Includes pre-finished flashings.
8. Furnish, for installation by others, dovetail anchor slots.
9. Cavity wall insulation, rigid insulation at brick veneer, and dampproofing.
10. Fire safeing, fire resistant caulking, sound attenuation blankets and acoustical sealants being an integral part of the wall system, where shown.
11. Provide and install fero brackets.
12. Necessary heat/weather protection for this contractor's work. Include IMI cold weather masonry measures/conditions to 25 degrees.
13. Mortar fill between top of masonry wall and precast plank in all conditions. Where plank is parallel to wall after topping slab and second floor walls are in place. Ref detail 5/S302.
14. Dumpsters for this contractor's waste.

Exclude:

1. Setting of hollow metal frames will be by the General Trades contractor.
2. Fire-resistant joint sealers and firestopping at through-wall penetrations are by the contractors for Divisions Fifteen and Sixteen.

BID CATEGORY NO. 13 - METALS

Include:

1. Complete the steel fabrication work as shown on the drawings and as specified in the following sections:

05 5000	Metal Fabrications
05 5213	Metal Pan Stairs
05 5213	Metal Pipe and Tube Railings
05 7300	Decorative Metal Railings

2. Furnish and deliver all incidental steel and anchor bolts installed under other bid categories.
3. Take field measurements, onsite surveys and inspections required for the ordering and/or installations of items provided under their scope of work.
4. Applicable fees, permits, inspections, etc. as required for the completion of the work in this bid category.
5. Installation of temporary railings at stairs and removal of same at the time of installation or permanent railings.
6. Furnish and erect all temporary railings as required by MiOSHA, including all necessary cables, clamps, turnbuckles, etc. Maintenance and removal will be by others.
7. Necessary shoring and support for steel erection.
8. Slab edge pour stops.
9. Markings on steel shall be placed on areas of the member which are concealed or shall be removed completely prior to finish painting.
10. Provide for holes in steel members that require subsequent installations of blocking.
11. Hangers or similar attachments.
12. Bearing Plates Required.
13. Dumpster Gates.
14. Thermoplastic Sleeves for Bollards
15. Roof Access Stairs and Ladder Systems.
16. Elevator Pit Sump cover and frame
17. Pre finished metal gates with latching hardware and stair gates
18. See Gen Comments re: Misc Lintels
19. See General Comment re: anchor bolt locations.

Exclude:

1. Structural steel, joists, deck as listed in BP 3 - Bid Category 05 - Structural Steel
2. Testing will be provided by and paid for by the Owner.
3. Steel bollards will be set by others.
4. Elevator Pit Ladder by others.

BID CATEGORY NO. 14 – GENERAL TRADES

Include:

1. Complete general work as shown on the drawings and as specified in the following sections:

06 1000 Rough Carpentry
06 1600 Sheathing
06 1800 Glued Laminated Construction
06 4023 Interior Architectural Woodwork
06 4116 Plastic-Laminated Faced Architectural Cabinets
06 6116 Solid Surface Fabrications
06 6400 Plastic Paneling
07 2100 Thermal Insulation
08 1113 Hollow Metal Doors and Frames (Install Only)
08 3113 Access Doors and Frames
08 1416 Flush Wood Doors (Install Only)
08 7100 Door Hardware (Install Only)
09 7723 Fabric-Wrapped Panels (Addendum 01)
10 1100 Visual Display Boards(install only)
10 2113.19 Plastic Toilet Compartments
10 2123 Cubical Curtains and Track
10 2600 Wall and Door Protection
10 2800 Toilet and Bath Accessories
10 3090 Manufactured Electric Fireplace
10 4413 Fire Protection Cabinets
10 4416 Fire Extinguishers
10 5113 Metal Lockers
10 7516 Ground Set Flag Poles
12 3216 Manufacturers Plastic Laminate Faced Casework
12 3623-12 3623.13 Plastic Laminate Clad Countertops
12 3653 Laboratory Countertops
12 3661.16 Solid Surface Countertops

2. Schedule, take delivery, inventory, store and install all items noted as “Install Only” above. Provide a list of material received each day to the Construction Manager’s Superintendent. All items not so noted are to be furnished and installed.
3. Take field measurements, onsite surveys and inspections required for the ordering and/or installations of items provided under their scope of work.
4. Furnish and erect all blocking shown on drawings or as specified in Miscellaneous Carpentry. Include all blocking not shown but incidental to your scope of work.
5. Roof sheathings/blocking/pre-engineered Nailer as shown. Prior to installation, schedule a meeting with the roofing contractor to coordinate requirements. Notify the Construction Manager’s superintendent of the meeting so that he/she can be in attendance, furnish, for others to install, anchor bolts required for blocking installation.
6. Concrete flag bases.
7. Installation of electric strikes.
8. Batt insulations not in partitions/walls.
9. Supply and install Rigid Insulation in Top Cap
10. See General Comment re: Access Doors.
11. Protect the tops of casework with cardboard until all work is completed in a given area.
12. See General Comment re: Demolition.
13. Provide and Install Knox Boxes
14. Install of Owner provided items
15. Any wood sheathing shown to be by this contractor
16. Responsible for pvc trim Ref Keyed Note 2 on I 101A
17. Responsible for all millwork, architectural casework, plastic laminate casework/countertops and solid surface countertops and associated hardware.
18. Backing required but not specifically called out on the drawings.

19. Filler panels, kick plates, metal standards, shelving, countertops, and finished ends.
20. Grommets as shown or specified.
21. Base frames
22. Supply and install Gluelam Per S203C
23. Responsible for supplying and installing waterplace fireplace, ref A101A
24. Drill holes in concrete for gate drop pins. Locate in the field at drop pin locations.
25. Skim behind impact resistant coverings on block walls.
26. Responsible for plastic laminate seat, head detail, trim, etc on Community Nook. Ref: I503
27. Install of automatic door operators.

Exclude:

1. Installation of door hardware associated with aluminum entrances.
2. Temporary weather protection, including temporary partitions and barricades for general access, shall be by the Construction Manager.
3. Automatic door operators will be furnished by others.
4. Dumpster Gates

BID CATEGORY NO. 15 - METAL WALL PANELS

Include:

1. Complete roofing and related work as shown on the drawings and as specified in the following sections:
 - 07 2100 Thermal Insulation
 - 07 4123.23 Metal Composite Material Wall Panels
 - 07 4616 Aluminum Siding
2. Wood blocking as required for the installation of the panel system but now shown in the drawings.
3. Panel-to-panel joint sealants. Coordinate compatibility with product being installed by the contractor for Bid Category No. -17 Joint Sealants.
4. Install of soffit at Canopy and vestibule
5. Weather/air proofing barrier behind metal panels

Exclude:

1. Joint sealants at the perimeter of the panel system.

BID CATEGORY NO. 16 - ROOFING

Include:

1. Complete roofing and related work as shown on the drawings and as specified in the following sections:
 - 07 5323 EPDM Membrane Roofing
 - 07 6200 Sheet Metal Flashing and Trim
 - 07 7100 Roof Specialties
 - 07 7200 Roof Accessories
 - 08 6270 Tubular Skylights (Addendum 01)
2. Wood blocking needed solely for the installation of the roofing system and/or metal panels and not shown on the drawings.
3. Applicable fees, permits, inspections, etc. as required for the completion of the work in this bid category.
4. Flash/seal penetrations through roofing membranes, both existing and new. Present warranties are to be protected and maintained.
5. Snow removal as required for the completion of this contractor's work.
6. Responsible for insulation under this contractors work including vertical insulation.
7. Responsible for tubular skylights including but not limited to the curb. (Addendum 01)

Exclude:

1. Prefabricated curbs and equipment support units.

BID CATEGORY NO. 17 – JOINT SEALANTS

Include:

1. Complete moisture protection work shown on the drawings and as specified in the following sections:
 - 07 1326 Self Adhering Sheet Waterproofing
 - 07 2715 Nonbituminous self-adhering sheet air barrier
 - 07 9200 Joint Sealants
 - 07 9219 Acoustical joint sealants
2. Acoustical sealants at items built into wall construction (i.e. door frames). Acoustical sealant being an integral part of wall construction (i.e. top of wall) shall be by others.
3. Joints in concrete and masonry wall construction, as required.
4. Joint sealants at the perimeter of metal panel systems.
5. Caulking of Cubbies at wall and at concrete bases
6. Caulking of Educational Case goods in **GREEN**.
7. Caulking around glass sliders.
8. Caulking back splashes, casework, counter tops, etc.
9. Responsible for waterproofing at elevator.

Exclude:

1. Fire resistant joint sealers.
2. Joint sealants at exposed concrete slabs.
3. Joint sealants at the perimeter of aluminum windows, curtainwalls and storefront systems.

BID CATEGORY NO. 18 – DOORS, FRAMES AND HARDWARE

Include:

1. Furnish and deliver doors, frames and hardware as shown on the drawings and as specified in the following sections:
 - 08 1113 Hollow Metal Doors and Frames (Supply Only)
 - 08 1416 Flush Wood Doors (Supply Only)
 - 08 7100 Door Hardware (Supply Only)
2. Coordination with the supplier(s) of steel frames and finish hardware.
3. Take field measurements, onsite surveys and inspections required for the ordering and/or installations of items provided under their scope of work.
4. Multiple deliveries may be required. Coordinate with the project schedule.
5. Provide temporary keying system during construction.
6. Automatic door operators.
7. Coordinate/verify door undercuts at tile floors.
8. Furnish electric strikes and power supplies for openings covered under this category.
9. Security/Electrical are to install power supplies, General Trades to install electric strikes.

Exclude:

1. Installation is by the General Trades contractor.
2. Furnishing of hardware for aluminum entrances, regardless of how specified in Section 08 4113 or if in a section referenced in another bid category.

BID CATEGORY NO. 19 - OVERHEAD DOORS

Include:

1. Complete overhead type doors as shown on the drawings and as specified in the following sections:
 - 08 3323 Overhead Coiling Doors
 - 08 3343 Smoke and draft rated curtains
2. Any required blocking and/or supports required for the complete installation of this scope of work that is not shown on the drawings.
3. Take field measurements, onsite surveys and inspections required for the ordering and/or installations of items provided under their scope of work.
4. Wiring of unit components from the disconnect, or other point of termination of electrical power. Includes low voltage wiring required to control the operation of the doors.
5. Testing of all fire rated door systems installed

BID CATEGORY NO. 20 - ALUMINUM, GLASS AND GLAZING

Include:

1. Complete aluminum, glass and glazing as shown on the drawings and as specified in the following sections:
 - 07 2100 Thermal Insulation
 - 08 4113 Aluminum Entrances and Storefronts
 - 08 4329 Sliding Store Fronts
 - 08 4523 Fiberglass sandwich panel assemblies
 - 08 7100 Hardware
 - 08 8000 Glazing
 - 08 8700 Architectural Window Film
 - 08 8813 Fire Rated Glazing
 - 08 8853 Security Glazing
2. Glass cleaning at substantial completion of the entire project.
3. Take field measurements, onsite surveys and inspections required for the ordering and/or installations of items provided under their scope of work.
4. Install and program door operators.
5. Supply and install door hardware at aluminum entrances.
6. Joint sealants at the perimeter of the systems installed by this contractor. Furnishing of hardware for aluminum entrances, regardless of how specified in Section 08 7100 or if in a section referenced in another bid category.
7. Furnishing of hardware for aluminum entrances, regardless of how specified in Section 08 7100 or if in a section referenced in another bid category
8. Electrical are to install power supplies, General Trades to install electric strikes.

Exclude:

1. Metal wall panels
2. Automatic door operators are furnished by others.

BID CATEGORY NO. 21 - LATH, PLASTER, DRYWALL AND ACOUSTICAL

Include:

1. Complete finish and other work as shown on the drawings and as specified in the following sections:
 - 05 4000 Cold Formed Metal Framing
 - 06 1600 Sheathing
 - 06 4000 Plastic Paneling
 - 07 2100 Thermal Insulation
 - 07 8443 Joint Fire Stopping
 - 09 2216 Nonstructural metal framing

09 2900 Gypsum Board
09 5113 Acoustical Panel Ceilings
09 5133 Acoustical Metal Pan Ceilings
09 8316 Acoustic Ceiling Coating
09 8443 Sound Absorbing Wall Units
09 8437 Sound Absorbing Ceiling Units
09 8437 Linear Acoustical Baffles

2. Fire safeing, fire resistant caulking, sound attenuation blankets and acoustical sealants being an integral part of the wall system, where shown.
3. All rigid insulation not in composite masonry walls, at foundation walls or part of roofing systems.
4. See General Comment re: Access Doors
5. All sound and batt insulation, except that installed in curtainwall or storefront frame.
6. Sound sealants.
7. Framing, insulation, sheathing, dense deck, etc. at exterior walls.
8. Nonconductive Z girts & diagonal furring.
9. Spray foam insulation at all z girt locations and all exterior walls.
10. "Projectable Surface" in gym. Include a layter of 5/8" non-combustible plywood as substrate. Ref I101A, note 11

Exclude:

1. Fire-resistant joint sealers and firestopping at through-wall penetrations are by the contractors for Divisions 21, 22, 23, 26, 27, and 28.
2. Acoustical sealants at built-in items (i.e. door frames) shall be by others.
3. Fire protection heads shall be cut-in by the fire protection contractor.

BID CATEGORY NO. 22 - FLOORING

Include:

1. Complete flooring as shown on the drawings and as specified in the following sections:

09 3000 Tiling
09 6500 Resilient Flooring
09 6513 Resilient Base and Accessories
09 6813 Tile Carpet

2. Minor preparation of floor and wall surfaces such as grinding, patching, latexing, latence, scum and paint removal, etc.
3. Final cleaning of carpet and tile surfaces.
4. Required reducer strips and base.
5. Caulking of control joints in tile surfaces.
6. Cubbie curb wrapped in resilient flooring Ref I 504.
7. Provide contrasting resilient accent strip at top of and bottom of ramps.
8. Provide protection of all flooring surfaces after install (IE: Ram Board in high traffic areas - hallway/learning commons and house wrap in classrooms/office spaces

BID CATEGORY NO. 23 - RESILIENT ATHLETIC FLOORING

Include:

1. Complete flooring as shown on the drawings and as specified in the following sections:

09 6513 Resilient Athletic Base and Accessories
09 6566 Resilient Athletic Flooring

2. Minor preparation of floor and wall surfaces such as grinding, patching, latexing, latence, scum and paint removal, etc.
3. Installation of Gymnasium Equipment penetrating resilient athletic flooring. This includes grouting and plugging as required.
4. Final cleaning of surfaces.
5. Required reducer strips and base and doors.

6. Painting, striping and logos.

BID CATEGORY NO. 24 - PAINTING

Include:

1. Complete finish work as shown on the drawings and as specified in the following sections:

09 7200 Wall Covering
09 7270 Graphic Wall Coverings
09 9114 Exterior Painting (Addendum 01)
09 9123 Interior Painting
09 9300 Staining and Transparent Finishing

2. Painting of exposed mechanical, fire protection, and electrical piping and equipment.
3. Final touch-up.
4. Finishing of running wood trim and paneling veneers, including filling of nail holes.
5. Include stenciling above ceilings for all rated wall significations at multiple locations and as required.
6. Painting of Exterior Lintels

Exclude:

1. Wood doors are prefinished.

BID CATEGORY NO. 25 - VISUAL DISPLAY UNITS

Include:

1. Complete visual display unit work as shown on the drawings and as specified in the following section:

10 1100 Visual Display Units (Supply only)

2. Furnish all mounting brackets and supports needed beyond wood backing.

Exclude:

1. Installation by General Trades.

BID CATEGORY NO. 26 - SIGNAGE

Include:

1. Complete signage as shown on the drawings and as specified in the following sections:

10 1419 Dimensional Letter Signage
10 1426 Post and Panel-Pylon Signage
10 1453 Traffic Signage

BID CATEGORY NO. 27 - FOOD SERVICE EQUIPMENT

Include:

1. Complete Food Service and related work as shown on the drawings and as specified as follows:

11 400 Food Service Equipment (Addendum 01)

2. See General Comments re: food service equipment.
 3. Take field measurements, onsite surveys and inspections required for the ordering and/or installations of items provided under their scope of work.
 4. Fire resistant joint sealants as specified in section 07 8413 for all the food service associated penetrations.
-

BID CATEGORY NO. 28 -GYMNASIUM EQUIPMENT

Include:

1. Complete gymnasium equipment and related work as shown on the drawings and as specified as follows:
11 6623 Gymnasium Equipment
-

BID CATEGORY NO. 29 -PLAYGROUND EQUIPMENT

Include:

1. Complete gymnasium equipment and related work as shown on the drawings and as specified as follows:
11 6800 Playfield Equipment and structures
32 1816.13 Playground Protective Surfacing
2. Playground Equipment
3. Play Area Mulch.
4. Playground painting
5. Responsible for concrete related to/required for your equipment.
6. Painted play area as indicated in asphalt play pavement area of sheet L103.
7. Install all 3A mulch whether it's in playground areas or outside of them.

Exclude:

1. Wood logs in natural play area.
-

BID CATEGORY NO. 30 -WINDOW SHADES:

Include:

1. Complete window shades and related work as shown on the drawings and as specified as follows:
12 2413 Roller Window Shades
 2. Final Cleaning
 3. Coordinate with electrical
-

BID CATEGORY NO. 31 - EDUCATIONAL CASEGOODS

Include:

1. Complete window shades and related work as shown on the drawings and as specified as follows:
12 3550.13 Educational Casegoods
2. All casework shown in **GREEN** on interiors plans are part of this bid category
3. Backing required but not specifically called out on the drawings
4. Filler panels, kick plates, metal standards, shelving, countertops, and finished ends.
5. Grommets as shown or specified
6. Hardware
7. Base Frames
8. Coordinate on all items supplied by furniture manufacturer

Exclude:

1. Plywood sheathing and wood blocking as shown
 2. Joint Sealants at perimeter of the panel system
-

BID CATEGORY NO. 32 - ELEVATORS

Include:

1. Complete new elevators and related work as shown on the drawings and as specified as follows:

14 2123.16 Machine Room-less Electric Traction Passenger Elevators
 2. Smoke detection system(s).
 3. Applicable fees, permits, inspections, etc. as required for the completion of the work in this bid category.
 4. Take field measurements, onsite surveys and inspections required for the ordering and/or installations of items provided under their scope of work.
 5. Fire resistant joint sealants as specified in section 07 8413 for all elevator associated penetrations.
 6. Install Elevator Key Box
 7. Elevator Pit Ladder
-

BID CATEGORY NO. 33 – FIRE PROTECTION

Include:

Complete fire protection and related work as shown on the drawings and as specified as follows:

07 8413 Firestopping Penetrations
21 0500 Common Results For Fire Suppression
21 1000 Water Based Fire Suppression Systems

1. Fire resistant joint sealers as specified in Section 07 8413 for all fire protection associated penetrations.
2. Access doors required but not shown, for access to fire protection systems. Installation by others.
3. Housekeeping and/or equipment pads required for the installation of this contractor's equipment, whether or not they are indicated on the drawings.
4. Applicable fees, permits, inspections, etc. as required for the completion of the work in this bid category.
5. Cutting of penetrations through architectural elements (i.e. ceiling pads) required to facilitate the installation of fire protection system(s).
6. Facilitate pre-work coordination meeting with all other trades.
7. Coordination and supervision of electrical connection to control and alarm panels furnished by this contractor.
8. Fire suppression backflow preventor.
9. See General Comments re: Access Doors.
10. See General Comments re: Food Service Equipment.
11. See General Comments re: Fireproofing.

Exclude:

1. Post indicator valve.
-

BID CATEGORY NO. 34 - DDC CONTROL SYSTEM

Include:

1. Complete Direct Digital Control systems and related work as shown on the drawings and as specified in the following sections:

23 0900 Instrumentation and Control for HVAC

2. Motorized dampers.
3. Coordinate with electrical rough-ins.
4. Coordinate with related mechanical system installations.
5. Fire resistant joint sealers as specified in Section 07 8413 for all building management associated penetrations.
6. Applicable fees, permits, inspections etc as required for the completion of the work in this bid category
7. See General Comment re: Access Doors.
8. See General comments re: food service equipment.
9. See General Comments re: fireproofing.
10. Work and coordinate with commissioning agent
11. Furnish, mount, start, commission VFD's. Electricians provide power.
12. This contractor to install any 120 volt power required for the panels/controls not shown on Electrical drawings.

13. Include all rough ons for stats and sensors
-

BID CATEGORY NO. 35 - MECHANICAL/PLUMBING

Include:

1. Complete plumbing, mechanical and related work as shown on the drawings and as specified in the following sections.

Division 22 Plumbing
Division 23 Heating Ventilating and air conditioning
07 2100 Thermal Insulation
08 9119 Fixed Louvers
2. Take field measurements, onsite surveys and inspections required for the ordering and/or installations of items provided under their scope of work.
3. Wall louvers.
4. Coordinate and do final installs with the excavator all piping within 5' of the building
5. Fire resistant joint sealers as specified in Section 07 8413 for all mechanically associated penetrations.
6. Temporary covers at roof openings.
7. See General Comment re: Access Doors
8. Blocking required for mechanical installations such as roof curbs.
9. Provide and install (using qualified trades) all lintels required but not shown.
10. Prefabricated curbs, equipment supports and all blocking required for mechanical installations.
11. Provide barricades for your work.
12. Temporary heating system(s) as addressed in the general requirements section 01500.1
13. Housekeeping and/or equipment pads required for the installation of this contractor's equipment, whether or not they are indicated on the drawings.
14. Applicable fees, permits, inspections, etc. as required for the completion of the work in this bid category.
15. Metal support framing specifically required for support of mechanical systems.
16. See General Comments re: food service equipment.
17. See General Comments re: fireproofing.
18. Coordinate with the precast supplier for required openings
19. Provide grease interceptor.
20. Irrigation & domestic water backflow preventer.
21. Work & coordinate with Commissioning agent.

Exclude:

1. DDC Control Systems per Sections 23 0900.
 2. Fire Protection
 3. Fuel for temporary heating will be provided and paid for by the Owner.
 4. Testing, Balancing and Commissioning.
 5. Kitchen hood ductwork.
-

BID CATEGORY NO. 36 - TESTING and BALANCING

Include:

1. Complete testing and balancing of systems and related work as shown on the drawings and as specified in the following sections:

23 0500 Common Work Results for Plumbing
23 0593 Testing, Adjusting and Balancing for HVAC
 2. A minimum of two site visits to complete a pre-functional checklist of all equipment as shown on Mechanical and Electrical drawings. Requirements include submission of written checklist to the Construction Manager.
 3. Sample Documentation with the bid.
-

BID CATEGORY NO. 37 - COMMISSIONING (By Owner, already awarded to FISECx)

Include:

1. Complete commissioning of systems and related work as shown on the drawings and as specified in the following sections:

22 0800	Minimum Commissioning of Plumbing
23 0800	Minimum Commissioning of HVAC
2. A minimum of two site visits to complete a pre-functional checklist of all equipment as shown on Mechanical and Electrical drawings. Requirements include submission of written checklist to the Construction Manager.
3. Sample Documentation with the bid.

BID CATEGORY NO. 38 - ELECTRICAL

Include:

1. Complete electrical and related work as shown on the drawings and as specified as follows:

Division 26 Electrical
27 0528 Pathways for Communications Systems
28 3100 Fire Detection and Alarm

2. Temporary electrical system(s). Remove upon the direction of the Construction Manager.
3. Technology and communications related (voice, data, video, etc.) boxes, raceways and pull wires through walls and at exposed ceilings as required by the documents. Coordinate with appropriate contractor(s).
4. Fire resistant joint sealers as specified in Section 07 8413 for all electrical associated penetrations.
5. Take field measurements, onsite surveys and inspections required for the ordering and/or installations of items provided under their scope of work.
6. See General Comment re: Access Doors.
7. Applicable fees, permits, inspections, etc. as required for the completion of the work in this bid category.
8. Third party Lighting Control Commissioning as required for permitting.
9. Furnish and install electrical sleeves.
10. Final hook-up of mechanical equipment.
11. Install power supplies for electric strikes.
12. Housekeeping and/or equipment pads required for the installation of this contractor's equipment, whether or not they are indicated on the drawings.
13. Demolition of and removal of electrical systems required to facilitate new construction and/or remodeling. It is this contractor's responsibility to survey existing conditions to determine the extent that this affects this scope of work.
14. Light pole bases.
15. Metal support framing specifically required for support of electrical systems.
16. See General Comments re: food service equipment.
17. See General Comments re: fireproofing.
18. Coordinate with precast supplier for all required openings.
19. Cap and make safe at utility for demolition.
20. Work & coordinate with Commissioning agent.

Exclude:

1. Wire and cable for technology and communication related systems.
-

BID CATEGORY NO. 39 – AUDIO VISUAL SYSTEMS

Include:

1. Complete Audio Video Systems related work as shown on the drawings and as specified in the following sections:

27 4116 Integrated Audio Video Systems and Equipment

2. Applicable fees, permits, inspections, etc. as required for the completion of the work in this bid category.
3. Coordinate with electrical rough-ins.
4. Fire resistant sealers for joints and/or penetrations as specified in Spec Section 07 8413 Firestopping related to this scope of work.
5. See General Comment re: Access Doors.
6. Coordinate all wall rough-ins with the elements shown in elevations i.e. cabinets, tackboards, etc...

BID CATEGORY NO. 40 – PUBLIC ADDRESS AND CLOCK SYSTEMS

Include:

1. Complete Public Address and Clock Systems related work as shown on the drawings and as specified in the following sections:

27 5123 Integrated Audio Video Systems and Equipment

27 5313 Clock Systems

2. Applicable fees, permits, inspections, etc. as required for the completion of the work in this bid category.
 3. Coordinate with electrical rough-ins.
 4. Fire resistant sealers for joints and/or penetrations as specified in Spec Section 07 8413 Firestopping related to this scope of work.
 5. See General Comment re: Access Doors.
 6. Coordinate all wall rough-ins with the elements shown in elevations i.e. cabinets, tackboards, etc...
 7. Using qualified trades remove and reinstall as needed existing ceilings if not shown to be removed.
 8. Provide power pigtails to Electrical contractor.
-

BID CATEGORY NO. 41 – STRUCTURED CABLING SYSTEMS (LOW VOLTAGE DATA CABLING SYSTEMS)

Include:

1. Complete Structured Cabling Systems related work as shown on the drawings and as specified in the following sections:
 - 27 0500 Common Work Results For Communications
 - 27 0526 Grounding And Bonding For Communication Systems
 - 27 0528 Pathways for Communications Systems
 - 27 0536 Ladder Rack for Telecommunication Room
 - 27 0553 Identification For Communication Systems
 - 27 1116 Telecommunication Room Equipment and Racks
 - 27 1323 Communications Optical Fiber Backbone Cabling
 - 27 1513 Communications Copper Horizontal Cabling
 - 27 1700 Testing and Administration of Balanced Twisted Pair Infrastructure
 - 27 1800 Testing, Identification and Administration of Fiber Infrastructure
 2. Applicable fees, permits, inspections, etc. as required for the completion of the work in this bid Category.
 3. Coordinate with electrical rough-ins.
 4. Fire resistant sealers for joints and/or penetrations as specified in Spec Section 07 8413 Firestopping related to this scope of work.
 5. See General Comment re: Access Doors.
 6. Coordinate all wall rough-ins with the elements shown in elevations i.e. cabinets, tackboards, etc...
 7. Using qualified trades remove and reinstall as needed existing ceilings if not shown to be removed.
-

BID CATEGORY NO. 42 – ACCESS CONTROL AND INTERCOM ENTRY SYSTEMS

Include:

1. Complete Access Control and Intercom Entry Systems related work as shown on the drawings and as specified in the following sections:
 - 28 1400 Access Control System Hardware
 - 28 1500 Access Control Hardware Devices
 2. Applicable fees, permits, inspections, etc. as required for the completion of the work in this bid category.
 3. Survey the building before the start of demolition and red flag lines and equipment accordingly to minimize the potential for accidental demolition.
 4. Coordinate with electrical rough-ins.
 5. Fire resistant sealers for joints and/or penetrations as specified in Spec Section 07 8413 Firestopping related to this scope of work.
 6. See General Comment re: Access Doors.
 7. Coordinate all wall rough-ins with the elements shown in elevations i.e. cabinets, tackboards, etc...
 8. Using qualified trades remove and reinstall as needed existing ceilings if not shown to be removed.
-

GENERAL COMMENTS

Support for Building Systems/Components:

1. Any component of the building construction that requires support and/or blocking that is not shown in the Documents shall be provided by the contractor that is responsible for the installation of the component.

Anchor Bolt Locations:

1. After anchor bolts have been placed and concrete foundation work completed in one or more areas of the building, as agreed upon by the Construction Manager, the concrete contractor shall survey/verify the location and elevation of all anchor bolts. Any variation in location and elevation of the anchor bolts shall be noted on the approved anchor bolt layout drawing and shall be given to the Construction Manager who shall forward it to the structural steel contractor. If any anchor bolt is not located properly, and the structural steel contractor agrees that the anchor bolt can remain as located, then, with the approval of the structural engineer, the anchor bolt will not be removed, but the concrete contractor shall bear all costs related to any adjustment necessary in the column base plate. If the anchor bolt is required to be relocated, the concrete contractor shall immediately do so as not to cause delay the installation of the structural steel.

Access Doors:

1. The responsibility for access doors shall be as follows: the general trade's contractor shall furnish all access doors that are shown on the Documents to be installed by the masonry contractor in masonry partitions and by the LPDA contractor in drywall partitions, drywall ceilings or acoustical ceilings. Any access door that is not shown in the Documents, but that are required by the plumbing, fire protection, HVAC or electrical contractor, shall be provided by the contractor that requires the access door. The door shall be furnished to the masonry contractor for the installation into masonry partitions and to the LPDA contractor for installation into drywall partitions, drywall ceilings or acoustical ceilings.

Food Service Equipment:

1. Shop drawings and detailed equipment schedules for the food service equipment layout and rough-ins shall be submitted by the successful food service contractor in a time frame consistent with the completion schedule, but shall in no case exceed forty-five (45) days after Notice of Award.
2. The plumbing, HVAC and electrical contractors shall carefully review the food service equipment drawings and shall be responsible for all notes on these drawings that pertain to their work.
3. As a separate submission with the food service equipment shop drawings, the food service contractor shall provide written confirmation that all of the electrical requirements for the food service equipment (i.e. quantity, location, phase and voltage) is correctly shown on the contract drawings.

Fireproofing:

1. The LPDA contractor shall include in the base bid return trips to touch-up all spray fireproofing that may be disturbed by other trades during the installation of their work. However, any unreasonable destruction of the fireproofing by the trade contractors will not be considered touch-up and the cost of the repairing these areas shall be the responsibility of the contractor causing damage (backcharge).

Demolition:

1. Dumpsters provided by the Construction Manager for use during construction shall not be available for the disposal of the following items: debris resulting from architectural, structural, mechanical, or electrical demolition operations; site related materials; paint products, hazardous materials. Contractors generating such materials shall provide dumpsters for them and legally dispose of them off site.
2. Unless specifically noted otherwise the division of demolition work shall be as follows: sitework contractor – site demolition; general trades contractor – architectural and structural demolition; mechanical/plumbing contractor – HVAC and plumbing demolition; fire protection contractor – fire protection demolition; electrical contractor – electrical demolition.
3. Demolition shown on the demolition plans is the responsibility of the Demolition / General Trades Contractor. Patching of items as a result of demolition shown on the Demolition plans is the responsibility of the contractor who is responsible for similar elements throughout the building.
4. Demolition (and related patching) needed but not shown on the demolition plan is the responsibility of the contractor requiring it.



General Safety:

1. Your Firm, all employees, subcontractors, and material suppliers onsite will comply with Owen-Ames-Kimball Co.'s Safety Policy and Requirements, INCLUDING BUT NOT LIMITED TO THESE HIGHLIGHTED ITEMS:
 - a. Hard hats are required.
 - b. Contractor safety manuals/books will be kept on-site.
 - c. Contractors must provide their own first aid and fire protection equipment.
 - d. Contractors are responsible for providing the necessary barricades for their work.
 - e. Contractors are responsible for their own fall protection.
 - f. Contractors must comply with the "Right to Know" law.
 - g. Contractors must comply with O.A.K.'s substance abuse policy.
 - h. No Smoking, Tobacco, or E-Cigarettes on School Property.
 - i. A designated competent/qualified person shall be required to be on site for the following but not limited to structural demolition, scaffolding, fall protection & excavations.
 - j. Contractors shall furnish a written job specific Silica Exposure Plan per MiOSHA requirements.
 - k. Contractors required to work in a masonry restricted zone must have proper training.
2. Owen-Ames-Kimball Co. Safety Manual can be viewed in its entirety here:
<https://tinyurl.com/34zxyj49>

End of Instruction Bidders

STATEMENT OF PARTICIPATION

Owen-Ames-Kimball Co. strives to recognize and represent the community in which you reside and serve through continuous efforts to encourage local participation and inclusive practices on all our construction projects.

Owen-Ames-Kimball Co. encourages local participation. We believe we have a responsibility to support the growth of the businesses within the community in which the project resides.

Owen-Ames-Kimball Co. practices inclusion. These inclusive practices are established within our organization and in our business endeavors, and strongly promoted on our jobsites. We encourage all of our subcontractors to implement inclusive practices within their organizations and through partnering efforts on our projects.



CERTIFICATE OF LIABILITY INSURANCE

DATE (MMDD/YYYY)
ISSUE DATE

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER AGENT'S NAME AGENT'S ADDRESS	CONTACT NAME: AGENCY CONTACT INFORMATION PHONE (A/C, No, Ext): FAX (A/C, No): E-MAIL ADDRESS: <table style="width: 100%; border: none;"> <tr> <td style="text-align: center; border: none;">INSURER(S) AFFORDING COVERAGE</td> <td style="text-align: center; border: none;">NAIC #</td> </tr> <tr> <td style="border: none;">INSURER A: CARRIER NAME</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">INSURER B: CARRIER NAME</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">INSURER C:</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">INSURER D:</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">INSURER E:</td> <td style="border: none;"></td> </tr> <tr> <td style="border: none;">INSURER F:</td> <td style="border: none;"></td> </tr> </table>	INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A: CARRIER NAME		INSURER B: CARRIER NAME		INSURER C:		INSURER D:		INSURER E:		INSURER F:	
INSURER(S) AFFORDING COVERAGE	NAIC #														
INSURER A: CARRIER NAME															
INSURER B: CARRIER NAME															
INSURER C:															
INSURER D:															
INSURER E:															
INSURER F:															
INSURED SUBCONTRACTOR'S NAME SUBCONTRACTOR'S ADDRESS															

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MMDD/YYYY)	POLICY EXP (MMDD/YYYY)	LIMITS
X	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GENL AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER:	X	X	POLICY NUMBER	EFF DATE	EXP DATE	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMPI/OP AGG \$ 2,000,000
X	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY	X	X	POLICY NUMBER	EFF DATE	EXP DATE	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
X	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED: \$ RETENTION \$	X	X	POLICY NUMBER	EFF DATE	EXP DATE	EACH OCCURRENCE \$ 2,000,000 AGGREGATE \$ 2,000,000
X	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	POLICY NUMBER	EFF DATE	EXP DATE	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 500,000 E.L. DISEASE - EA EMPLOYEE \$ 500,000 E.L. DISEASE - POLICY LIMIT \$ 500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

RE: Project Name
 Owen-Ames-Kimball Co., Owner and Architect, along with their respective officers, agents and employees are named as additional insureds for the auto liability and general liability on a primary and non-contributory basis for ongoing and completed operations per CG2010 07/04 and CG2037 07/04 attached. A waiver of subrogation applies in favor of additional insureds for the general liability, auto liability and workers' comp. Umbrella is following form. A 30-day notice of cancellation or change in coverage will be provided to Owen-Ames-Kimball Co.

CERTIFICATE HOLDER Owen-Ames-Kimball Co. 126 Ottawa Ave NW, Suite 600 Grand Rapids, MI 49503	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE AGENT'S SIGNATURE
--	---

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POLICY NUMBER: SAMPLE

COMMERCIAL GENERAL LIABILITY
CG 20 10 07 04

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**ADDITIONAL INSURED – OWNERS, LESSEES OR
CONTRACTORS – SCHEDULED PERSON OR
ORGANIZATION**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s):	Location(s) Of Covered Operations
Owen-Ames-Kimball Co., Owner and Architect along with their respective officers, agents, employees	
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

A. Section II – Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

1. Your acts or omissions; or
2. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations for the additional insured(s) at the location(s) designated above.

B. With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:

This insurance does not apply to "bodily injury" or "property damage" occurring after:

1. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or
2. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.



POLICY NUMBER: SAMPLE

COMMERCIAL GENERAL LIABILITY
CG 20 37 07 04

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**ADDITIONAL INSURED – OWNERS, LESSEES OR
CONTRACTORS – COMPLETED OPERATIONS**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s):	Location And Description Of Completed Operations
Owen Ames Kimball Co., Owner and Architect along with their respective officers, agents and employees	
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

Section II – Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury" or "property damage" caused, in whole or in part, by "your work" at the location

designated and described in the schedule of this endorsement performed for that additional insured and included in the "products-completed operations hazard".

SUBMIT IN TRIPLICATE

BID FORM

BID TO: Portage Public Schools
8107 Mustang Drive,
Portage, MI 49002

BID FROM: _____

PROJECT: Amberly Elementary School – Bid Package 4

Ladies and Gentlemen:

The undersigned, having familiarized themselves with the local conditions affecting the cost of the Work and having examined the site, and Bidding Documents prepared by Tower Pinkster, 242 E Kalamazoo Ave, Kalamazoo, MI 49007, hereby propose to furnish all labor, material, equipment, taxes and services required for the proper completion of each of the following categories for this Project, including all addenda issued thereto, for the sum of:

Bid Category No. _____ Title _____
_____ Dollars (\$ _____),
Said amount constituting the Base Bid.

TAXES: Bid sum includes all applicable taxes, including Michigan Sales Tax. Confirm that your company can pay Michigan Sales and Use Tax: Yes No

COST OF BONDS: Bid sum includes cost of furnishing a Performance Bond and Labor and a Material Payment Bond, each in the amount of 100% of Base Bid.

ACKNOWLEDGEMENT OF ADDENDA

The following addenda have been received, are hereby acknowledged, and their execution is included in the above Base Bid:

Addendum No. ___ Dated _____ Addendum No. ___ Dated _____ Addendum No. ___ Dated _____
Addendum No. ___ Dated _____ Addendum No. ___ Dated _____ Addendum No. ___ Dated _____

ALTERNATES

Base bid amount may be increased or decreased in accordance with each of the following alternate bids as may be selected, following the procedures stated in the Instruction to Bidders. **Any applicable bonding cost should be included with the Alternate pricing.** Refer to Section 01030.

Alternate No. 1: Snow Melt System - Provide snow melt system between drop-off loops and main entry on southwest side of building. Refer to M800 sheets

Add/Delete _____ Dollars (\$ _____)

SUBMIT IN TRIPLICATE

Alternate No. 2: Hydronic piping connections to be welded.

Add/Delete _____ Dollars (\$) _____)

VOLUNTARY ALTERNATES (Identify in detail on appropriate attachment any Voluntary Alternates shown here)

A _____

B _____

C _____

BID SECURITY

Accompanying this Bid, as required by the Instructions to Bidders, is a bid security in the form of (Certified Check/Cashier's Check/Bidder's Bond) in the amount of:

_____ Dollars (\$ _____), payable to the Owner, which it is agreed, shall be retained as liquidated damages, not as a penalty, by the Owner, if the undersigned fails to execute the Contract in conformity with the form of Contract incorporated in the Contract Documents and fails to furnish specified bonds within ten (10) days after date of issuance of Letter of Intent to the undersigned.

If awarded the Contract, the undersigned agrees to commence Work within ten (10) days after date of issuance of Notice of Pending Award, which shall be considered as the notice to proceed, and agrees to complete the Work in accordance with the Construction Progress Schedule.

CONSTRUCTION PROGRESS SCHEDULE

If awarded this Contract, the undersigned:

Endorses the Construction Progress Schedule: _____

Amends the Construction Progress Schedule as follows:

INSURANCE AND ENDORSEMENTS REQUIREMENTS:
(Samples are attached to the Supplement to Instructions to Bidders)

Acknowledged By: _____

UNIT LABOR RATES

The undersigned further proposes and agrees that should the amount of work required be increased or decreased where unit prices have not been established, the following labor rates will be the basis for any change order proposal. Labor rates are to include all direct costs without mark-up as defined in Article 7.3 of the General Conditions. Prior to contract award, if requested by the Construction Manager, the successful bidder shall provide documentation substantiating the proposed labor rates.

SUBMIT IN TRIPLICATE

Job Classification	Hourly Rate	Benefits	Employer's Liability	Payroll Taxes	Total

FEES FOR ADDITIONAL WORK

1. There will be a fee of 10% applied to the total cost of materials purchased and work completed by a contractor's own forces. This percentage represents both overhead and profit.
2. There will be a fee of 5% applied to the total cost of work completed by a subcontractor. This percentage represents both overhead and profit.

CREDIT FOR WORK DELETED

Should any work be deleted from Contract by order of the Owner, full cost savings realized thereby will be credited to Owner.

FAMILIAL DISCLOSURE

See Page 6 of this Bid Form for required statement.

AFFIDAVIT OF COMPLIANCE

See Page 7 of this Bid Form for required statement.

SAFETY SUPPLEMENT FORM

The apparent low bidder(s) will be required to complete this form and submit to the project manager no later than (3) days after the bid opening or at the time of the post bid interview. Based on the information supplied Owen-Ames-Kimball Co. may require further safety measures at no additional cost prior to award if warranted.

SUBMIT IN TRIPLICATE

AGREEMENT

The undersigned agree(s) to provide the post-bid information required within (10) days after notification of the Notice of Award and to execute an agreement for work covered by this Proposal on AIA Document A132-2019, *Standard Form of Agreement Between Owner and Contractor Where the Basis of Payment is a Stipulated Sum*.

In submitting this bid, it is understood that the Owner reserves the right to reject any or all bids. It is further agreed that this bid is binding for a period of sixty (60) days from the opening thereof.

Respectfully submitted,

Date _____, 2026

Firm Name _____

By _____

Signed _____

Title _____

Official Address _____

(If a corporation, affix seal)

Telephone No. (____) _____ ext. _____

E-Mail Address _____

Contact Information if there are questions about bid:

Name: _____

Direct or Mobile Phone: _____

E-Mail: _____

SUBMIT IN TRIPLICATE

Familial Disclosure Statement
(Must be completed for bid to be considered)

In accordance with Section 1267 of the Revised School Code this bid must be accompanied by a sworn and notarized statement disclosing any familial relationship between the Owner or any employee of the Bidder and any member of the District's Board of Education or Superintendent of the District.

___ No, there is not a familial relationship between the Owner or any employee of the Bidder and any member of the District's Board of Education or Superintendent of the District.

___ Yes, there is a familial relationship between the Owner or an employee of the Bidder and a member of the District's Board of Education or Superintendent of the District. The person(s) and relationship are as follows:

<i>Owner/Employee Name</i>	<i>BOE member or Superintendent Name</i>	<i>Familial Relationship</i>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Contractor: _____
(Name of Contractor)

By: _____

Title: _____

Date: _____

County of: _____ State of: _____

This instrument was acknowledged before me on the _____ day of _____, 2026,

by, _____, Notary Public

_____ County, _____.

My Commission Expires: _____

Acting in the County of: _____

SUBMIT IN TRIPLICATE

Affidavit of Compliance – Iran Economics Sanctions Act
(Must be completed for bid to be considered)

Michigan Public Act No. 517 of 2012

The undersigned, the owner or authorized office of the below-named contractor (the "Contractor"), pursuant to the compliance certification requirement provided in the Portage Public Schools ("the School District") Request for Proposals For Amberly Elementary School ("the RFP"), hereby certifies, represents and warrants that the Contractor (including its officers, directors, employees) is not an "Iran linked business" within the meaning of the Iran Economics Sanctions Act, Michigan Public Act No.517 of 2012 ("the Act"), and that in the event Contractor will not become an "Iran linked business" at any time during the course of performing any services under this contract.

The Contractor further acknowledges that any person who is found to have submitted a false certification is responsible for a civil penalty of not more than \$250,000.00 or 2 times the amount of the contract or proposed contract for which the false certification was made, whichever is greater, the cost of the School District's Investigation, and reasonable attorney fees, in addition to the fine. Moreover, any person who submitted a false certification shall be ineligible to bid on a request for proposal for three (3) years from the date determined that the person had submitted the false certification.

Contractor:

(Name of Contractor)

By: _____

Title: _____

Date: _____

County of: _____ State of: _____

This instrument was acknowledged before me on the _____ day of _____, 2026,

by, _____, Notary Public

_____ County, _____.

My Commission Expires: _____

Acting in the County of: _____