INVITATION FOR BIDS
CCK-2470-20
ADDENDUM # 3
04/16/2020

ATTENTION: This is not an order. Read all instructions, terms and conditions carefully.

IMPORTANT: BID AND ADDENDUM MUST BE RECEIVED BY 04/23/2020 @ 3:00 P.M. LEXINGTON, KY TIME

Bidder must acknowledge receipt of this and any addendum as stated in the Invitation for Bids.

1. Please refer to and incorporate within the offer, the attached bid documents for Addendum #3.

OFFICIAL APPROVAL
UNIVERSITY OF KENTUCKY

Procurement Manager / (859) 323-5405

SIGNATURE

________________________________________
Typed or Printed Name

University of Kentucky
Purchasing Division
322 Peterson Service Building
Lexington, KY 40506-0005
UK Student Center Space 2 – Dining Facilities Expansion Project
BID PACKAGE – 03a
ADDENDUM No. 3
CCK-2470-20
04/15/2020

Item 1. Revise Form of Proposal TC-007 Masonry, Scope of Work, line item 14.e to read as follows:

- This contractor to include all material and labor on exterior side of building for all thermal insulation, fluid-applied air barrier, zee purlin, etc. for complete weather tight system behind all masonry. This contractor to include all fluid-applied air barrier behind all metal panel complete. This contractor to coordinate all terminations at openings with corresponding trades.

Item 2. Revise Form of Proposal TC-008 Curtain Wall, heading to correct project: Pages 1-15:

TURNER CONSTRUCTION COMPANY  UK STUDENT CENTER DINING EXPANSION

Attachment “B”  UK PROJECT 2530.0

SCOPE OF WORK

TC-008 – CURTAIN WALL & METAL PANELS

Item 3. Revise Form of Proposal TC-008 Curtain Wall, Scope of Work, line item 17.a to read as follows:

- a) Assembly clarification: This contractor to install all components “outside of the gypsum sheathing” as shown on the details. This includes rigid insulation, vented hat channels, metal panels, flashing, trims, reglets, sealants, fluid-applied air barrier, zee purlin, panel cleat, etc. For all areas with masonry, air barrier and insulation board will be by others

Item 4. Revise Form of Proposal TC-008 Curtain Wall, Scope of Work, line item 17.c to read as follows:

- c) Ref detail 10/A-7.2; 1/A-7.3 (and sim.) this contractor to include vented hat channel; 07 2100 board insulation; include zee purlins; include flashing and channels to underside of roofing. Include 07 6200 all material and labor for stainless steel flashings. This contractor to include all formed metal fascia and soffit panels as shown but not limited to details on A-7.4.

Item 5. Revise Form of Proposal TC-008 Curtain Wall, Scope of Work, line item 21 to read as follows:

- 21) Provide Material and Labor for LOUVERS AND VENTS as shown on the Contract Documents and in accordance with Section 08 9119. This contractor to coordinate installation with TC-021 Mechanical contractor. Reference spec 23 1100 for related work.

Item 6. Revise Form of Proposal TC-008 Curtain Wall, BID BREAKOUT sheet, remove “Glass Canopy”

- See new BID BREAKOUT sheet, this sheet to be included in Bid Submittal.

Item 7. Revise Form of Proposal TC-010 Roofing & Flashing, Scope of Work, edit header to read as follows:

- All sheets Header should read: TC-010 – Roofing & Flashing

Item 8. Revise Form of Proposal TC-010 Roofing & Flashing, Scope of Work, add the following specification section under E.1.Division 7:

- SECTION 07 7129 – MANUFACTURED ROOF EXPANSION JOINTS
**Item 9.** Revise Form of Proposal TC-010 Roofing & Flashing, Scope of Work, line item E.13.a.i to read as follows:

- i. Include demolition of existing roofing systems assemblies, parapet caps, flashing systems, etc. as shown. Include temporary roofing systems at all locations shown in which existing roofing, flashing systems, coping, parapets, and all like systems are removed to maintain weather-tight conditions at the existing building.

**Item 10.** Revise Form of Proposal TC-010 Roofing & Flashing, Scope of Work, line item E.13.a.ii to read as follows:

- ii. Demolition of roof and flashing systems at Stair T to be completed at CM's direction. Coordinate demolition with adjacent trades to maintain weather-tight conditions at the existing building. Coordinate dry-in conditions with mason as new stair structure is constructed. This work will not occur at the same time as the new roof installation. Stair is to remain open and operational as emergency egress path throughout all construction activities.

**Item 11.** Revise Form of Proposal TC-010 Roofing & Flashing, Scope of Work, line item E.20 to read as follows:

- This contractor shall provide all ROOF ACCESSORIES as shown on contract documents and as specified in Section 07 7200.

**Item 12.** Revise Form of Proposal TC-011 General Trades, Scope of Work:

- Numbering items out of sequence, replace pages 12-18 with new Scope of Work pages 12-19 complete.

**Item 13.** Revise Form of Proposal TC-011 General Trades, Scope of work, change Project Title to read as follows:

- Project Title: **UK STUDENT CENTER DINING EXPANSION**

**Item 14.** Revise Form of Proposal TC-014 Drywall & Ceilings, Scope of Work, add line item E.24.i to read as follows:

- Include brace framing for knee walls not otherwise shown with miscellaneous metal supports.

**Item 15.** Revise Form of Proposal TC-014 Drywall & Ceilings, Scope of Work, line item E.25 to read as follows:

- This contractor shall provide all GYPSUM BOARD and GYPSUM SHEATHING as shown on contract documents and as specified in Sections 09 2900 and 06 1600. Include all labor, materials, equipment, supplies, transportation to complete this work, including but not limited to:

**Item 16.** Revise Form of Proposal TC-014 Drywall & Ceilings, Scope of Work, add line item E.25.k to read as follows:

- k. Include removal, rework and installation of new of ceiling as necessary for above ceiling work as shown on the contract drawings

  i. For reference, but not limited to, see sheet M-2.1h and A-6.1h.

**Item 17.** Revise Form of Proposal TC-014 Drywall & Ceilings, Scope of Work, section E.26.e.a to read as follows:

- a. In areas that that show MEP overhead work within extents of existing 4’x4’ tile, include removal of 4’x4’ tile, grid, and accessories.

**Item 18.** Revise Form of Proposal TC-014 Drywall & Ceilings, Scope of Work, line item E.26.e.a.ii to read as follows:

- ii. Include installation of new 4’x4’ tile, grid and accessories in these areas at the direction of the Construction Manager.
Item 19. Revise Form of Proposal TC-014 Drywall & Ceilings, Scope of Work, add line item E.26.e.b to read as follows:

- b. Include removal, rework and installation of new ceiling as necessary for above ceiling work as shown on the contract drawings
  
i. For reference, but not limited to, see sheet E-3.0b,d and E-3.0e,f.

Item 20. Revise Form of Proposal TC-014 Drywall & Ceilings, Scope of Work, add line item E.27.d to read as follows:

- d. Include removal, rework and installation of new of ceiling as necessary for above ceiling work as shown on the contract drawings
  
i. For reference, but not limited to, see sheet M-2.1h.

Item 21. Revise Form of Proposal TC-020 Plumbing, Allowances, add line item 4 to read as follows:

- 4. $23,500 TAP Fee Allowance
  
i. Include in Bid Breakout Sheet for TC-020 to include TAP Fee Allowance at Bid

Item 22. Revise Form of Proposal TC-022 Electrical & Integrated Technology, Scope of Work, line item 36 to read as follows:

- 36) Provide five (5) additional CAT6A data cables drop assuming 250’ in length for data, building controls and lighting control. Terminate at device and DATA closets panels. Coordinate with TC-021 HVAC Controls contractor.

Item 23. Revise Form of Proposal TC-022 Electrical & Integrated Technology, Scope of Work, add line item 73 to read as follows:

- 73) This contractor shall provide material and labor complete to provide pathways with pull string for soda beverage conduit. Reference Food Service drawings for locations. No underground pathways will be allowed.

Item 24. Revise Form of Proposal TC-025 Food Service, Scope of Work, line item 22 to read as follows:

- This contractor shall provide JOINT SEALANTS (COMPLETE) as required for this scope of work and as shown on the contract documents and in accordance with specification section 07 9200.

Item 25. For COVID-19 Bid Opening will be provided by a Zoom Meeting, Link to Virtual Bid Opening will be provided at [www.uky.edu/purchasing/bidlist.htm](http://www.uky.edu/purchasing/bidlist.htm) on the bid due date (under the project name) for access to a virtual public bid opening.
Fill in the following breakdown of costs included in your base bid. Each item is to include labor, material & equipment. These will not be considered unit prices nor will the numbers listed here limit obligations required in the bid documents. It will be used only to aid in verifying completeness of the bids.

<table>
<thead>
<tr>
<th>DESCRIPTION OF WORK</th>
<th>COST INCLUDED IN BID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering &amp; layout, Permits &amp; Fees, Shop drawings and submittals</td>
<td>$________________________</td>
</tr>
<tr>
<td>Mobilizations</td>
<td>$________________________</td>
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<tr>
<td>METAL WALL PANELS &amp; SOFFIT PANELS</td>
<td>$________________________</td>
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<tr>
<td>GLAZED ALUMINUM CURTAIN WALL</td>
<td>$________________________</td>
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<tr>
<td>DOORS, HARDWARE, &amp; OPERATORS</td>
<td>$________________________</td>
</tr>
<tr>
<td>INTERIOR GLASS &amp; GLAZING</td>
<td>$________________________</td>
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<tr>
<td>FIXED LOUVERS</td>
<td>$________________________</td>
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<tr>
<td>General Work Requirements (Section F Items)</td>
<td>$________________________</td>
</tr>
<tr>
<td>Remaining work not listed above, Overhead &amp; Profit</td>
<td>$________________________</td>
</tr>
<tr>
<td>Safety</td>
<td>$________________________</td>
</tr>
<tr>
<td><strong>TOTAL BID AMOUNT (SHOULD MATCH PROPOSAL)</strong></td>
<td>$________________________</td>
</tr>
</tbody>
</table>

Cost of Performance and Payment Bond

**DO NOT INCLUDE THIS COST IN YOUR BID**
Attachment A – Additional Provisions and Attachment B – (Technical) Scope of Work go together to define the requirements of this Subcontract. Attachment A is a more of a general Summary of the Contract Documents, Price, etc, while Attachment B is the Trade Specific (technical) Scope of Work.

The work of this Agreement shall include, but not be limited to, all labor, materials, apparatus, hoisting, rigging, tools, equipment, plant, supplies, accessories, samples, submittals, shop drawings, certifications, engineering, layout, transportation, storage, supervision, temporary construction, special services, contributions, insurance, taxes (unless specifically excluded by the Contract Documents), compliance with all governing agencies (city, county, state, federal and others as may be required), permits, fees, all other services and facilities and other items necessary for the performance of the General Trades Work as shown, detailed and/or implied in the contract documents outlined in the General Scope of Work.

The Scope of Work Document is being provided for your use as a general guideline. Please note, this Document is not all-inclusive. It is this Subcontractor's responsibility to provide a complete bid, including all work for this trade indicated on ALL of the contract documents (include plans, specifications, Bid Manual, etc). It is this Subcontractor's responsibility for the entire scope of this Bid Package and coordination between all trades.

E. WORK INCLUDED - SCOPE-SPECIFIC ITEMS

1) Trade Specifications Specifically Included, but not limited to the following:

DIVISION 00 – PROCUREMENT & CONTRACTING REQUIREMENTS (ALL SECTIONS)
DIVISION 01 – GENERAL REQUIREMENTS (ALL SECTIONS)
DIVISION 02 – EXISTING CONDITIONS
   SECTION 02 4119 – SELECTIVE DEMOLITION
DIVISION 03 – CONCRETE
   SECTION 03 3000 – CAST-IN-PLACE CONCRETE (as related to scope of work)
DIVISION 05 – METALS
   SECTION 05 5000 – METAL FABRICATIONS (as related to scope of work)
   SECTION 05 5813 – COLUMN COVERS (as related to scope of work)
   SECTION 05 7300 – DECORATIVE METAL RAILINGS AND GATES
   SECTION 05 7313 – GLAZED DECORATIVE METAL RAILINGS
   SECTION 05 7500 – DECORATIVE FORMED METAL
DIVISION 06 – WOODS, PLASTICS & COMPOSITES
   SECTION 06 1053 – MISCELLANEOUS ROUGH CARPENTRY
   SECTION 06 1600 – SHEATHING
   SECTION 06 4116 – PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS
DIVISION 07 – THERMAL AND MOISTURE PROTECTION
   SECTION 07 2100 – THERMAL INSULATION (as related to scope of work)
   SECTION 07 7129 – MANUFACTURED ROOF EXPANSION JOINTS (as related to scope of work)
   SECTION 07 8413 – PENETRATION FIRESTOPPING (as related to scope of work)
   SECTION 07 8443 – JOINT FIRESTOPPING (as related to scope of work)
   SECTION 07 9100 – PREFORMED JOINT SEALANTS
   SECTION 07 9200 – JOINT SEALANTS
   SECTION 07 9219 – ACOUSTICAL JOINT SEALANTS
   SECTION 07 9500 – EXPANSION CONTROL
DIVISION 08 – OPENINGS
SECTION 08 1113 – HOLLOW METAL DOORS AND FRAMES
SECTION 08 1416 – FLUSH WOOD DOORS
SECTION 08 3113 – ACCESS DOORS AND FRAMES (as related to scope of work)
SECTION 08 3815 – FOODSERVICE DOUBLE-ACTING TRAFFIC DOORS
SECTION 08 4113 – ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
SECTION 08 7100 – DOOR HARDWARE
SECTION 08 8000 – GLAZING (as related to scope of work)
SECTION 08 8113 – DECORATIVE GLASS GLAZING
SECTION 08 8300 – MIRRORS

DIVISION 10 – SPECIALTIES
SECTION 10 2113.17 – PHENOLIC-CORE TOILET COMPARTMENTS
SECTION 10 2600 – WALL AND DOOR PROTECTION
SECTION 10 2800 – TOILET, BATH AND LAUNDRY ACCESSORIES
SECTION 10 4413 – FIRE PROTECTION CABINETS
SECTION 10 4416 – FIRE EXTINGUISHERS
SECTION 10 4420 – AUTOMATED EXTERNAL DEFIBRILLATORS (AED) DEVICES / CABINETS
SECTION 10 7113 – EXTERIOR SUN CONTROL DEVICES

DIVISION 12 – FURNISHINGS
SECTION 12 2413 – ROLLER WINDOW SHADES
SECTION 12 3661.16 – SOLID SURFACING COUNTERTOPS
SECTION 12 9300 – SITE FURNISHINGS

a) Bidder shall also include referenced specification sections listed in above specification sections as necessary to furnish complete work of this trade

b) Subcontractor includes all work indicated in specification COMPLETE, unless this scope of work specifically and clearly excludes a portion of a specification.

2) Contract Price is LUMP SUM. There shall be NO additional labor and material escalations allowed

3) Examination of Site – Subcontractor warrants that they have sufficiently reviewed the project site to inform themselves of all items about existing site that are relevant to their work, and the cost of their work.

4) Include protection all adjacent structures during performance of this work. Plan for protection of adjacent structures must be part of the overall plan submitted for approval prior to start of work.

5) SITE LOGISTICS: Refer to the Site Logistics plans included in the Contract Documents. Delivery trucks are to be scheduled with Turner at least one (1) week in advance.

6) Subcontractor change order requests shall be provided with sufficient detail (as acceptable to Turner) to allow for satisfactory review. Subcontractor shall be allowed a maximum mark up for overhead and profit per the markup provisions included in the Subcontract Agreement, or as clarified in Contract Documents above.

7) Subcontractor understands that time is of the essence in the prosecution of Work under this agreement.

8) Verify layout provided by others. Where this subcontractor is performing work using layout provided by others, this subcontractor shall perform sufficient verification of that layout to reasonably ascertain the validity of that layout. Any deficiencies (or suspected deficiencies found) shall be reported to Turner immediately to allow corrections as needed before start of work by this subcontractor.

9) All Subcontractors must be licensed as required by local, State, or Federal jurisdiction required for work of this trade in this project location.

10) This Subcontractor will comply with Turner’s corporate safety policy and comply with Site Specific Safety Plan that will include but is not limited to 100% tie-off above 6 feet, 100% Safety Glasses, High Visibility Vests or High Vis style T-Shirts with reflective strips, 100% glove policy, Ladders Last Policy and Nothing Hits the Ground. If you are unfamiliar with any of these policies please ask to see the policy prior to submitting your bid. Failure to be familiar with these policies will not exclude you from complying with them.
11) **Refer to Project General Work Requirements** in volume one of the project manual. Any costs for work scope items listed in this section shall be included in your lump sum bid. Some work items are listed for specific trade contractors and they shall include those costs in their respective total lump sum bid price.

12) Keynote legend will help dictate your scope of work unless noted otherwise.

13) **Interim provisions:**
   a) Clean-up (site & street sweeping) refer to (Section F – General Work Requirements). This contractor to include 200 labor hours and $4,000 material for misc., dewatering, erosion control, grass maintenance, project fence coordinated with Construction Manager.
   b) This contractor to include 250 carpenter hours and $3,000 material for general site condition, unforeseen conditions, etc. to be scheduled and directed by the construction manager.
   c) This contractor to provide four (4) aerial photos per month, contact McKendrick-Lee Photography (513-382-3933) for pricing and execution. Provide photographs and aerials from May 1st, 2020 thru July 1st, 2021.
   d) This contractor to include concrete placement for SOG & SOMD for 500 sq. ft. for 6” thick slab. This contractor to include $5,000 for misc. steel angles as directed by the Construction Manager. This contractor to include 40 hours of a welder (welder to have welding certificates) to be use at the direction of the construction manager.

14) Maintain all environmental protection including, but not limited to erosion control, inlet protection and adequate dust control. This Trade Contractor must perform all erosion control work required by all local, state, and federal regulatory including SWPPP agencies. Reference project drawings and specifications for silt fence and silt trap details. Removal of silt fencing and inlet protection will be by this contractor near project completion. Erosion control shall include the temporary seeding of all disturbed areas at the conclusion of each stage of work. This contractor is to perform weekly maintenance of all SWPPP; and shall conduct inspections, repairs, and documentation to Turner after all rain events greater than one-quarter inch of rain. Utilize Turner reporting form and file all completed reports with construction manager within one day after the rain event. Maintain this work from May 1, 2020 until June, 2021.

15) **Provide Rent and Maintain temporary public access egress stair** as shown on ‘SD’ drawings. Layout has changed from SD drawings. Contact Bill Kinniard with Brand Safeway at 859.243.0270. Maintain anti-slip adhesive strips on all treads and landings. Include all required scaffold inspections. Provide stair for use on the project form ~ May 01, 2020 through project completion. This stair is already in place and no other stair will be allowed to be substituted.
   a) This contractor is to include all the work necessary (complete) and as shown on SD-1.2F to maintain the temporary public access stair. This contractor to include all material and labor to remove temporary stairs, remove temporary door in existing curtain wall, replace glazing complete with dried in condition at temporary door opening (ref plan view and detail 5/SD-1.2F for details).

16) This contractor shall include **SELECTIVE DEMOLITION** as shown on the Contract Documents and in accordance with DIVISION 02. This contractor to include all selective demo as shown on Demolition SD Sheets which includes but not limited to:
   a) This contractor to exclude item 14, 18 on SD-1.1F, item 4, 5, 12, 15
   b) This contractor to include protection of existing finishes as shown on SD Sheets.
   c) This contractor to include removal and preparation for steel pipe guardrail.
   d) This contractor to provide all demo and cleanup of parapet wall per note 2 on SD-1.2F. All work to be coordinated with Construction Manager.
   e) This contractor to provide removal of existing curtain wall system complete per note 16 on SD-1.2F. All work to be coordinated with Construction Manager. This work will be performed after the new building is in a dried-in condition.

17) This contractor shall include **Miscellaneous Metal Division 05** as related to your scope of work.
   a) This contractor to provide all in-wall and sink support metal fabrication. Reference 05 5000 keynote on detail 15/A-5.7
   b) This contractor to provide ship ladder in mechanical penthouse.
   c) This contractor to provide all metal fabrication at parapet wall locations. Reference detail but not limited to 6/A-7.1h
   d) This contractor to provide all metal fabrications for roof hatch opening. Reference details but not limited to 9/A-7.2
   e) This contractor to provide all metal fabrications surrounding penthouse louver. Reference details but not limited to 6/A-7.4

18) This contractor shall include **Decorative Metal Railings, Gates, Glazed Decorative Metal, Decorative Formed Metal Railings** as shown on the contract documents in accordance to section 05 7300, 05 7313 & 05 7500 which includes but not limited to:
a) This contractor to provide all exterior and interior stainless steel rail as shown on documents.

b) This contractor to provide all glazed decorative metal railing as shown on documents. Coordinate new railing with existing for a continuous transition.

c) This contractor to provide all Decorative Formed Metal as shown on documents. All work to be coordinated with flooring contactor.

19) This contractor shall provide MISCELLANEOUS ROUGH CARPENTRY as shown on the Contract Documents and in accordance with section 06 1053 which includes but not limited to:

a) All blocking for casework, toilet accessories, marker and bulletin boards, TV brackets, handrails, grab bars, corner guards, wall & ceiling-mounted equipment, owner furnished contractor installed items, owner furnished owner installed items and food service equipment.
   i. Provide fire treated material where required by the KBC.
   ii. Provide pressure-treated blocking at exterior locations as shown or as required for warranty system performance.

b) All blocking required (where explicitly shown on the Contract Documents or not) for "your" divisions of work and installation of items in this scope of work.

c) Provide ALL “window sill” wood blocking.

d) Provide ALL “formed aluminum coping” wood blocking.

e) Provide ALL “louver” wood blocking.

f) Provide ALL “interior in-wall” wood blocking.

g) Provide ALL “roof and parapet” wood blocking.

20) This contractor shall provide Sheathing as shown on the Contract Documents and in accordance with section 06 1600 which includes but not limited to:

21) All exterior sheathing non gypsum to be provided by this contractor.

22) This contractor to include all exterior wood sheathing as shown on the drawings.

23) This contractor to include all block, this includes all in-wall blocking required by food service equipment. This contractor should reference all QF Sheets for food service drawings.

24) This contractor shall provide Plastic-Laminated-Faced Architectural Cabinets as shown on the Contract Documents and in accordance with 06 4116 & 12 3661.16 which includes but not limited to:

25) All restroom countertops, base cabinets and plumbing cover panels.

26) This contractor to provide all PL-9 Plastic laminate per typical detail but not limited to 4/A-6.5.

27) This contractor shall provide all INSULATION (AS RELATED TO THIS SCOPE OF WORK) as shown on contract documents and as specified in Section 07 2100 Insulation.

28) This contractor shall provide FIRESTOPPING (AS RELATED TO THIS SCOPE OF WORK) as shown on the Contract Documents and in accordance with Section 07 8413 and 07 8443.

29) This contractor shall provide JOINT SEALANTS as shown on the Contract Documents (partial for this work scope) and in accordance with SECTION 07 9100, 07 9200 and 07 9219.

30) This contractor shall provide EXPANSION CONTROL as shown on the Contract Documents and in accordance with SECTION 07 7129 & 07 9500.

31) Include all interior expansion control systems as well as exterior wall expansion control systems; rated and non-rated.

32) Coordinate installation of exterior wall and soffit expansion systems with roof expansion control systems to ensure that wall transitions are watertight.

33) Include ALL floor expansion joint assemblies. Coordinate with TC-014 Drywall Trade Contractor for same manufacture. Installation of floor expansion joints includes non-gypsum grout/concrete. Coordinate with floor finishes and respective Trade Contractors.
34) This contractor to include all fire-resistive joint system per typical but not limited to 6/A-7.3.

35) This contractor to include all fire rated roof-to-wall joint assembly per typical but not limited to 4/A-7.3

36) This contractor shall provide HOLLOW METAL DOORS (with PRE-INSTALLED HARDWARE*) & FRAMES (FOB jobsite) as shown on the Contract Documents and in accordance with specification section 08 1113.

   1) Storage & Delivery (frames): At the construction manager's direction ship FRAMES. Project site is limited on lay down space and will need to receive individual floors for shipments. Doors will be the same and will ship at a later date than frames.

   2) Hollow Metal Frames will be set by TC-007 or TC-014 as related to their scope of work.

   3) All Hollow Metal Doors will be installed by this contractor.

37) This contractor (TC-011) shall provide FLUSH WOOD DOORS (with PRE-INSTALLED HARDWARE*) as shown on the Contract Documents and in accordance with specification section 08 1416.

   a) Undercutting of doors will be required - coordinate the exact dimension with Turner Project Superintendent.

   b) This contractor is to provide a shim pack for all door openings (shipped loose with each door package). Provide shims appropriate for each type of hinge for use by TC-011 General Trades installation in the field.

   c) Shipment of wood doors shall be made in delivers based on the project areas. Coordinate with construction manager. Shipment to occur after soft flooring work activity start. Receive and inventory, layout, shake-out and set, concrete wall frames / sidelights and borrowed lights; coordinate inventory with Construction Manager. Drill and provide anchors; grout if specified by documents. Include bracing and door spreaders at sills, middle spans and head conditions to stabilize and eliminate frame deflection if applicable.

   d) This contractor to install all glazing required in wood or metal doors.

   e) Receive and inventory, shake-out and hang, ALL hollow metal and wood doors; coordinate inventory with Construction Manager.

   f) Frames mounted in GWB partitions will be installed by TC-014 Drywall and Ceilings.

   g) Frames mounted in masonry partitions will be installed by TC-007 Masonry.

   h) Discard all packaging, skids, etc. to site dumpster unless instructed otherwise by hardware/door supplier.

   i) Remove and reinstall various pieces of hardware to allow for Painting. MEP contractors to make final wiring connections. TC-011 contractor to include installation of "loose" hardware into the frame and not include as "pre-installed" such as devices mounted on/in the frame (i.e. shear locks, door contact) or after the door is mounted (i.e. closer). Coordinate installation with TC-022 Electrical & Technology contractor.

   j) Include shimming of all doors to maintain required gap. Shims to be included (shipped loose) by TC-013 Doors and Hardware supplier.

38) This contractor shall furnish DOOR HARDWARE as shown on the Contract Documents and in accordance with specification section 08 7100.

   a) PRE-INSTALLED HARDWARE: Doors shall be shipped FOB jobsite with PRE-INSTALLED HARDWARE*.

   i. Pre-install door hardware in accordance with the hardware specifications but given the following exceptions/conditions: All hardware (closer arm & cover & frame shoe, floor closers, frame strike plates, wall & floor stops, weather stripping, thresholds, floor plates, door bottoms, wall/door mags, frame silencers) attached to the walls, floor or frame is packaged "loose" with each door. Hinges are pre-installed on door. Automatic door operators are shipped separate from doors. Inspect door and hardware, address manufactures errors & omissions before shipping FOB jobsite. Cylinders (cores) are pre-installed in hardware before shipping.

   ii. Pre-installed door hardware means that all wiring is installed and connected to the hardware for all secure, and non-secure doors. The intent of the pre-installed hardware is for the door/hardware assembly to be installed without having to remove the pre-installed hardware for any "future installation."

   iii. This contractor is to coordinate with Electrical, Integrated Technology and other applicable contractors to provide a complete installation of each door opening.

   b) All electrified doors (as part of the hardware set) are to include an electrified termination box to be installed above ceiling of each door. Each termination box is to include termination bars, grounding lugs, termination connections, etc.
and a sticker on the front cover detailing the wiring layout of each opening. The purpose is to provide a "clean" connection point for all systems for each opening. Reference ACSI part # 1400-26083950 for pricing purposes.

c) This contractor should expect to lead multiple onsite meetings over the first half of the project in order to coordinate the doors, hardware and keying information for this project. This is very important to the project and high expectation is expected.

d) This contractor is also to include costs to “troubleshoot” door and hardware problems/issues at the end of the project. Hardware consultant is to act as a resource to solve door opening issues.

e) Provide ten (10) BEST keyway cores for access panel doors. Coordinate with construction manager for specific keying information.

f) Provide FIVE (5) ea. temporary construction cores (compatible with BEST) with 3 keyed separately from the total (two separate keyways needed). Turn over to the construction manager with a total of 15 keys (5 for each lock).

39) This contractor shall provide FOOD SERVICE DOUBLE-ACTING TRAFFIC DOORS as shown on the Contract Documents per SECTION 08 3815

40) This contractor shall provide GLAZING & DECORATIVE GLASS GLAZING as shown on the Contract Documents per SECTION 08 800 & 08 8113. Install as shown on the Contract Documents and in accordance with the specifications.

   a) All Glazing and finishes within the cab of elevator will be by Elevator Contractor. This contractor to include all Decorative Glass as shown at all other locations.

41) This contractor shall provide ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS as shown on the Contract Documents per SECTION 08 4113. Install as shown on the Contract Documents and in accordance with the specifications.

42) Include all necessary blocking for a complete system.

43) Include all joint sealants and backer rod.

44) Include all misc. steel support as needed.

45) This contractor shall provide and install MIRRORS as shown on the Contract Documents and in accordance with section 08 8300.

46) See ‘Toilet Accessory Schedule’ for more detail.

47) This contractor shall provide FOODSERVICE GLASS FIBER REINFORCED PLASTIC PANELS as shown on the Contract Documents and in accordance with SECTION 09 7733.

48) Reference Finish Plan and Food Service drawings for required locations.

49) This contractor shall provide TOILET COMPARTMENTS as shown on the Contract Documents and in accordance with SECTION 10 2113.17.

50) This contractor shall provide WALL AND DOOR PROTECTION as shown on the Contract Documents and in accordance with SECTION 10 2600.

51) This contractor shall provide TOILET ROOM ACCESSORIES as shown on the Contract Documents and in accordance with SECTION 10 2800.

52) This contractor shall provide FIRE PROTECTION CABINETS as shown on the Contract Documents and in accordance with SECTION 10 4413.

53) This contractor shall provide FIRE EXTINGUISHERS as shown on the Contract Documents and in accordance with SECTION 10 4416.

54) This contractor shall provide AED DEVICES / CABINETS as shown on the Contract Documents and in accordance with SECTION 10 4420.

55) Location to be determined by Architect.

56) This contractor to provide 1 additional job site use AED from May 2020 through June 2021.

57) This contractor shall provide EXTERIOR SUN CONTROL DEVICES as shown on the Contract Documents and in accordance with SECTION 10 7113.

58) Reference building elevations for locations.

59) Coordinate timing of installation with Construction Manager.
60) This contractor shall provide ROLLER WINDOW SHADES as shown on the Contract Documents and in accordance with SECTION 12 2413

61) This contractor is to provide office supplies to construction manager for project use during project. Multipurpose 20lb office paper and (4) cases of (5) reams each (total – not monthly) of 11"x17" Multipurpose 20lb office paper for duration of project. Paper to be similar to HP Multipurpose Ultra White 161 Whiteness

62) This contractor is to provide once per week cleaning services for the CM/AE/Owner offices located on-site from June 1st, 2020 through project FINAL project completion. This shall be “professional” in nature providing high sanitary conditions. Approximately 1,500 SF of office space. Cleaning shall consist of sweeping and mopping floors, taking out trash, restocking paper supplies in the restrooms, cleaning plumbing fixtures, furnish paper supplies for restrooms, replacing trash can liners, etc.

63) This contractor is to provide and maintain a floor scrubbing/sucking machine (sim. to Global® Auto Floor Scrubber 26") for the final nine (9) months of the project to be used by all contractors, cleanup crew, etc. This machine’s primary function is to be available to cleanup an accidental water leak from construction activity. TC-011 will be responsible for maintaining an adequate charge of this machine’s battery. Yard boss will be in charge of running daily for all floors.

64) This contractor to include mosquito control around project break area. Include (3) mobilizations to have area professionally sprayed.

65) This contractor to include $5,000 for miscellaneous site signage and 60 hours of labor for signage and maintenance.

66) This contractor to include $5,000 for door, door frame, etc. repairs due to construction activities and to recondition existing doors and frames, etc.

67) This contractor to include watering of lay down and temporary road for dust control of gravel areas. This contractor to include all material, equipment and labor necessary. This will be performed daily.

68) This contractor to include all demo and removal of temporary wall as shown SD-1.1f note 18 and SD-1.2F note 18.

69) This contractor to include all material, labor and equipment for removal of all gravel and filter fabric in lay down area. Reference Attachment I Site Logistics.
   a) All areas plan east and south of the existing parking lot consist of filter fabric and gravel base.
   b) This contractor to figure all hall off will be within 20 mile radius of project site. Location will be provided by Construction Manager.
   c) This will work will happen at the conclusion of the project.

F. CONSTRUCTION SCHEDULE

Contract Price is based on the project schedule included in Bid Manual and as clarified within these Additional Provisions.

G. WORK EXCLUDED

This Scope of Work shall exclude the following

1) Payment & Performance Bond

H. ALTERNATE PRICES

Alternates shall be complete for providing only the Work with no other credits. All alternate prices are to be priced as stand-alone alternates. Any number of alternates, or no alternates, may be accepted as part of this Work. Indicate Add/Deduct Price on the BID FORM

1) None

I. ALLOWANCES

The following Allowances are to be included in the base bid:

1) N/A

The above allowances are to be included in the base bid/Subcontract Price. All overhead and profit related to the Work performed under each Allowance is to be included in the Base Bid/Subcontract Price. Only direct Labor and Material costs authorized in writing by the Construction Manager after approval by the Owner are to be charged to the Allowance. Progress Payments will be made against Allowance expenditures, based on approved monthly invoices & writing Allowance Authorization from the Construction Manager/Owner. Any unused funds remaining in these allowances will be credited back to the Project.

J. UNIT PRICES
The following unit prices are applicable for changes in the Work. The unit prices are for Work complete and in place and include all costs such as material, labor, equipment, freight, taxes, insurance, fringe benefits, and overhead and profit. Also include costs for coordination with other trades work where applicable. In the event the unit prices quoted exceed industry standards or fair market value, the Turner reserves the right to request pricing for changes at cost plus allowable mark-up for overhead and profit or a lump-sum under the terms of the Agreement.

1) **Labor Rates** - Submit detailed labor rates to Turner Project Manager for approval. Detail shall show all fringes, benefits, taxes, insurance, markups, and any other add-ons to allow verification of rate.
   - See “Form of Proposal” (Bid Form) for bid day information. The apparent low bidder will submit detailed breakdown within 24 hours after bid day.

2) **Equipment Rates** – Submit detailed rates for equipment that may be used on project, and may be part of change order pricing.

END OF TECHNICAL SCOPE OF WORK
BID BREAKOUT

Fill in the following breakdown of costs included in your base bid. Each item is to include labor, material & equipment. These will not be considered unit prices nor will the numbers listed here limit obligations required in the bid documents. It will be used only to aid in verifying completeness of the bids.

<table>
<thead>
<tr>
<th>DESCRIPTION OF WORK</th>
<th>COST INCLUDED IN BID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering &amp; layout, Permits &amp; Fees, Shop drawings and submittals</td>
<td>$________________________</td>
</tr>
<tr>
<td>Mobilizations</td>
<td>$__________________</td>
</tr>
<tr>
<td>Sanitary Piping System</td>
<td>$__________________</td>
</tr>
<tr>
<td>Building Water Systems</td>
<td>$__________________</td>
</tr>
<tr>
<td>Building Storm Systems</td>
<td>$__________________</td>
</tr>
<tr>
<td>Storm Water Detention Chambers</td>
<td>$__________________</td>
</tr>
<tr>
<td>Insulation</td>
<td>$__________________</td>
</tr>
<tr>
<td>Installation of Owner-furnished equipment</td>
<td>$__________________</td>
</tr>
<tr>
<td>Temporary Installations, General Req’s Items</td>
<td>$__________________</td>
</tr>
<tr>
<td>Testing</td>
<td>$__________________</td>
</tr>
<tr>
<td>Test and Balance</td>
<td>$__________________</td>
</tr>
<tr>
<td>Commissioning Participation</td>
<td>$__________________</td>
</tr>
<tr>
<td>MEP Coordination / BIM</td>
<td>$__________________</td>
</tr>
<tr>
<td>BIM 3-D Server allowance</td>
<td>$__________________</td>
</tr>
<tr>
<td>Alterations allowance</td>
<td>$__________________</td>
</tr>
<tr>
<td><strong>TAP Fees allowance</strong></td>
<td><strong>$ 23,500</strong></td>
</tr>
<tr>
<td>Temporary Water Consumption Allowance</td>
<td>$__________________</td>
</tr>
<tr>
<td>Firestopping</td>
<td>$__________________</td>
</tr>
<tr>
<td>General Work Requirements</td>
<td>$__________________</td>
</tr>
<tr>
<td>Remaining work not listed above, Overhead &amp; Profit</td>
<td>$__________________</td>
</tr>
<tr>
<td>Safety</td>
<td>$__________________</td>
</tr>
</tbody>
</table>

**TOTAL BID AMOUNT (SHOULD MATCH PROPOSAL)**  $__________________

Cost of Performance and Payment Bond  $__________________

*DO NOT INCLUDE THIS COST IN YOUR BID*
# Written Questions and Answers

## CCK-2470-20

Improve Student Center Space 2 – Dining Facilities Project BP-03

<table>
<thead>
<tr>
<th>No.</th>
<th>Question</th>
<th>Turner</th>
<th>CMTA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>What is the budget on the General Trades package?</td>
<td>Total Project $15.1M</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>I am estimating the plumbing portion of the above mentioned job and I have a question. On P-2.2h Level 2 the bathrooms tell us to go to the blowups on P-3.2 and those clearly state that we are to rough in for the waste and vent for future fixtures. I assume that we should do the same for the bathrooms on level 3?? If you look at the Soil Waste and Vent Riser diagram on P-5.3 it does not even show those toilet rooms being roughed in. Do those toilet room on level 3 get roughed in or not??</td>
<td>No rough-ins are required for Level 3. Rough-ins are to be provided on Level 2 as indicated on sheet P-3.2.</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>In the mechanical insulation specifications it states that exposed piping in mechanical rooms, penthouses, etc. shall be field finished with canvas jacketing over the fiberglass pipe covering. Are the mechanical rooms and penthouses the only places that will require canvas jacketing on the pipe insulation or does exposed piping throughout the building require a canvas jacket finish? An example would be the exposed heating hot water pipe going to reheat coils in the Champions Kitchen Dining C111. We are also assuming that work installed in the shell spaces areas will not require a canvas jacket finish as these areas will be finished in the future and likely end up concealed. Please advise.</td>
<td>Refer to subsection 4.3 of the referenced specification section for definition of concealed and exposed for the finished areas of the project. To briefly summarize if pipe is visible in finished areas a canvas jacket is to be provided. Correct, the shell space areas will be concealed in the future finishes project.</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Are we required to submit the Record of MBE/WBE Solicitation Form filled out and completed with the bid?</td>
<td>Yes, this is to be included with Bid.</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Line Item 10 of the Advertisement for Bids indicates that Contractors who utilize Minority Enterprise Subcontractors or Material Suppliers must round of their contract amount to the nearest $500.00. Please clarify. Do you review our subcontract agreements and require us to round up for the applicable subcontractors/vendors?</td>
<td>Contractors to exclude rounding.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Written Questions and Answers</td>
<td>Turner</td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>--------------------------------</td>
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</tr>
<tr>
<td>6.</td>
<td>General Requirements Line Item 69 indicates twenty four trash cans written out, but indicates (12) numerically. Please advise which is correct.</td>
<td>Turner</td>
<td>(12) twelve</td>
</tr>
<tr>
<td>7.</td>
<td>General Requirements Line Item 70 indicates fourteen mobile trash carts written out, but indicates (10) numerically. Please advise which is correct.</td>
<td>Turner</td>
<td>(10) Ten</td>
</tr>
<tr>
<td>8.</td>
<td>Please confirm we will be required to obtain and utilize Autodesk BIM360?</td>
<td>Turner</td>
<td>Autodesk BIM360 funds to only be included by TC’s who’s alterations are called out in Attachment B</td>
</tr>
<tr>
<td>9.</td>
<td>I understand each Trade Contractor is responsible for their own Office and/or Storage Container. Will the General Trades TC-011 Contractor be required to provide a field office? If not, do you suggest for this project that one be utilized for General Trades?</td>
<td>Turner</td>
<td>TC-011 is not required to provide a storage container. Not minimal laydown will be provided.</td>
</tr>
<tr>
<td>10.</td>
<td>Are we required to pay a fee for eComm?</td>
<td>Turner</td>
<td>No.</td>
</tr>
<tr>
<td>11.</td>
<td>The General Requirements indicate Yard Boss requirements as (5) 8-hr days/week and (1) 8-hr day for standard work week. Please clarify. Are you indicated that the Yard Boss will be required (6) days a week, with a total of 48 hours?</td>
<td>Turner</td>
<td>48 hour total work week.</td>
</tr>
<tr>
<td>12.</td>
<td>Please confirm the General Trades TC-011 contractor will not be required to install the Site Perimeter Fencing, as I understand it is already installed?</td>
<td>Turner</td>
<td>Site fencing previously installed.</td>
</tr>
<tr>
<td>13.</td>
<td>For the Textura-CPM Fee, the specifications indicate 0.22% of contract value. Is this 0.22% fee in addition to the costs of procuring the Textura-CPM payment management system? Or do you procure the software and this 0.22% of our contract amount gets deducted from our contract?</td>
<td>Turner</td>
<td>The 0.22% of contract value is intended to cover the cost of the system.</td>
</tr>
<tr>
<td>14.</td>
<td>For the Textura-CPM Fee, the Project General Requirements indicate a maximum fee of $3,750.00, however, Attachment “A” Additional Provisions indicate the maximum fee is $2,500.00. Please clarify which is correct.</td>
<td>Turner</td>
<td>The maximum fee is $3,750.00.</td>
</tr>
<tr>
<td>15.</td>
<td>Attachment “A” Additional Provisions indicate the Architect procures the General Building Permit. Does this include the Plan Review Fee, Building Permit and TAP Fees?</td>
<td>Turner</td>
<td>Arch will provide General Building Permit, Plan Review and Building Permit. SS and Sewage TAP fees to be included as allowance for TC-020; Reference question 82.</td>
</tr>
<tr>
<td>16.</td>
<td>What is the cost for the TurnerTracker account?</td>
<td>Turner</td>
<td>No cost to the contractors.</td>
</tr>
<tr>
<td>17.</td>
<td>The General Trades TC-011 Scope of Work indicates Engineering &amp; Layout is required. Is this just for our respective scopes of work, or for other Trade Contractors as well?</td>
<td>Turner</td>
<td>TC-011 Respective scope of work.</td>
</tr>
<tr>
<td>18.</td>
<td>The General Trades TC-011 Scope of Work indicates Permits &amp; Fees are required. Is this for our respective scopes of work only, or will the General Trades contractor be responsible for the Building Permit Fee’s as well?</td>
<td>Turner</td>
<td>TC-011 Respective scope of work.</td>
</tr>
<tr>
<td>19</td>
<td>The General Trades TC-011 Scope of Work indicates Shop Drawings and Submittals as a scope requirement. Please confirm the General Trades contractor will only be responsible for the scopes of work we are responsible for.</td>
<td>Turner</td>
<td>TC-011 Respective scope of work.</td>
</tr>
<tr>
<td>20</td>
<td>Please confirm the temporary stairs are already installed and the General Trades contractor will be responsible for taking over rent for the duration of the project.</td>
<td>Turner</td>
<td>Taking over rent and removal at completion of project.</td>
</tr>
<tr>
<td>21</td>
<td>What Janitorial Services will be required of the General Trades contractor? Is this just in reference to the Temporary Port-O-Lets the General Trades contractor is required to provide?</td>
<td>Turner</td>
<td>Reference TC-011 requirement in scope of work and general requirements.</td>
</tr>
<tr>
<td>22</td>
<td>Please confirm what Selective Demolition the General Trades contractor will be responsible for.</td>
<td>Turner</td>
<td>Reference Selective Demolition in scope of work for TC-011</td>
</tr>
<tr>
<td>23</td>
<td>Will the Foodservice Decorative Formed Metal 057501 scope be required in the TC-025 Food Service scope of work, or the TC-011 General Trades scope of work?</td>
<td>Turner</td>
<td>TC-025</td>
</tr>
<tr>
<td>24</td>
<td>What Trade Package will be responsible for 078100 Applied Fire Proofing?</td>
<td>Turner</td>
<td>Refer to Scopes of Work as related to each TC package.</td>
</tr>
<tr>
<td>25</td>
<td>What Trade Package will be responsible for 078413 Penetration Firestopping?</td>
<td>Turner</td>
<td>Refer to Scopes of Work as related to each TC package.</td>
</tr>
<tr>
<td>26</td>
<td>What Trade Package will be responsible for 079219 Acoustical Joint Sealants?</td>
<td>Turner</td>
<td>Refer to Scopes of Work as related to each TC package.</td>
</tr>
<tr>
<td>27</td>
<td>What Trade Package will be responsible for 079500 Expansion Control?</td>
<td>Turner</td>
<td>Refer to Scopes of Work as related to each TC package.</td>
</tr>
<tr>
<td>28</td>
<td>What Trade Package will be responsible for 083113 Access Doors and Frames?</td>
<td>Turner</td>
<td>Refer to Scopes of Work as related to each TC package.</td>
</tr>
<tr>
<td>29</td>
<td>Please confirm 083815 Foodservice Double-Acting Traffic Doors will be the responsibility of TC-025 Food Service?</td>
<td>Turner</td>
<td>To be provided by TC-011</td>
</tr>
<tr>
<td>30</td>
<td>What Trade Package will be responsible for 089119 Fixed Louvers?</td>
<td>Turner</td>
<td>TC-008 Curtain Wall</td>
</tr>
</tbody>
</table>
| 31 | Please give further explanation for the section in the TC-025 scope for food service as these sections don’t appear in our fse documents. Also the serving counter are by the GC according to our plans.  
- Section 06 1053 miscellaneous rough carpentry  
- Section 06 4116 plastic-laminate faced architectural cabinets  
- Section 12 3661.16 solid suracing countertops  
- Section 12 3661.19 quartz agglomerate counter tops  
- Section 12 9300 site furnishings | Turner | TC-025 to include all misc. rough carpentry, plastic laminate faced arch. cabinets, solid surfaced countertops and quartz counter tops as it relates to food service drawings, serving counters, etc. |
<table>
<thead>
<tr>
<th>No.</th>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>32</td>
<td>ITEM 23.3 water filter for the qty of 2 is not in the spec, can you please provided the spec to quote from for this items?</td>
<td>Tipton Item #23.2, Water Filter should Be an Everpure Model # EV932421</td>
</tr>
<tr>
<td>33</td>
<td>ITEM 23.3 BAG N BOX is also missing from the spec can you confirm this by others?</td>
<td>Tipton 23.3 is a Bag-in-box syrup dispenser that is provided by University’s separate vendor</td>
</tr>
<tr>
<td>34</td>
<td>ITEM 30.1 in spec is item 30.2 on plans, can you provide the spec for item 30.1 Booster heater spec to quote from.</td>
<td>Tipton The Booster Heater is built-in To item #30, Dishwasher</td>
</tr>
<tr>
<td>35</td>
<td>ITEM 33 is calling for 2 in the spec and 3 on the plans which is correct?</td>
<td>Tipton Quantity 3 is correct</td>
</tr>
<tr>
<td>36</td>
<td>Please allow the bid package TC-025 to be exempt from the mbe /wbe 10% goal as we will only be using a install crew of 2 people and 1 fire guy.</td>
<td>Turner MBE/WBE is a goal not a requirement</td>
</tr>
<tr>
<td>37</td>
<td>With everything going on with the Covid-19 may we email our bids?</td>
<td>Turner Physical bids have to be delivered to UK purchasing office before bid date and time. Mailing bids will be acceptable, but contractor is responsible for delivery. No electronic bids will be accepted.</td>
</tr>
<tr>
<td>38</td>
<td>For bidding purposes, please define &quot;project completion&quot; date as stated in general requirements and throughout scope.</td>
<td>Turner Substantial completion is 6/23/2021; Final Completion to be 30 days after.</td>
</tr>
<tr>
<td>39</td>
<td>General Requirements #33-C, will temporary heat be required on 3rd floor and Penthouse? Will electrical connection to suitable power be supplied by TC-022? Will owner provide usage costs?</td>
<td>Turner Yes, Electrical will be provided by TC-022; Electrical Consumption will be covered by allowance. All other usage cost to be included by TC-011</td>
</tr>
<tr>
<td>40</td>
<td>Please provide the number of dumpsters that can be accommodated on-site?</td>
<td>Turner Three (3)</td>
</tr>
<tr>
<td>41</td>
<td>General Requirements #54, clarify Yard Boss hours. (5) 8 hour and (1) hour exceeds #41 “normal forty hour work week&quot;.</td>
<td>Turner 48 Hours Total Work Week</td>
</tr>
<tr>
<td>42</td>
<td>General Requirements #69, clarify trash can quantity, 12 or 24?</td>
<td>Turner 12</td>
</tr>
<tr>
<td>43</td>
<td>General Requirements #70, clarify trash cart quantity, 10 or 14?</td>
<td>Turner 10</td>
</tr>
<tr>
<td>44</td>
<td>TC-011 Scope #38, define size and location of “project break area&quot;.</td>
<td>Turner 4000 sq ft</td>
</tr>
<tr>
<td>45</td>
<td>TC-011 Scope #15-a, this work description was included on BP1 TC-002. Has the work been performed and this is double scope? If included in</td>
<td>Turner Refer to new Scope of Work for TC-011; Pages 12-19</td>
</tr>
<tr>
<td></td>
<td>Written Questions and Answers</td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>-----------------------------</td>
<td>---</td>
</tr>
<tr>
<td>46</td>
<td>BP3, please clarify &quot;permanent in nature&quot; (wood, HM, storefront?)?</td>
<td>Turner  Refer to new Scope of Work for TC-011; Pages 12-19</td>
</tr>
<tr>
<td>47</td>
<td>TC-011 Scope #16-a, clarify items 4, 5, 12, 15 are to be excluded or included?</td>
<td>Turner  TC-011 to include all expansion joints that are not at finished drywall, finished ceiling, roof expansions, or at finished masonry</td>
</tr>
<tr>
<td>48</td>
<td>TC-011 Scope #21-A, &quot;Include all interior expansion control systems as well as exterior wall expansion control systems; rated and non-rated&quot;. Please clarify scope for TC-011 as TC-007, TC-008, and TC-014 include expansion control systems for their respective installations.</td>
<td>Turner  Refer to new Scope of Work for TC-011; Pages 12-19</td>
</tr>
<tr>
<td>49</td>
<td>TC-011 Scope #23, &quot;This contractor shall provide GLAZING &amp; DECORATIVE GLASS GLAZING as shown on the Contract Documents per SECTION 08 800 &amp; 08 8113.&quot; Please clarify scope for TC-011 as includes glazing in accordance with 08 800.</td>
<td>Turner  Refer to new Scope of Work for TC-011; Pages 12-19</td>
</tr>
<tr>
<td>50</td>
<td>Please verify that restroom finishes on levels 2&amp;3 are future work and are not included in BP3.</td>
<td>Omni  Restrooms finishes on floors 2 and 3 to be future work.</td>
</tr>
<tr>
<td>51</td>
<td>Detail 6/A-7.1h, provide spacing on 3x3x3/8 tube steel.</td>
<td>Omni  Refer to addendum drawing S-4.5 &quot;Framing Sections&quot; for miscellaneous steel required at parapet framing as indicated.</td>
</tr>
<tr>
<td>52</td>
<td>Please clarify elevation details on 1/A-5.5 and 2/A-5.5 as they do not correspond to details on A-5.6.</td>
<td>Omni  Elevation markers are corrected. Refer to updated addendum drawing A-5.5.</td>
</tr>
<tr>
<td>53</td>
<td>Notes on A-5.5 and A-5.6 regarding BP2, what does &quot;miscellaneous metals&quot; refer to? Brushed stainless steel panels (MTL-1)?</td>
<td>Omni  Elevator interior finishes will be provided under BP2. Disregard MTL-1 on the elevator elevation. This is provided by the elevator subcontractor under BP-2.</td>
</tr>
<tr>
<td>54</td>
<td>8/A-5.6. 9/A-5.6, does decorative glass inside elevator belong to BP2?</td>
<td>Turner  Decorative Glass inside of the elevator is provided in BP2.</td>
</tr>
<tr>
<td>55</td>
<td>TC-011 Scope #32 &quot;Provide AED devices/cabinets as shown on contract documents&quot;, &quot;location to be determined by architect&quot;. Please quantify AED’s for bidding purposes as the locations are not shown on plans.</td>
<td>Omni  One AED Cabinet. Refer to addendum drawing A-1.1h for location.</td>
</tr>
<tr>
<td>56</td>
<td>Specification Section 107113, clarify &quot;one bay&quot; size for mockup purposes?</td>
<td>Omni  We will accept one (1) 8'-0&quot; section of the shade as a bay. See detail 1/A-5.8.</td>
</tr>
</tbody>
</table>

**Specification Section 107113, 2.4 Sunshade Construction refers to outriggers and fascia tube. Details 2/A-5.8 & 7/A-5.8 show outrigger**

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<thead>
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</thead>
<tbody>
<tr>
<td>57</td>
<td>Specification Section 107113, clarify &quot;one bay&quot; size for mockup purposes?</td>
<td>Omni  Sunshade shall be a complete system with outriggers and fascia as indicated in specification. System shall attach to architectural exposed</td>
</tr>
<tr>
<td>Written Questions and Answers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------------------</td>
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</tr>
<tr>
<td><strong>Page 6</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>and fascia to be BP2 structural steel. Please clarify.</td>
<td>structural steel framing member that is provided bid package #2 trade contractor. Refer to updated addenda drawing A-5.8.</td>
<td></td>
</tr>
<tr>
<td><strong>57</strong></td>
<td>Turner Correct</td>
<td></td>
</tr>
<tr>
<td>Please verify all Food Service associated casework, millwork, plastic laminate, solid surface, countertops, etc. are included in TC-025 as shown on SF &amp; QF plan pages and specification section 114000.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>58</strong></td>
<td>Turner Refer to Attachment B CCIP Program</td>
<td></td>
</tr>
<tr>
<td>Please clarify the extent of deductible that we are required to cover for the Builders Risk Insurance that the Construction Manager will be carrying.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>59</strong></td>
<td>CMTA Fire smoke dampers are to be provided as shown on M-1.3h.</td>
<td></td>
</tr>
<tr>
<td>Drawing M-1.3h shows fire smoke dampers in both the 20x14 grease duct and the 16x16 dishwasher exhaust ducts. It is not common to put these dampers in ducts carrying grease or moisture. Can you please confirm that fire smoke dampers are required in these locations?</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>60</strong></td>
<td>CMTA Ducts with “DW” indicate dual wall ductwork. As indicated in general note “E” all ductwork in C111 shall be double wall with paint grip finish.</td>
<td></td>
</tr>
<tr>
<td>There are a lot of rectangular ducts downstream of VAV’s on M-1.1h. There are some round branch ducts off of these rectangular ducts that also have the “DW” in the tag signifying dual wall on them but others have no designation including size. Can you confirm that if a duct is not tagged with a “DW” it is not intended to be dual wall?</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>61</strong></td>
<td>CMTA The shell space areas will be concealed in the future finishes project. Supply ducts on M-1.2h and M-1.3h are not to be dual wall construction.</td>
<td></td>
</tr>
<tr>
<td>One of the items in spec section 231200 2.21 B. calls for supply ducts exposed to view to be made of dual wall construction. Can you confirm that all of the supply ducts on M-1.2h &amp; M-1.3h that are ran in areas marked as a shell space which will be exposed to view are to be made of dual wall construction?</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>62</strong></td>
<td>Omni Disregard. No glass canopy on this project. Use new Bid Breakout for TC-008</td>
<td></td>
</tr>
<tr>
<td>TC-008- Curtainwall and metal panels, description of work Glass canopy. I didn’t see a specification Section for Glass Canopy or its location on the architectural drawings, please advise, Thanks.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>63</strong></td>
<td>Omni Curtainwall, spandrel panels, and closure panels: finish is to match Duranar XLBC UC106708LB “Graphite Gray” Sunshade control devices are to match Duranar XL UC51595XL “Medium Grey”.</td>
<td></td>
</tr>
<tr>
<td>2.11A1/084413- Glazed Curtainwalls, states match color: Duranar XL UC51595XL “Medium Gray”. Then at 2.3B4/084413- finish match color: Duranar XLBC UC106708LB “Graphite Gray”. Which finish will be utilized?</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>64</strong></td>
<td>Turner TC-011</td>
<td></td>
</tr>
<tr>
<td>Whom is responsible for Demo of any Curtainwall or storefronts?</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>65</strong></td>
<td>Omni GL-32-is to be used at spandrel glass locations as indicated on elevations.</td>
<td></td>
</tr>
<tr>
<td>1/A-4.2- Insulated spandrel panel is called out, but on the Curtainwall elevations A-8.3 GL-32 is used at the spandrel conditions which is glass with a spandrel coating on surface number 4, per 088000-Glazing. Which will be used this project?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Page</td>
<td>Written Questions and Answers</td>
<td></td>
</tr>
<tr>
<td>------</td>
<td>------------------------------</td>
<td></td>
</tr>
<tr>
<td>66</td>
<td>F/084413- Custom Closure Panel, is this to be used at all GL-32 Spandrel Glass openings at the interior?</td>
<td>Omni</td>
</tr>
<tr>
<td>67</td>
<td>On Drawing M-2.2h note H3 says “route chilled water piping up to mechanical room A3.12. Refer to level 3 – Hydronics – area H for continuation.” The continuation of this piping is not shown on that drawing, can you please clarify.</td>
<td>CMTA</td>
</tr>
<tr>
<td>68</td>
<td>Spec section 231200 2.21 D. lists Eastern, United McGill, Semco or approved equivalent for the low velocity double wall ductwork. Spec Section 231200 3.3 for high velocity single wall round and oval and 3.5 A. for high velocity double wall ductwork lists United McGill, Semco, Dixie, Eastern, Langdon or approved equivalent for these ducts. Historically these manufacturers have been higher priced with longer lead times than other fabricators that also manufacture these types of duct per SMACNA standards as well as this projects specifications. Can these specs be changed to read that these ducts shall be “manufactured to the stricter of either SMACNA standards or the project specifications” instead of listing these manufacturer’s?</td>
<td>CMTA</td>
</tr>
<tr>
<td>69</td>
<td>Spec section 231200 2.21 F. calls for the inner shell to be perforated and 231200 2.21 G. calls for the inner shell to be solid. Please clarify what material the inner shell should be constructed of.</td>
<td>CMTA</td>
</tr>
<tr>
<td>70</td>
<td>2.9A/084113-Interior storefronts and doors: Clear anodized finish. 1.10A-B/084113-Warranty states 5 years materials and 20 years finish warranty. Maximum finish warranty on Anodized materials is 10 years, please advise, Thanks.</td>
<td>Omni</td>
</tr>
<tr>
<td>71</td>
<td>TC-008- Curtain wall and metal panels, alternates #1 states Mechanical screens. Specification Section 0123000- Alternates list zero alternates. It states alternates will be issued by addenda, please advise, Thanks.</td>
<td>Turner</td>
</tr>
<tr>
<td>72</td>
<td>TC-008- Curtain wall and metal panels, who has final hookup of the electrical Door hardware for the aluminum doors, in Curtain wall and Storefronts?</td>
<td>Turner</td>
</tr>
<tr>
<td>73</td>
<td>At Roof area C and Roof area F where the new screen wall is being added. Are the existing roof systems under a current and active warranty, is so do you know who the manufacturer is that holds the current warranty?</td>
<td>Omni</td>
</tr>
<tr>
<td>74</td>
<td>Due to the amount or work being performed please consider moving the Lap Seam Panels at the Penthouse and New Screen Wall into the roofing package, this way any damages to the new roof will be the sole responsibility of the roofer.</td>
<td>Turner</td>
</tr>
<tr>
<td>75</td>
<td>Will interfacing the fire alarm system to Tridium be required? a. We have been told recently that this was not necessary.</td>
<td>CMTA</td>
</tr>
<tr>
<td>76</td>
<td>Will the temporary fire alarm system be fully functional with heat detectors throughout the addition?</td>
<td>CMTA</td>
</tr>
<tr>
<td>77</td>
<td>Will the temporary heat detectors be required to be relocated and will more be required once walls are put up?</td>
<td>CMTA</td>
</tr>
<tr>
<td>78</td>
<td>Do you want us to provide cellular monitoring of the temporary system?</td>
<td>CMTA</td>
</tr>
<tr>
<td>79</td>
<td>Do you want us to provide an independent fire alarm control panel (FACP) in the addition space in order to bring the addition up separate from the existing student center fire alarm system? a. We can utilize the temporary fire system cellular dialer in order to monitor the FACP until it is ready to be tied to the existing student center fire system.</td>
<td>CMTA</td>
</tr>
<tr>
<td>80</td>
<td>Can we utilize a wireless system for the temporary fire / heat detection system?</td>
<td>CMTA</td>
</tr>
<tr>
<td>81</td>
<td>TC-022 Scope of work item #27 states that the TC-022 contractor is responsible for conduit/raceways for ALL low-voltage installations. Item #26 states that TC-021 will be responsible for controls conduit and cabling. Typically, the mechanical contractor (TC-021) is responsible for BAS conduit and cable. Is TC-021 responsible for conduit and cabling for the BAS (HVAC controls)?</td>
<td>Turner</td>
</tr>
<tr>
<td>82</td>
<td>Has the SS and Water tap fees been addressed? If there is any tap fees can these be paid by owner?</td>
<td>Carman</td>
</tr>
<tr>
<td>83</td>
<td>On plan page P2.3h Plumbing. Is these restrooms (310 and 350) get fixtures in this bid package?</td>
<td>CMTA</td>
</tr>
<tr>
<td>84</td>
<td>Can we bid the Plumbing and HVAC in a combo bid?</td>
<td>Turner</td>
</tr>
<tr>
<td></td>
<td>Project schedule in spec book says 365 days but in the special conditions (which usually trumps everything) says 525 days until completion. Can this be clarified? This would greatly affect our cost / overhead.</td>
<td>Turner</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>
| 86 | Special Conditions article 2 says contractor is responsible for Sanitary Sewer Tap Fee to the LFUCG.  
I called LFUCG and spoke with Chris. He says they have not aware of this project and wasn't sure about a tap fee, but there would be a capacity fee of $0.72/SF.  
Can this matter be clarified in addendum or an allowance be given for SS tap fee issue. LFUCG seemed to be a little confused about project. | Carman | Contractor is to carry a Sanitary Tap fee allowance of $23,500. See question #82. |
ADDENDUM NUMBER THREE

Bidders shall conform to the following changes, as same shall become binding to the Bid Documents for the purpose of bidding.

PRODUCT DATA

For all of the product information listed below, Bidders are reminded that the listing of a manufacturer in this document is in no way an endorsement or approval of the manufacturer’s products, nor is it a waiver of any specified criteria. All bidders must comply with the criteria originally specified.

1. **Reference Specification 07 2726 “Fluid-Applied Membrane Air Barriers”**: W.R. Meadows “Air Shield LSR” may be listed as a manufacturer of Fluid Applied Membrane Air Barriers.

2. **Reference Specification 10 2113.17 “Phenolic-Core Toilet Partitions”**: HDPE Toilet partitions will not be accepted as a substitute for Phenolic-Resin Toilet Compartments.

CORRECTIONS AND CLARIFICATIONS:

3. **Reference Special Conditions, Article 2**: Contractor is to carry a $23,500 allowance for LFUCG Sanitary Tap Fee.

4. **Reference Specification 03 3000 “Cast-in-Place Concrete” 2.5 Liquid Floor Treatments**: Sealed Concrete Floor Finish (SC-1) on the A-10 series sheets is to reference this specification section for concrete floor sealer.


6. **Reference Specification 07 2129 “Spray Acoustic Insulation”**: It is the intent for the ceiling to be finished black. At the contractors option a tinted spray acoustic insulation can be provided.

7. **Reference Specification 08 4413 “Glazed Aluminum Curtainwalls”**: Section 2.11 A: correction:
   a. Curtail wall framing, spandrel panels, and closure panels: Match color: Duranar UC106708LB XLBC “Graphite Gray”.
   b. Sun control devices: Match color: Duranar XL UC51595XL “Medium Grey”

8. **Reference Specification 11 4000 “Food Service Equipment”**: Schedule of Equipment Items 10, 10.1, and 11 for the Hood and Ansul System shall be eliminated from the specification 11 4000. The foodservice exhaust hood system shall be per mechanical drawings and specifications.


10. **Reference drawing sheets A-7.5 “Mechanical Screen Plans and Details” and SD-7.1f “Selective Demo Roof Plan – Area F”**: All work associated with the mechanical screen as shown on sheets A-7.5 and SD-7.1f shall be included as Add Alternate #1 in bid package #3.

11. **Refer to revised drawing A-1.4h “Level 04 Dimension Plan - Area H”**: The door swing will be changed on doors PHC401.2 and PHC401.1 as shown on revised drawing A-1.4h.

12. **Refer to revised drawing A-1.1h “Level 01 Plan – Area H”**: Location of AED Device is shown on floor plan as specified in specification section 10 4420.

13. **Refer to revised drawing A-5.8 “Canopy Plan & Details”**: Vertical sun shade keynote on detail 1/A-5.8 shall be keynote 08 4413-05 Vertical Sun-Shades as an accessory to curtain wall.
14. Reference drawing A-8.4 “Curtainwall Details”: Keynote 064023-04 “Solid Surfacing Sills” on detail 3/A-8.4 shall be changed to the keynote 12 3661.16-01 “Solid Surfacing Adhered to Top of Wall”.

15. Refer to revised drawing A-0.3 “Wall Types & General Information”: Wall type 5 and 5A are added for interior masonry walls. Reference updated drawings A-1.1h “Level 01 Plan – Area H”, A-1.3h “Level 03 Plan – Area H”, and A-5.8 “Canopy Plan & Details” for locations of wall type 5 and 5A are provided. All partitions supporting interior face brick and limestone walls shall be Cold-Form Metal Framing per specification section 05 4000.

16. Refer to updated drawing A-6.5 “Ceiling Details”: Detail 10 & 11 added to sheet for roller shade in Conference Room A200E2 referenced on drawing A-6.2h “Level 02 Reflected Ceiling Plan”.

17. Refer to updated drawing A-10.2h “Level 02 Finish Plan - Area H”: The Level 02 Existing Pre-Function shall receive and integral epoxy resin terrazzo base on new construction that matches the existing terrazzo in the Existing Student Center Pre-Function. All new construction shall receive PT-1, matching the existing paint in the space.


19. Refer to updated Drawing SD-1.2f “Selective Demo – Level 02 – Area F”: Extents of limestone demolition performed on the existing Student Center updated to reflect field conditions.

20. Refer to updated drawing A-0.3 “Wall Types & General Information”: Wall type 3D to account for new anchored limestone masonry on the existing concrete wall. Clarification provided on the requirements for the existing sheathing. Existing sheathing that is to receive a new air barrier shall meet all the requirements for the air barrier warranty or the existing sheathing shall be replaced. Refer to updated sheet A-1.1h “Level 01 Plan – Area H” for location of new wall type 3D. Refer to updated sheet A-2.3 “Elevations” for location of Anchored Limestone Masonry on Existing Student Center on elevation 3/A-2.3.

21. Refer to updated drawing A-5.5 “Elevator Plans & Sections”: Updated elevation marker to reference correct interior elevation on plan details 1/A-5.5 and 2/A-5.5.

22. Food Service sheets QF701, QF702, QF703, and QF704 are to be omitted from the contract drawings. Omit typical detail of Hood and Ansul System from sheet QF601. Exhaust hood shall be per mechanical drawings and specifications.

23. Refer to updated drawing S-4.5 “Framing Sections”: Added detail J/S-4.5 for miscellaneous steel required at parapet framing as indicated.

24. Refer to new drawing S-4.8 “Suggested Cold-Formed Framing Details”: Cold-Form Metal framing typical details provided on drawing.

25. Refer to attached MEP addendum items.

End of Addendum #3
UNIVERSITY OF KENTUCKY STUDENT CENTER EXPANSION
ADDENDUM #3 - MEP  04/13/2020

Item #1  Refer to the Specifications, Section 220300 Plumbing Equipment
A.  Refer to the revised specifications section 220300 the added Duplex Grinder Pump specification.

Item #2  Refer to the Specifications, Section 230200 HVAC Equipment and Hydronic Specialties
A.  Refer to Subsection Part 2-Custom Air Handling Units, 2.15 Chilled Water Coils, C.
   i.  Omit “1. ½ inch tubes – a minimum wall thickness of 0.025”.
   ii.  Revise 5/8 inch tubes – minimum wall thickness to 0.035” in lieu of 0.020”.
B.  Add the following Subsection.
   VARIABLE FREQUENCY DRIVES
   i.  The work includes all labor, materials, and related items to completely furnish and mount the VFD. The controls contractor is responsible for all required start up and testing of the drives. All power wiring to the VFD shall be the responsibility of the electrical contractor. This shall include all drives shown on the drawings and described in the specifications.
   ii.  Variable Frequency Drives shall be Pulse Width Modulation adjustable frequency AC drives as manufactured by ABB, Allen Bradley, Eaton, or Danfoss. The drives shall be 6 pulse drives at a minimum, with 3% impedance. The drive and bypass unit shall be UL listed as a complete assembly.
   iii.  All VFD’s shall be able to communicate BACnet via MS/TP.
   iv.  Each drive shall include the following features:
   v.  Factory mounted fused disconnect for overcurrent protection.
   vi.  A selectable automatic/manual bypass feature. (For motors greater than 25 HP the bypass feature shall be provided with a solid state, “soft start” starter)
   vii.  Human interface module (HIM) keypad factory mounted (not hand held). Panel mounted Hand/Off/Auto switch to allow manually switching between hand (manual control via HIM); off (drive off, motor off; and automatic (control via temperature control signal).
   viii.  A panel mounted drive/bypass switch for manually selecting between drive (drive operation); and bypass (full bypass, motor at full speed operation). Both hand (manual control via HIM) and automatic (control via temperature control signal) shall be available as control methods in both drive and bypass modes.
   ix.  Air handling unit VFD’s shall include a fully redundant drive in lieu of the bypass. NOTE THAT THESE SHALL BE PROVIDED UNDER THIS TRADE CONTRACT AND IS NOT PROVIDED BY THE CONTROLS CONTRACTOR OR THE AHU MANUFACTURER.
   x.  A mechanical interlock between the bypass and drive contactors.
   xi.  A control transformer.
   xii.  UL/CSA/CE labeled.
   xiii.  The rectifier stage shall convert fixed voltage, fixed frequency, AC line power to fixed DC voltage. The input power section shall utilize a full wave bridge design incorporating diode rectifiers. The rectifier shall be insensitive to phase rotation of the AC line. The DC voltage shall be filtered. The DC bus shall have external connections for standby battery back-up or for linking multiple AC drive buses. The inverter shall change fixed DC voltage to variable frequency AC. The inverter shall utilize IGBT’s as required by the current rating of the motor.
   xiv.  The drives shall operate a variable torque load. The speed range shall be from a minimum of 0.5 Hz @ 100% breakaway torque to a maximum speed of 250 Hz.
   xv.  The drives shall have UL Type 1 listed enclosures that allow operation in a Pollution Degree 3 environment and shall meet NEMA Type 1/IP30 or NEMA Open/P20. The drives shall meet IEC 664-1 and NEMA ICS 1-111A Part 3 standards.
   xvi.  The drives shall be designed to operate in an ambient temperature of 0 degrees C to 40 degrees C.
   xvii.  The drives shall meet IEC 68-2-6 vibration specification.
   xviii.  Drives 75 HP and smaller shall be designed and constructed for finger safe operation with the enclosure open to operator access according to IP20 standards.
   xix.  The drives shall be designed to operate from an input voltage ranging from 380+-10% to 480 +-10%; and from an input frequency form 48 to 63 Hz.
   xx.  The displacement power factor shall not be less than 0.98 lagging under any speed or condition.
   xxi.  The efficiency of the AC drive at 100% speed and load shall not be less than 97%.
   xxii.  Variable torque over-torque capacity of 110% for 1minute.
   xxiii.  The output carrier frequency of the drive shall be randomly modulated and selectable at 4 kHz, or 8 kHz.
   xxiv.  The output frequency shall be from 0.1 to 400 Hz for AC drives up to 75 HP. At horsepowers above 75 HP, the maximum output frequency shall be 200 Hz.
   xxv.  Upon power-up, the drives shall automatically test for valid operation of memory, option module, loss of analog reference input, loss of communications, dynamic brake failure, DC to DC power supply, control power, and the pre-charge circuit.
xxvi. The drives shall be protected against short circuits between output phases; between output phases and ground; on the outputs, on the internal supplies, and on the logic and analog inputs.

xxvii. For a fault condition other than a ground fault, short circuit, or internal fault, an auto restart function will provide a minimum of 5 programmable time delays before restart attempts; trial time will range from 1 second to 180 seconds.

xxviii. The deceleration mode of the AC drive shall be programmable for normal and fault conditions. The stop modes shall include ramp to stop, free-wheel stop, fast stop, and DC injection braking.

xxix. A synchronized restart shall be provided that will catch a spinning motor by sensing the motor frequency and rotational direction and synchronize the AC output prior to restarting.

xxx. The drive shall be able to receive the control inputs for the smoke detection system to shut the fans down.

xxxi. The manufacturer shall offer 24 hour product and application response via a nationwide network of factory certified technical support personnel.

xxxii. A parts and labor warranty of 2 years from the date of substantial completion shall be included. Warranty shall include travel time and expenses.

xxxiii. Factory-authorized startup for each drive is mandatory. Provide a written record of the startup of each unit.

xxxiv. INSTALLATION: Install all equipment in accordance with the manufacturers’ recommendations. Drives are to be wall mounted.

xxxv. Start up and programming by a factory-authorized technician.

xxxvi. MAINTENANCE AND OPERATING INSTRUCTIONS: Provide one (1) hard copy and (1) electronic copy of maintenance and operating instructions for each piece of equipment furnished. The (1) hard copy shall be in a 3-ring binder, and both hard copy and electronic copy shall contain a copy of the approved shop drawings or catalog cuts of all equipment, as well as maintenance and operating instructions from the equipment manufacturers.

A parts and labor warranty of 2 years from the date of substantial completion shall be included. Warranty shall include travel time and expenses.

Item #3 Refer to the Specifications, Section 231200 Sheet Metal and Flexible Duct
A. Refer to Subsection 2.21 D. Add “S.H.A.P.E” as an approved equal double wall duct manufacturer.

Item #4 Refer to the Drawings, Sheet FP-0.0
A. Flexible drop type sprinkler heads are not allowed.

Item #5 Refer to the Drawings, Sheet P-0.0
A. Refer to revised plumbing fixture schedule for the added Yard Hydrant specification.

Item #6 Refer to the Drawings, Sheet P-2.1h
A. Provide two new yard hydrants as shown on revised plumbing plan.
B. Overflow roofleader shall pipe shall discharge at a height above the ceiling.
C. Remove and reinstall existing vent piping above level 1 ceiling for coordination with new ductwork and ceilings.
D. Refer to revised location for point of connection to the existing gas main.

Item #7 Refer to the Drawings, Sheet P-2.2h
A. Provide floor drain in elevator shaft floor slab and pipe waste pipe to mop basin below.

Item #8 Refer to the Drawings, Sheet P-3.1
A. Remove and reinstall existing vent piping above level 1 ceiling for coordination with new ductwork and ceilings.
B. Provide waste pipe from floor drain in elevator shaft floor slab above and discharge indirectly to mop basin.

Item #9 Refer to the Drawings, Sheet P-5.3
A. Refer to revised Soil, Waste and Vent Riser.

Item #10 Refer to Drawings, Sheet P-5.4
A. Grease waste Riser sheet added for reference.
B. Provide waste pipe from floor drain in elevator shaft floor slab above and discharge indirectly to mop basin.

Item #11 Refer to the Drawings, Sheet M-1.4h, Level 04 – Air Distribution – Area H
A. Refer to tagged note A18. The following should be included with the note. “Provide Hilti sleeves or approved equivalent for all elevated slab penetrations.”

Item #12 Refer to the Drawings, Sheet M-2.4h, Level 04 – Hydronics – Area H
A. Refer to tagged note H11. The following should be included with the note. “Provide Hilti sleeves or approved equivalent for all elevated slab penetrations.”

Item #13 Refer to the Drawings, Sheet M-4.2, Mechanical Details
A. Refer to AHU-13 Detail.
   i. Omit Tagged Note 12 for additional coil section with drain pan for future DX coil installation.
   ii. Coils are shown staggered; however, coils are not to be staggered for the unit.

Item #14 Refer to Electrical Specifications Section 260502
B. Revise paragraph 2.T to read: “Architectural dimming system and lighting controls.”

Item #15 Refer to Electrical Specifications Section 260610
A. Delete paragraph 2.i.2) Patch Cords. Patch cords will be provided by the Owner.

Item #16 Refer to Electrical Specifications Section 283100
A. Delete paragraph 2.1.L Smoke Evacuation.
B. Delete paragraph 2.4 Graphic Annunciator.

Item #17 Refer to Electrical Drawings Sheet E-5.2h, E-5.3h
A. Removed fireman phone jacks from all elevator landings.

Item #18 Refer to Electrical Drawings Sheets E-4.2f, E-4.2h, E-4.3f, E-9.1, E-10.2
A. Elevator disconnect to be provided by electrical contractor. Disconnect to be rated 480-volt, 3 phase, 100 amps, NEMA 1.
B. In existing distribution panel A310BEDP1, utilize existing 100A breaker to supply new elevator EL-J. Wires to be 3-#3 hot, 1-#3 neutral, 1-#8 ground in 1-1/4” rigid steel conduit. Power riser diagram and A310BEDP1 panel schedule corrected to reflect new design.

END OF ADDENDA ITEMS
SECTION 220300 - PLUMBING EQUIPMENT

PART 1 - GENERAL

1.1 All plumbing equipment shall comply with the latest provisions of KBC.

1.2 Functional Performance Testing and Commissioning - Major equipment and system startup and operational tests shall be scheduled and documented in accordance with Section 019113 Commissioning.

1.3 TRAINING: Training of the owner’s operation and maintenance personnel is required in cooperation with the Commissioning Authority. The instruction shall be scheduled in coordination with the Commissioning Authority after submission and approval of formal training plans. Refer to Section 019113 and the Commissioning Plan for further contractor training requirements.

PART 2 - SUMP PUMPS

2.1 Weil, Zoeller, B & G, or approved equivalent submersible sump pump, TDH. Furnish with mercury switch level control. Provide with light duty iron grate to cover sump pit opening, completely. Refer to schedule.

PART 3 – Indoor Duplex Prefabricated Grinder Pump System

1. Two (2) Zoeller Model 7111; 208 volt three phase grinder pumps with automatic reversing cutter action, 2.5“ flanged horizontal discharge, 5.0 hp oil filled motor, ductile iron vortex impeller, stainless steel cutter and plate, stainless steel shaft with tandem mechanical seals including moisture probes, thermal protection with sensors, powder coated epoxy cast iron housing, 25 foot power and sensor cords; Pump weight 245 lbs. Design point: 80 GPM at 32.3’ TDH. Assumes 180 ft. of 3” discharge piping with a 26 ft. elevation rise (from bottom of basin).

2. Two (2) 3” flanged cast iron check valves and two (2) 3“ flanged cast iron plug valves – field installed above the basin cover.

3. Two (2) 3“ flanged horizontal inlet x 3” flanged vertical outlet guide rail assemblies including base elbows, quick disconnect slide assemblies, 2” Sch. 40 stainless steel rail pipes, upper support brackets and 10 ft. stainless steel lifting cables – all factory assembled.

4. One (1) UL Listed 460 volt three phase duplex control panel with an electromechanical pump alternator, automatic reversing circuitry, H-O-A toggle switches and run indicator lights for each pump, motor protector each pump, high water alarm with light, horn and silence switch, control circuit transformer and breaker, dry alarm contacts, seal fail lights with adjustable relays, heat sensor fail lights, elapsed time meter and cycle counter per pump, float indicator lights; all housed in a lockable Nema 4X stainless steel enclosure. I

5. Three (3) 25’ weighted, normally open mechanical float switches and stainless steel float bracket (factory assembled).
6. **Start-up by a factory representative shall be performed once installation is complete.**

END OF SECTION 220300
ADDITIONAL SLAB EDGE REINF

SECTION

SEE Plan for ELEVATION

EXP LEVEL 3
SLAB CONSTRUCTION

C.F.S. DEFLECTION TRACK AT ALL LOCATIONS

SEE DET A/S

C.F.S. CONTRACTOR

EXP LEVEL 3
SLAB CONSTRUCTION

6" C.F.S. STUD BY

3/4" = 1'-0" S-4.5

SEE Plan for VERT WALL REINFORCING

ADDITIONAL SLAB EDGE REINF

SECTION

CONT BENT PL 1/4x4x5 1/2 L.D.V.

EXP JT

E.O.S.

ADDITIONAL SLAB EDGE REINF

3/16 2-12

EXP JT

E.O.S.

ADDITIONAL SLAB EDGE REINF

3/16 2-12

EXP JT

E.O.S.

ADDITIONAL SLAB EDGE REINF

3/16 2-12

EXP JT

E.O.S.

ADDITIONAL SLAB EDGE REINF

3/16 2-12

EXP JT

E.O.S.

ADDITIONAL SLAB EDGE REINF

3/16 2-12

EXP JT

E.O.S.

ADDITIONAL SLAB EDGE REINF

3/16 2-12

EXP JT

E.O.S.

ADDITIONAL SLAB EDGE REINF

3/16 2-12

EXP JT

E.O.S.

ADDITIONAL SLAB EDGE REINF

3/16 2-12

EXP JT

E.O.S.

ADDITIONAL SLAB EDGE REINF

3/16 2-12

EXP JT

E.O.S.
**ELECTRICAL POWER NOTES**

- REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
- CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECE PARTICLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
- RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).
- LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/Maintenance CLEARANCES OF EQUIPMENT BY OTHER TRADES.

**TAGGED NOTES**

- E18 DISCONNECT TO BE RATED 480 VOLT, 3 PHASE, 100 AMPS, NEMA 1. COORDINATE INSTALLATION WITH ELEVATOR VENDOR.
- E37 PROVIDE PULLBOXES FOR NEW CONDUITS AS REQUIRED. AVOID EXISTING SYSTEMS AND PROVIDE ADEQUATE SPACE FOR ACCESS AND MAINTENANCE.
- E38 CONTRACTOR RESPONSIBLE FOR FINAL ROUTING OF ALL NEW CONDUIT TO AVOID INTERFERENCE OF EXISTING SYSTEMS (TYPICAL).
- E45 FROM A310NSWBD2B, SUPPLYING 3ND1. TWO (2) CONTINUOUS 2-1/2" RIGID STEEL CONDUIT.
- E46 FROM A310NSWBD2B, SUPPLYING KN. TWO (2) CONTINUOUS 3" RIGID STEEL CONDUIT.
- E47 FROM A310BEDP2, SUPPLYING T-2EL. ONE (1) CONTINUOUS 1" RIGID STEEL CONDUIT.
- E48 FROM A310BEDP4, SUPPLYING T-2ED1. ONE (1) CONTINUOUS 3" RIGID STEEL CONDUIT.
- E49 FROM A310BEDP1, SUPPLYING 4E1. ONE (1) CONTINUOUS 2" RIGID STEEL CONDUIT.
- E73 FROM A310BEDP1, SUPPLYING EL-J. ONE (1) CONTINUOUS 1-1/4" RIGID STEEL CONDUIT.
ELECTRICAL POWER NOTES

• REFER TO THE ARCHITECT’S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF KELLUM ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

• CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAYOUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RUN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPGRADE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

• IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEP TACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.

• RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC M EANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).

• LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.

CONTRACTOR RESPONSIBLE FOR FINAL ROUTING OF ALL NEW CONDUIT TO AVOID INTERFERANCE OF EXISTING SYSTEMS (TYPICAL).

PROVIDE ENCLOSED CABLING AND CONTROLS AS REQUIRED FOR NEC ARTICLE 400 COMPLIANCE. INTEGRATE INTO AV SYSTEM.

DISCONNECT TO BE RATED 480 VOLT, 3 PHASE, 100 AMPS, NEMA 1. COORDINATE INSTALLATION WITH ELEVATOR VENDOR.

DISCONNECT TO BE RATED 208 VOLT, 1 PHASE, 30 AMPS, NEMA 1. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR.

DISCONNECT TO BE RATED 120 VOLT, 1 PHASE, 30 AMPS, NEMA 1.

POWER CONNECTION TO ELEVATOR CAB LIGHTING.

ELECTRICAL CONNECTION FOR MOTORIZED ROLLER SHADE SYSTEMS.

PROVIDE PULLBOXES FOR NEW CONDUITS AS REQUIRED. AVOID EXISTING SYSTEMS AND PROVIDE ADEQUATE SPACE FOR ACCESS AND MAINTENANCE.

POWER PLAN - AREA H
ELECTRICAL POWER NOTES

• REFER TO THE ARCHITECT’S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.

• CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAYOUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RUN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.

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TAGGED NOTES

E14 EXISTING SWITCHBOARD A310NSWB02B. UTILIZE EXISTING SPARE 400A BREAKER TO SUPPLY NEW DISTRIBUTION PANEL 3ND1. UTILIZE EXISTING SPARE 800A BREAKER TO SUPPLY NEW PANEL KN. ADJUST BREAKER TRIP SETTING TO 600A.

E15 EXISTING DISTRIBUTION PANEL A310BEDP2. UTILIZE EXISTING SPARE 60A BREAKER TO SUPPLY NEW EMERGENCY TRANSFORMER T-2EL.

E16 EXISTING DISTRIBUTION PANEL A310BEDP4. UTILIZE EXISTING SPARE 250A BREAKER TO SUPPLY NEW STANDBY TRANSFORMER T-2ED1.

E17 EXISTING DISTRIBUTION PANEL A310BEDP1. UTILIZE EXISTING SPARE 200A BREAKER TO SUPPLY NEW PANEL BOARD 4E1.

E36 PROVIDE PULLBOXES FOR CONDUITS AS REQUIRED BEFORE ENTERING SECOND FLOOR. (TYPICAL)

E38 CONTRACTOR RESPONSIBLE FOR FINAL ROUTING OF ALL NEW CONDUIT TO AVOID INTERFERENCE OF EXISTING SYSTEMS (TYPICAL).

E45 FROM A310NSWBD2B, SUPPLYING 3ND1. TWO (2) CONTINUOUS 2-1/2" RIGID STEEL CONDUIT.

E46 FROM A310NSWBD2B, SUPPLYING KN. TWO (2) CONTINUOUS 3" RIGID STEEL CONDUIT.

E47 FROM A310BEDP2, SUPPLYING T-2EL. ONE (1) CONTINUOUS 1" RIGID STEEL CONDUIT.

E48 FROM A310BEDP4, SUPPLYING T-2ED1. ONE (1) CONTINUOUS 3" RIGID STEEL CONDUIT.

E49 FROM A310BEDP1, SUPPLYING 4E1. ONE (1) CONTINUOUS 2" RIGID STEEL CONDUIT.

E69 EXISTING DISTRIBUTION PANEL A310BEDP1. UTILIZE EXISTING 100A BREAKER TO SUPPLY NEW ELEVATOR EL-J.

E73 FROM A310BEDP1, SUPPLYING EL-J. ONE (1) CONTINUOUS 1-1/4" RIGID STEEL CONDUIT.
### PANELBOARD AND WIRING SCHEDULE

**Panel:** A310BEDP1  
**Location:** Surface  
**Mains Type:** 480Y/277V, 3P, 4W  
**Panel Interrupting Rating:** 400A  
**Volts:** 208Y/120V, 3P, 4W  
**Surge Protection Device (SPD):**  

<table>
<thead>
<tr>
<th>Circuit Description</th>
<th>Notes</th>
<th>Hot, Neut, Gnd</th>
<th>OCP</th>
<th>P</th>
<th>CKT</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>CKT</th>
<th>P</th>
<th>OCP</th>
<th>HOT, NEUT, GND</th>
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<td>1-#12, 1-#12, 1-#12</td>
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<td>1</td>
<td>1.1</td>
<td>1</td>
<td>.1</td>
<td>2</td>
<td>1</td>
<td>20</td>
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<td>5. BOOSTER HEATER</td>
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<td>7. BLOWER DRYER</td>
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<td>13. COMBI OVEN - BOTTOM</td>
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</table>

**Total Connected Load:** 175,130 VA  
**Total Connected Current:** 211 A  
**Percentage Additional Capacity:** 0%
Refer to grease waste and vent riser, sheet P-5.4 for continuation.
GENERAL NOTE:
EXISTING FLOOR DRAINS, FLOOR SINKS, GREASE WASTE PIPING AND VENT PIPING WHERE INSTALLED UNDER A PREVIOUS CONTRACT AND ARE SHOWN FOR REFERENCE. EXISTING VENT PIPING ABOVE CEILINGS SHALL BE REMOVED AND REPLACED AS PART OF THIS PROJECT FOR COORDINATION WITH NEW DUCTWORK AND CEILING. ANY OF THE VENT PIPING FOUND NOT TO BE IN CONFLICT WITH ANY OF THE NEW DUCTWORK OR CEILING DURING THE COORDINATION PROCESS, MAY REMAIN IN PLACE.