

# University of Louisville

PURCHASING DEPARTMENT  
LOUISVILLE, KENTUCKY

Invitation No: IB-60-12

Date: March 8, 2012

Title: Student Recreation Center, BC-4 General Contractor

Addendum No. Three (3)

The following shall clarify and/or modify the original bid document(s) as issued by the University of Louisville.

1. **Add the attached Additions, Changes and Clarifications to this Invitation to Bid.**
  - Architectural pages 1-4, 15 Drawings
  - Mechanical page 1-6, 1 Drawings
  - Site Pages 1-2, 5 Drawings
  - Structural Pages 1-2, 12 Drawings
2. **Submitted Questions as of 3-2-12 and University response attached.**

Bidder must acknowledge receipt of this and any addenda either with bid or by separate letter. Acknowledgement must be received in the Office of Purchasing, Service Complex Building, University of Louisville not later than **March 20, 2012 at 2:00 PM**. If by separate letter, the following information must be placed in the lower left hand corner of the envelope:

Invitation No: IB-60-12

Title: Student Recreation Center, BC-4 General Contractor

Open Date: March 20, 2012 at 2:00 PM

BY: Curtis Monroe  
Authorized Purchasing Officer

Receipt Acknowledged: \_\_\_\_\_  
FIRM

BY: \_\_\_\_\_

highlighted text = items not  
inserted in architectural  
specs/drawings

### ADDENDUM NUMBER THREE (ARCHITECTURAL ITEMS)

Bidders shall conform to the following changes, as same shall become binding on the Contract to be issued in response to this Invitation to Bid.

#### PRODUCT INFORMATION

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.

**Metal Lockers (105133)** – The following manufacturer may offer products that meet the specified criteria for Metal Lockers:

List Industries, 401 Jim Moran Blvd., Deerfield Beach, Florida 33442  
(800) 776-1342 www.listindustries.com

**Gymnasium Equipment (116623)** – The following manufacturer may offer products that meet the specified criteria for Divider Curtains:

Porter Athletic, 601 Mercury Dr., Champaign, Illinois 61822  
(888) 277-7778 www.porterathletic.com

**Gymnasium Equipment (116623)** – The following manufacturer may offer products that meet the specified criteria for Scoreboards:

Nevco, 301 East Harris Ave, Greenville, Illinois 62246  
(800) 851-4040 www.nevco.com

#### CORRECTIONS, CLARIFICATIONS & ADDITIONS

1. **Correction:** (Reference Specification Section 042000 "Unit Masonry") In lieu of rope weeps below limestone sills, provide 3/8" O.D. vinyl tube weeps @ 2'-0" O.C.
2. **Clarification:** (Reference Drawing A-114) Reference 60' (10 units at 6'-0" long) casework cubbies adjacent to fitness tier 1. Provide cubbies per detail 1/A-902. Height for the casework cubbies referenced in this addendum item only to be 16" in lieu of 18" shown. Provide 5 modules per 6'-0" unit per elevation 4/A-902.
3. **Clarification:** (Reference Drawing A-1212) Delete stainless steel angle per reference note 05500. Provide transition strip under specification section 096566 "Resilient Athletic Flooring" 2.5.E. of same height as RAF-1.
4. **Addition:** (Reference Drawing S-0174) Provide 3/4" deep reveal strip between topping slab and grade beam where control joint is above grade. Provide bentonite waterstop in keyway. Exposed to view concrete to receive abrasive blast finish.
5. **Clarification:** (Reference Drawing S-0175, Detail 4) Provide 3/4" radius nosing at tread and riser transitions.
6. **Addition:** (Reference Drawings S015 and A-1201) At all locations scheduled to receive polished concrete floor finish and specified in section 033300 "Architectural Concrete" provide additional saw-cut control joints between major column lines in grid as shown on attached drawings A-1201A from Omni Architects dated March 5.
7. **Correction:** (Reference Drawing A-519) At all vanity and countertops with sinks, revise dimension between concrete masonry substrate and wing-walls to a depth of 2'-2" in lieu of 2'-0" shown. Reduce chase depth accordingly.
8. **Correction:** (Reference Specification Section 096513 "Resilient Base and Accessories") At locations scheduled to receive rubber stair and step accessories, delete all reference to article 2.3. In Fitness Area 117B provide RAF-1 in lieu of RTR-1 on step treads. At Main Corridor 199F stair provide sealed concrete in lieu of RTR-1 on step treads. Paint all exposed to view steel.
9. **Addition:** (Reference Drawing A-113) Provide 2" deep recessed floor slab in Food Service 101A and Storage 101 for quarry tile furnished and installed by others. Provide polished concrete up to this transition with 1/4" chisel edge.

10. **Clarification:** (Reference Drawing A-201 and A-202) Refer to site grading plan for actual grades. All exposed concrete to receive abrasive blast architectural concrete.
11. **Clarification:** (Reference Drawing A-131 and A-132) Gaming Area 399 free standing walls shown are Owner Furnished/Contractor Installed furniture. Confirm size and location prior to setting power and data floor boxes.
12. **Clarification:** (Reference Drawings A-111 and A-131) Refer to bench note 15. Provide 5 segments 17'-0" long each with 0'-1" gap between each bench. Eliminate 5'-0" gap at mid-court between benches.
13. **Correction:** (Reference Drawing A-131 and A-132) Mechanical Room Door # 303 to be left hand reverse in lieu of right hand reverse shown.
14. **Clarification:** (Reference Drawing A-132) Wall on column line 11 separating space "Open to Below" shall be 2 hour rated wall type C5.
15. **Correction:** (Reference Drawing A-132) Steel access ladder is incorrectly referenced. The note should point to the ladder on the West wall of Janitor 300.
16. **Clarification:** (Reference Detail 8/A-802) Provide secondary layer of lapped flashing at safety tie-back anchors.
17. **Clarification:** (Reference Detail 5/A-602) Cable rail shown between column line 11 and 12 to be 14'-2" long. Refer to guardrail detail 2/A-517.
18. **Correction:** (Reference Architectural Drawings) Where vinyl corner or casing beads are noted, provide metal corner or casing beads. Refer to specification section 092900 gypsum board article 2.5.c "Trim Accessories". Delete reference to PVC. Provide either galvanized, aluminum-coated steel sheet, or rolled zinc cornerbead at all outside corners except at locations where aluminum trim is called out.
19. **Clarification:** (Reference Detail 4/A-518) Provide sheet metal cant over all footholds per ASME 17.1.
20. **Correction:** (Reference Drawing A-1015, Frame Type 42) Delete 1 1/2" aluminum handrail. Provide horizontal aluminum storefront framing member at 36" AFF for entire length. Revise with shop drawings for detail 4/A-421.
21. **Correction:** (Reference Drawing A-1010, Door # 205) Revise door type from type D-5 to type D-6.
22. **Clarification:** (Reference Detail 1 on Sheet A-421) Brace Racquetball court ceiling with either cold-formed metal joists or full framing overhead to deck.
23. **Clarification:** (Reference Sheet A-001, Note 12) Add "University of Louisville, Department of Environmental Health and Safety" to list of parties to be notified.
24. **Clarification:** (Reference Details A&B/A-405, A&B/A-406, A&B/A-407 and A&B/A-409) Note that wall section A & B are referenced as wall section #1 on plans. Each section is divided into two parts (A & B) on the referenced sheets. The correct reference should be Detail 1, Parts A and B.
25. **Clarification:** (Reference Detail 1/A-806) Delete direct bracing between CMU and column noted as "masonry" angle. Utilize 2" x 6" x 1/4" x 3" angles @ 4'-0" O.C. with slotted hole for anchoring into CMU to allow movement. Minimum 3 angles for 8' high CMU wall.
26. **Clarification:** (Reference Detail 3/A-806) Set top of metal stone bearing shape at 4 7/8" below top of stone. Provide plastic tube weeps @ 2'-0" O.C. in lieu of rope weeps.
27. **Addition:** (Reference Detail 3/A-421) Extend CMU wall in between Locker Room and North MAC goal full height and brace to deck.
28. **Clarification:** (Reference A-400 Series Drawings) Brace all CMU walls at top of walls per details on sheet S0208.
29. **Clarification:** (Reference A-600 Series Drawings) Refer to Mechanical and Electrical sheets for ducts, louvers and penetration in walls. Provide escutcheons where MEP items penetrate wall surfaces.
30. **Clarification:** (Reference A-700 Series Drawings) Add the following notes to all reflected ceiling plans: 1. Paint all exposed to view ductwork, and unfinished mechanical, electrical, plumbing and fire protection systems. 2. Paint all exposed structural steel framing and deck. 3. Paint all exposed to view spray applied fireproofing.
31. **Clarification:** (Reference Drawings A-721 and A-722) Refer to sheet E0222 for Racquetball/Squash court lighting layout, and E0221 for Gymnasium 125 lighting layout.
32. **Correction:** (Reference Drawings A-723 and A-1102) Revise Item #2 "ceiling mounted universal bracket" to be item #1 "wall mounted brackets" in Aerobics Rooms 200 and 201. Location on Adjacent walls above mirrors.
33. **Correction:** (Reference Drawing A-1201, Room Finish Schedule) Quarry tile scheduled in Food Service 101A and Storage 101 shall be "furnished and installed by others".
34. **Correction:** (Reference Drawing A-1200) Manufacturers listed are basis of design only. Subject to compliance other products will be considered. Colors are not yet confirmed and will be selected from manufacture's full

range of colors for given products.

35. **Clarification:** (Reference Drawing A-1211) Include floor transition of either marble or solid surfacing saddles at ceramic tile transitions to meet criteria of the A.D.A.
36. **Clarification:** (Reference Drawing M0311 and Detail AA/A-906) Coordinate radiant floor piping with column line 23 and bench anchorage.
37. **Addition:** (Reference Drawing A-111) Provide 3'-4" by 3'-4" access door in CMU on column line A, between column lines 22 and 23.
38. **Correction:** (Reference A-1014, Frame Type F37) Frame type to be structural glazing in lieu of the aluminum storefront system shown. Glazing type to remain GL9.
39. **Clarification:** (Reference Drawing A-723 and Specification Section 095423 "Acoustical Metal Ceiling System)) Panel size to be 2' x 4' in Lobby 199A, and Main Corridor 299 between column lines 5 and 7.
40. **Clarification:** (Reference Detail 9/A-802, 1/A-411, and 2/A-411) Expansion joint shall be at same height (elevation 135'-0") as adjacent flashing. Detail 9/A-802 to be constructed from 4", 16 gage cold-formed metal framing at 16" O.C. with fiberglass reinforced sheathing board. Extend roof flash ply up vertical surface.
41. **Clarification:** (Reference Drawing A-140) Refer to Mechanical, Electrical, and Plumbing drawings for locations and designation of roof penetrations.
42. **Clarification:** (Reference Drawing A-202, Elevation 2) Provide 3'-0" vertical spacing on insulated metal panels between column line D through F as shown on wall section 2/A-411.
43. **Clarification:** (Reference Drawing A-123) 4 dashed line benches in Corridor 299A are Owner Furnished / Owner Installed furnishing.
44. **Clarification:** (Reference Drawings E0314, E0322, E0323 and E0324) Contractor to establish coordination meeting with Owner, Architect, and Engineer to finalize locations of all athletic equipment power and data floor boxes.
45. **Clarification:** (Reference Detail 10/A-806 and 2/S0175) Slope house keeping slab ¼"/ft towards trench drain.
46. **Addition:** Refer to attached Lintel Schedule from Rangaswamy and Assoc., Inc. dated February 2012 (Attached schedule referencing Addendum #2)
47. **Addition:** (Reference Details 5/A-900 and 7/A-900) Provide 2" plastic laminate on ¾" plywood apron under countertops at all open area knee spaces. Return finished laminate on cabinet sides.
48. **Addition:** (Reference Detail 5/A-516) Provide tactile warning strip in compliance with ADA requirements at open stair top riser in Corridor 199F. Furnish under scope of specification section 096513 "Resilient Accessories".
49. **Correction:** (Reference Casework Elevations 2/A-903, 3/A-903, 5/A-903, 6/A-903, and 7/A-903) Refer to attached revised drawing A-903r, from Omni Cannon Design dated March 8, 2012 for modified casework elevations.
50. **Correction:** (Reference Casework Details 1/A-904, 2/A-904, 3/A-904, 4/A-904, 5/A-904, 6/A-904, and 7/A-904) Refer to attached revised drawing A-904r, from Omni Cannon Design dated March 8, 2012 for modified casework elevations.
51. **Addition:** (Reference Drawing A-124) Refer to attached supplemental drawings SD-ADD3.1 from Omni Architects dated March 8, 2012 for section detail through mezzanine between column lines 13 and 15 on column line E.
52. **Clarification:** (Reference Elevator Section 4/A-518) Refer to attached supplemental drawing SD-ADD3.2 from Omni Architects dated March 8, 2012 for additional information at elevator pit.
53. **Addition:** (Reference Drawing A-110) Refer to attached supplemental drawing SD-ADD3.3 from Omni Architects dated March, 8, 2012 for locations of control joints in polished concrete floors.
54. **Clarification:** (Reference Drawing A-113, Men 103) Refer to attached supplemental drawings SD-ADD3.4 from Omni Architects dated March 8, 2012 for new transition strip. Refer also to attached supplemental drawing SD-ADD3.10 from Omni Architects dated March 8, 2012 for transition strip detail.
55. **Clarification:** (Reference Drawing A-114, Fitness Tier 2 117B) Refer to attached supplemental drawing SD-ADD3.5 from Omni Architects dated March 8, 2012 for partial wall section between column lines F and J on column line 15.2.
56. **Clarification:** (Reference Details 21/A-1021) Refer to revised wall cap detail SD-ADD3.7 from Omni Architects dated March 8, 2012 for revised detail.
57. **Clarification:** (Reference Wall Sections A&B/A-405, A&B/A-406, A&B/A-407 and A&B/A-409) Refer to attached wall cap detail SD-ADD3.8 from Omni Architects dated March 8, 2012 for added detail.
58. **Addition:** (Reference Specification Section 87100 "Door Hardware") The riser diagrams for the electrified doors were omitted from the specification section. Refer to attached riser diagrams from Calvert Independent

Hardware Specifications, LLC dated 3/5/2012 and Riser Diagram SD-ADD3.9 dated March 8, 2012.

59. **Correction:** (Reference Detail 13/A-1212) Refer to attached supplemental drawings SD-ADD3.10 from Omni Architects dated March 8, 2012 for revised tile threshold detail.
60. **Correction:** (Reference Drawing A-1202) Refer to attached supplemental drawing SD-ADD3.11 from Omni Architects dated March 8, 2012 for location of omitted room name and number “Stretching 299F” and correct location of transition strip.

End of Addendum No. 3 (Architectural Items)

### ADDENDUM NUMBER THREE (M/E/P ITEMS)

Bidders shall conform to the following changes, as same shall become binding on the Contract to be issued in response to this Invitation to Bid.

#### Mechanical

1. Refer to M0212 and M1202 – MAC Gym Louvers shall be 48” W X40” H with a free area of 4.72 ft<sup>2</sup>.
2. Refer to M0213- Unit IT serving Telecom shall be HP-72, supply and return of 2100 CFM and 20 GPM flow rate.
3. Refer to M0403 - Irrigation controller to me located on exterior wall. Refer to civil plans for additional information.
4. Refer to M0230 and M0402- Add general note G. - All P-1 and P-2 pumps shall have isolations ball valves at the suction and discharge.
5. Refer to M1001- Pipe HCS/ HCR System Piping Schematic. Route ET-1 piping to the HCR piping per the Air Separator detail on sheet M1002.
6. Refer to M1002- Inline Pump Detail. Flexible connections are not required,
7. Refer to M1002- Inline Pump Detail. Pumps –P-3, P-4, P-5A/ 5B/ 5C, P-6A/ 6B/ 6C, P-7A/ 7B, P-8 and P-9 shall be installed per the In-line pump detail on sheet M1002.
8. Refer to M1102 – Grilles on Exposed Round Ductwork Detail. The high efficiency take-off shall be 12” minimum depth.
9. Refer to M1201 Geothermal heat pump schedule note 3. Refer to plans for units to be provided with unit mounted or integral disconnects.
10. Refer to specifications section 230200 PART 2 – Outside Air Handling Units (Indoor type) – 2.2 Carrier is an approved manufacturer.
11. Refer to specifications section 231100 PART 2 –Registers, Grilles, Diffusers & Louvers – 2.2 Krueger is an approved manufacturer.
12. Refer to specifications section 231100 PART 6 –High Volume Low Velocity Fans – 6.2 Big Ass Fan Wickerbill is an acceptable product. All electrical costs associated with mounting fans with remote VFD’s the responsibility of the contractor. Locate the VFD’s at the location for the fan controllers. Refer to M0401 Note 34. Contractor is responsible for fit and coordinating with the manufacturer the maximum VFD and controller wiring distances associated with all manufacturers HVLV fans with remotes VFD’s.
13. Refer to specifications section 231200 PART 4 –All exposed round ductwork for supply air and outside air shall be double wall per 231200 Part 4.
14. Refer to specifications section 231200 PART 4- Fittings shall be constructed a minimum of 20 Ga in lieu of 22 Ga.

#### Plumbing

1. Refer to specification section 220100 -2.3.4.
  - a. Floor Drain FD-3: Remove requirements for the 4” high funnel.
2. Refer to specification section 220200. Replace plumbing fixture specifications for fixture P-6A and P-6B with the following:

**P-6A    Single Compartment Sink – 15”x17” -ADA**

Elkay model LRAD-1517 single compartment stainless steel sink, 15” x 17” O.D., 5.5” deep, 18 gauge with 2-hole, 4” center faucet punching, rear drain. Provide with grid strainer, 3/8” chrome supplies stops, tailpiece, offset P-trap, drain and escutcheons. Sink trim shall be as follows:

- Gooseneck faucet with wrist blade handles shall be Zurn model Z812B4-3F with polished chrome-plated cast brass faucet body on 4” centers with

quarter turn ceramic disc cartridges and 5-3/8" swing gooseneck spout. Furnish with 0.5 GPM vandal-resistant aerator and 4" color-coded metal wrist blade handles.

P-6B Double Compartment Sink – 33"x22" - ADA

Elkay LRAD-3322, compartment stainless steel sink, 33" x 22" x 5.5" deep, each bowl, 18 gauge with 3-hole, 8" center faucet punching, rear drain. Provide with grid strainer, chrome supply stops, tailpiece, 17 gauge offset P-trap, drain and escutcheons. Sink trim shall be as follows:

- Two-handle faucet shall be Zurn model Z871G3 with polished chrome-plated cast brass faucet body on 8" centers with quarter turn ceramic disc cartridges and 4" long integral cast spout. Furnish with 0.5 GPM vandal-resistant-aerator and 2" color-coded metal dome lever handles.

3. Typical note for all drawings:
  - a. All exposed Storm Sewer piping, horizontal and vertical, to be insulated.
4. Refer to sheet P0111:
  - a. Detail "Exterior Cleanout Detail": Refer to specification section 220100-2.5 for concrete pad requirements in lieu of concrete requirements noted on detail.
  - b. Janitor Sink Detail. This detail includes all P-7's and P-8's on the drawings.
5. Refer to sheet P0111:
  - a. detail "Elevator Sump Pump Detail": Discharge piping to be schedule 40 PVC. Provide expanded metal grate. Provide 24"x24"x24" deep fiberglass basin.
6. Refer to sheet P0112:
  - a. "Domestic Water Entry Piping Schematic": Air gap fitting piping to be Sch. 40 PVC
  - b. "Domestic Hot Water Heater Piping Schematic (120F)": Provide one temperature sensor, upstream of the immersion aquastat on the hot water return piping and one on the hot water main, downstream of the pressure gauge. Provide a main shut-off valve to the gas piping.
  - c. "Domestic Hot Water Heater Piping Schematic (160F)": Provide one temperature sensor, upstream of the immersion aquastat on the hot water return piping and one on the hot water main, downstream of the pressure gauge. Provide a main shut-off valve to the gas piping.
7. Refer to sheet P0113:
  - a. "Site Utilities Plan – Plumbing". New 1" CW piping to Geothermal building to be CPVC produced and labeled as ASTM D-2846-70 with solvent joints. Route this piping along side of the new geothermal mains. Refer to mechanical plans for coordination.
8. Refer to sheet P0113:
  - a. "Geothermal Manifold Building": Provide a drain down valve location at the 1" water entry and at the 1/2" water which exits the building.
  - b. Provide a ball valve upstream of the FPWH/HB and one at the 1/2" cw riser.
9. Refer to sheet P0200:
  - a. This sheet is for reference only.
10. Refer to sheet P0201.
  - a. Room "U.S.T. #119": Coordinate sanitary penetrations with grade beam.
  - b. 2" SP discharge: coordinate with under slab electrical conduits. Exposed piping to splash block to be galvanized steel, bracket to wall. Splash block to be concrete.
  - c. Provide backwater valve with 24" concrete pipe with cast iron access cover for 12" storm sewer where it exits the building adjacent to column A/13.
11. Refer to sheet P0202.
  - a. Laundry 115B: Provide a second FD-4 within the trench serving the washing machines. Provide 4" sanitary and connect to the 4" main. connect 2" vent to piping serving adjacent floor drain. Provide with wall cleanouts for both FD-4's.

- b. Provide backwater valve with 24" concrete pipe with cast iron access cover for 10" storm sewer where it exits the building adjacent to column E/0.5.
12. Refer to sheet P0203:
  - a. Provide backwater valve with 24" concrete pipe with cast iron access cover for 10" storm sewer where it exits the building adjacent to column F/15.2.
  - b. Provide backwater valve with 24" concrete pipe with cast iron access cover for 6" sanitary where it exits the building adjacent to column K/9.
  - c. Provide backwater valve, Zurn Z1090 with cleanout access cover for 3" storm sewer where it exits the building adjacent to column E/0.5.
13. Refer to sheet P0210:
  - a. This sheet is for reference only.
14. Refer to sheet P0211.
  - a. Room "U.S.T. #119": Provide hose bibb between water closet and lavatory. Provide a trap primer connection and water piping to floor drain. Pipe per detail sheet P0111.
  - b. Cold water main on this sheet to be 2".
  - c. Provide (1) RD-2 and (1) RD-2A roof drains for MAC roof area. (Refer to sheet A-140, "3-Enlarged Partial Roof Plan @ MAC Detail" for exact location.) Pipe 4" OSS piping from RD-2A to an OSD-2, locate on the south wall. Pipe 4" SS piping from RD-2A to chase located at column B/1.5. Drop down to below grade, exit the building at the west side, route north and connect to 10" SS main at column B/8, upstream of backwater valve.
15. Refer to P0212:
  - a. Room "Classroom 110A": Route 3" sanitary piping (serving FD-3 above) north to above Classroom #107 as required to not conflict with the room divider.
  - b. Laundry 115B: move ¾" cw & ½" hw to the west, above corridor ceiling # 198.
  - c. Provide ball valves in 2" cw and ¾" hw water piping adjacent to the balancing valve above Manager Room.
  - d. Provide ball valves in 2" cw and 1" hw water piping adjacent to the balancing valve above corridor.
16. Refer to sheet P0213:
  - a. For plumbing fixture P-5, install shut-off valve above the ceiling for this fixture. Route cw branch from main, to above ceiling, to fixture as required.
17. Refer to sheet P0220:
  - a. This sheet is for reference only.
18. Refer to sheet P0221:
  - a. All floor drains, FD-4 are to be changed to FD-3 with 4" bottom outlets. Provide with trap primer connection, and install trap primer piping per Mezzanine Main Mechanical Room Floor Drains Trap Primer Piping Schematic.
  - b. Adjacent to column line C/8, provide shut off valves at 60" a.f.f. for all (5) water risers, and (1) gas riser, down to floor below.
  - c. On 1 ½" cw piping adjacent to B/11, tag note to be #21, in lieu of #20.
  - d. Provide shut-off valves on cw and hw piping serving P-8.
  - e. Provide (1) shut-off valve on ½" cw piping serving P-5 and P-5A.
  - f. Provide drain pan underneath sanitary piping above Telec. #212A.
19. Refer to sheet P0222:
  - a. Locate water risers (tag note #2) adjacent to Hose Bibb in Mechanical Room #202. Provide shut-off valves at 60" a.f.f. in risers.
20. Refer to sheet P0223:
  - a. For plumbing fixture P-5, install shut-off valve above the ceiling for this fixture. Route cw branch from main, to above ceiling, to fixture as required.



21. Refer to sheet P0232:
  - a. Provide (1) RD-2 and (1) RD-2A roof drains for gym roof area. (Refer to sheet A-140, “2-Enlarged Partial Roof Plan @ Gymnasium Detail” for exact location.) Pipe 4” OSS piping from RD-2A to an OSD-2, locate on the south wall. Pipe 4” SS piping from RD-2A to 12” SS piping adjacent to column C/12.
  - b. Mechanical Room #303: Floor drains to be FD-3 in lieu of FD-4.
  - c. At riser mains, note #7, install shut off valves, at 60” a.f.f., accessible in Janitor #300.
22. Refer to sheet P0234:
  - a. For plumbing fixtures P-5B, install shut-off valve above the ceiling for this fixture. Route cw branch from main, to above ceiling, to fixture as required.
23. Refer to sheet P0300:
  - a. At Women’s and men’s Locker room, provide a hose bibb on the wall at the entrance to each of the shower areas.
  - b. Refer to architectural plans for location of all shower heads. Adjust piping accordingly.
  - c. Provide shut-off valves for each P-4 and P-4A. install within the vertical extension, upstream from the surface mounted shower system.
  - d. The 1” cw to the geothermal building to be fed from the 1-1/4” cw main located above ceiling in the Men’s toilet room area.
  - e. Clarification: Note #7 indicates (2) headers, one on each side of the chase to serve plumbing fixtures. Provide shut-off valves for each header.
24. Refer to sheet P0301:
  - a. Tag note #5: Filter system is provided by the kitchen equipment supplier.
  - b. On the waste discharge from the 3-compartment sink, install a valve so that the discharge will not overflow the floor sink. The grease trap is to be provided with a flow control in accordance to the Kentucky Division of Plumbing.
25. Refer to sheet FP0131:
  - a. Provide concealed type sprinkler heads in lieu of caged sprinkler heads in the Racquetball rooms.

#### Electrical

1. For clarification the occupancy sensors located in similar corridors are to be zoned together in each corridor space.
2. Refer to lighting plans. Tagged note “L4” should read
3. EST shall be listed as an acceptable manufacture of Fire alarm systems
4. Refer to sheet UE0412. The irrigation controller located in the main electrical room is to be relocated to the exterior of the Geo-Thermal Valve Building along with all associated electrical connections. Contractor shall increase wire size feed the controller to #10 wires. Coordinate exact location on exterior of building with owner prior to installation.
5. Refer to sheet E1203. Back lighting on counter top is to be extended to wall and wrap around the towel drop. See attached sketch for additional fixture layout.
6. Refer to sheet E0313. Contractor shall provide (5) five horizontally mounted duplex receptacle above counter at each of knee space areas at the check-in counter.
7. Refer to sheet E0313. For all below counter outlets located at the check-in counter the contractor shall supply 2 duplex outlets for each knee space in lieu of one quad. One outlet is to be located in the knee space, and one is to be located in the CPU cabinet, coordinate exact locations with architectural elevations and casework.
8. Refer to sheet E0313. In first aid room 114 contractors shall provide an additional duplex outlet and data drop mounted at 48” on the north face of the column surround for wall mounted defibrillator, connect to circuit serving the room. Tagged note E30 applies to this change.

9. Refer to sheet E1001. Fixture type “G3” shall be PORTFOLIO #LD615D010/ERW6840/6LWOHWF/TRM6,GOTHAM EQUAL, LIGHTOLIER EQUAL
10. Contractor shall provide rough-in and connections for prop alarm (PA) at door 119-C refer to hardware specification for requirements.
11. Symbol with “SB” notation located in conference room 102R, and classrooms 110, 110-a, and 107 is for rough-in for owner provided smart board. Contractor will need a 4” square junction box and duplex outlet to be located 7’ aff with 1-1/4” conduit routed to 4” square junction located on wall at 18” noted with tagged note E37. Contractor shall coordinate exact communication wiring between these points with the equipment supplied.
12. For clarification on doors 119-B, 111-2, and 119-C the door position (PS) will be monitored through the magnetic lock (ML).
13. Door “B1-2” change symbol from Exit Button (EB) to Position switch(PS)
14. Door 128 contractor to provide connections to Door Position Switches and power.
15. At doors 115C-3, 115C-2, and 115A delete smoke detectors (SD) on both sides of door and Door holders.
16. At Door 115C-5 contractor shall provide a smoke detector located on both sides of the door and fire alarm connection for release of the door hold open upon alarm. Provide power to door junction panel at door from circuit “EGP1B-13”. Tagged notes “E1” and “E9” shall apply to this door
17. At door 104-1. Provide power to door junction panel at door from circuit “EGP1B-13”. Tagged notes “E1” and “E9” shall apply to this door
18. At door “199D” contractor shall provide connection to Magnetic lock (ML).
19. At door “B-2” contractor shall provide power to a door junction panel and provide connection to a door position switch (PS). Connector shall connect door junction panel to circuit “EGP2A-6” serving other doors in this area. Tagged note “E1” is to apply to this door.
20. At door 112-3 change (2) Door Position switches (PS) to (2) Magnetic locks (ML). Door position will be monitored through the magnetic lock (ML).
21. At doors “126” and “127” contractor shall provide power to a door junction panel and provide connection to (2) door position switch (PS). Connector shall connect door junction panel to circuit “EGP1A-16”. Provide 20/1p breaker and #12 conductors. Tagged note “E1” is to apply to this door.
22. At door “128” at geothermal valve building contractor shall provide power to a door junction panel and provide connection to (2) door position switch (PS). Connector shall connect door junction panel to circuit “EGP1A-15”. Provide 20/1p breaker and #8 conductors. Tagged note “E1” is to apply to this door.
23. Refer to specification section 270100. As listed in 3.3.4 CAT 6 cable shall be superior Essex part number 54-246-2B (No Substitute).
24. Refer to specification section 280750. As listed in part 2 general specifications Camera’s shall be incorporated into the Universities Video Management System – All work at the Department of Public Safety including Software, Programming, Encoders, and camera setup, shall be provided by the University’s vendor. Refer to the Allowance front end specification.
25. Contractor shall provide (2) empty 1” conduits with pull strings routed from main electrical room 126 to geothermal valve building. Stub up in corner of rooms and cap.
26. For clarification the contractor shall provide 1 data drop to the lighting control cabinet for the check-in desk lighting as indicated by control schematic located on sheet E1203.
27. Refer to sheet E1203. For clarification LED fixtures in casework are to be installed by the electrical contractor.
28. Delete door position switches and door power connections at doors 121 and 122
29. Electrical feeder (p1-7) to site POLE “S1” shall be changed to a 30A/3P breaker in lieu of 20/3P conductors shall be #6 wire.

End of Addendum No. 3 (M/E/P Items)

### ADDENDUM NUMBER THREE (SITE ITEMS)

Bidders shall conform to the following changes, as same shall become binding on the Contract to be issued in response to this Invitation to Bid.

#### Clarifications

1. Sheet SD-1: With regards to the remaining asphalt staging area from Bid Package #1, this area shall be removed by the Bid Package #4 Contractor per Coded Note #3 on Sheet SD – 3.0
2. Sheet SD-3.0 thru SD – 3.2: All Coded Notes on these sheets are the responsibility of the Bid Package #4 Contractor.
3. Sheet SD – 4.2: All excavation and related work to be done in the Great Lawn Area is to be done by the Bid Package #4 Contractor.
4. The requested Unit Price for Historic Concrete is applicable as there is a specification for Historic Concrete Mix for portions of the work on the northeast area of the plaza along 4<sup>th</sup> Street.
5. Reference Sheet SD – 3.1: The offset along the west boundary line is not a fence but a property line offset.

#### Plans

6. Sheet SD-3.2: Coded Note #15 shall be referenced to the existing bike racks on the southeast corner of Kurz Hall.
7. Sheet SD – 3.2: Coded Note #16 shall be deleted and shall be replaced with Coded Note # 21 that shall read: Fencing and gates to be installed prior to construction of new concrete walkway on the west side of Kurz Hall. Upon completion of sidewalk construction, the fencing and gates shall be removed and taken to a location on campus as directed by the Owner. The fencing shall become the property of the Owner.
8. Sheet SD – 3.2: Coded Note #24 shall be removed and replaced with Coded Note #11.
9. Sheet SD – 4.0: Coded Note #8 that is directed to the temporary fencing shall be removed.
10. Sheet SD – 5.2A: Coded Note #9 referenced on the north end of the Great Lawn should be substituted with Coded Note #8
11. Sheet SD – 8.1: The reference to the match line for Sheet SD – 8.2 should be removed.
12. Sheet SD – 8.3: Add the following to General Notes #3: All fees are to be paid by the Contractor.
13. Sheet SD – 9.1: Reference to the Planting Schedule. The Gleditsia triacanthos “Skyline” shall be replaced with Ulmus parvifolia 'Emer II', Lacebark Elm. The quantity shall be changed from 15 to 12.
14. Sheet SD – 10.0: Add or replace the following notes to Performance Specifications
  - Rainwater Harvesting Tank/Cistern
    8. The tank depth shall correspond to storm and roof leader piping that discharge into the tank.
    9. The tank riser shall be a minimum of 4' diameter to allow for access and shall be installed with an access ladder.
    10. All tank requirements shall be in compliance with local health codes.
  - Filtration
    1. Provide an inline basket strainer with access for cleaning for incoming water at the concrete intercepting manhole as shown on the plans. Strainer shall be adequate for filtering roof and site grit and debris that is typical of a building and site similar to the proposed project.
15. Sheet SD – 11.1: The listed weather station for the irrigation system shall be provided and mounted on or near the top of the Geothermal Manifold Building. Conduit for wiring shall be provided.
16. Sheet SD – 11.1: Modify note referencing location of Irrigation Controller to read that Irrigation Controller shall be mounted on the outside south wall of the Geothermal Manifold Building in a weatherproof control box that is lockable. Conduits for wiring shall not be exposed on the outside of the building.
17. Sheet SD – 11.1: Replace the Irrigation Controller model reference with the following: Rainbird ESP LXME with ET Cartridge and LIMR kit or an approved equal controller and remote. Controller shall be in an exterior, weatherproof, lockable control box.

### Specifications

18. Section 321293 Part 1- GENERAL: Modify Paragraph 1.5 Quality Assurance, B – 1 and B - 4 to read as:

1. Manufacturer shall be experience in the manufacturing of synthetic turf for 10 years and the representative company and installer shall have a minimum of 7 years experience in the installation of synthetic turf fields.
4. Shall have a minimum of 10 successful installs with a similar synthetic turf field.

19. Section 321293 – ARTIFICIAL TURF: Part 2 – Paragraph B: Replace the entire paragraph with the following:

B. The installed artificial grass monofilament shall have the following properties:

Standard	Property	Specification
ASTM D1577	Fiber Denier	10,800 (280+ micron thk)
	HALS UV Stabilizer	10,000ppm
	Inner Face Support Ridges	≥6
	Outer Face Support Ridges	≥10
ASTM D5823	Pile Height	2"
ASTM D5793	Stitch Gauge	3/8"
ASTM D5848	Pile Weight	42oz/square yard
ASTM D5848	Primary Backing	7.5oz/square yard
ASTM D5848	Secondary Backing	22oz/square yard
ASTM D1335	Tuft Bind (Without Infill)	8+ lbs
ASTM D5034	Grab Tear (Width)	200 lbs/force
ASTM D5034	Grab Tear (Length)	200 lbs/force
ASTM D4491	Carpet Permeability	>40 inches/hour
ASTM F1936	Impact Attenuation (Gmax)	not less than 90 @ installation or greater than 165
	Infill Material Depth	1.5 inches
	SBR Rubber Infill Component	3.33lbs/square foot

20. Section 321293 Part 2 – PRODUCTS: Add Paragraph "J" to read: J. Synthetic Turf Equipment – Contractor shall purchase and provide to the Owner a synthetic turf groomer that is equal to the FieldGroomers, LitterKat Sweeper with tow behind magnet. The groomer shall be assembled and the Contractor shall demonstrate to the owner the proper use of the equipment.

21. Section 321443 – POURIOUS UNIT PAVING – PART 2 – PRODUCTS – 2.1 C – Basis of Design shall be revised to read: Aqua Brick clay brick paver by Belden, Victorian Paver A.

End of Addendum No. 3 (Site Items)

### ADDENDUM NUMBER THREE (STRUCTURAL ITEMS)

Bidders shall conform to the following changes, as same shall become binding on the Contract to be issued in response to this Invitation to Bid.

#### Drawings:

1. SHEET S0107 - SLAB ON GRADE PLAN AREA-B
  - i) Sketches **2/ST-34** and **2/ST-38** shows "**PARTIAL SLAB ON GRADE PLAN-AREA-B 1/S0107**" major revisions are clouded.
  - ii) Sketch "**2/ST-39**" illustrates new section.
2. SHEET S0108 - SLAB ON GRADE PLAN AREA-C
  - i) Provide slab depression as **2"** for the room "**FOOD SERVICE 101A** and **STOR.101**" located between the grid 3.6 to 5 and G to J.
3. SHEET S0109 - SLAB ON GRADE PLAN AREA-D
  - i) Sketches **2/ST-35** and **2/ST-36** shows "**PARTIAL SLAB ON GRADE PLAN-AREA-C 1/S0109**" major revisions are clouded.
  - ii) **Remove 'ENTRY WAY SLAB - 3" DEPRESSION'** for hatched area at VEST. 199 between the grid 7 to 8.
  - iii) Sketch "**1/ST-39** and **2/ST-39** " illustrates new section.
4. SHEET S0112 - FOUNDATION PLAN AREA-B
  - i) Sketches **1/ST-34** and **3/ST-36** shows "**PARTIAL FOUNDATION PLAN - AREA-B 1/S0112**" major revisions are clouded.
  - ii) Sketch "**2/ST-39**" illustrates new section.
5. SHEET S0114 - FOUNDATION PLAN AREA-D
  - i) Sketches **3/ST-34**, **1/ST-35** and **1/ST-36** shows "**PARTIAL FOUNDATION PLAN - AREA-D 1/S0114**" major revisions are clouded.
  - ii) Sketch "**1/ST-39** and **2/ST-39**" illustrates new sections.
6. SHEET S0123 - MEZZANINE FLOOR FRAMING PLAN AREA-C
  - i) Sketches **1/ST-37** & **1/ST-38** shows "**PARTIAL MEZZANINE FLOOR FRAMING PLAN - AREA-C 1/S0123**" major revisions are clouded.
  - ii) Sketch "**1/ST-40**" illustrates new section.
  - iii) Sketch "**1/ST-42**" illustrates new section.

7. SHEET S0131 - LEVEL 02 FLOOR FRAMING PLAN AREA-A
  - i) Sketch **1/ST-41** shows "**PARTIAL LEVEL 02 FLOOR FRAMING PLAN - AREA-A 1/S0131**" major revisions are clouded.
8. SHEET S0141 - HIGH ROOF FRAMING PLAN
  - i) Sketch **2/ST-41** shows "**PARTIAL HIGH ROOF FRAMING PLAN 1/S0141**" major revisions are clouded.
9. SHEET S0145 - RACQUETBALL COURT ROOF FRAMING PLAN
  - i) Sketch **1/ST-33** shows "**PARTIAL RACQUETBALL COURT ROOF FRAMING PLAN 1/S0145**" major revisions are clouded.
  - ii) Sketch "**2/ST-40**" illustrates new section.
10. SKETCH ST-4
  - i) Replace **SECTION 2/ST-4 (Addenda #2)** with Sketch **2/ST-4 REVISED**.
11. SKETCH ST-29
  - i) Replace **SECTION 2/ST-29 (Addenda #2)** with Sketch **2/ST-29 REVISED**.

End of Addendum No. 3 (Structural Items)

## **SRC GC Questions as of March 5, 2012**

Q1 “The loop installer/contractor shall have a current International Ground Source Heat Pump Association (IGSHPA) certification, having completed an IGSHPA training course in the fundamentals of design, installation, and operation of ground source systems, and having passed the IGSHPA certification examination.” Does this certification apply to the entire geothermal loop system installation or just the exterior portion of it?

**Response:** Refer to M0311 note 8 for location of separation between the exterior and interior piping. Refer to detail on plan M1002 Chemical Treatment and Drain Down Detail for separation between the geothermal contractor and mechanical contractor. Item also included in Addendum Two (MEP Items)

Q2. Sheet G-5 (Roof Decking and Structural Steel Fireproofing Plan) calls for Intumescent Fireproofing to be applied to roof decking in various areas. There is no UL design for Intumescent Fireproofing on roof framing...in particular decking. In short, you can't use Intumescent fireproofing on roof structures. Will this be revised to use “Spray Fireproofing” on roof areas?

**Response:** (Reference Drawing G-5) The hatch is incorrectly shown on sheet G-5. The area between column lines 11 and 17, and E and F to be spray applied fireproofing. Refer to notes on drawings G-2 through G-5 indicating whether fireproofing is required on floor / roof decking.

Q3 In regards to Bid Submission & listing of Major Subcontractors, Unit Prices, MB/WBE listing, please confirm that these are due within 24 hours of bid time. There are discrepancies between the Form of Proposal, the Advertisement For Bids & Instruction to Bidders.

**Response:** Major Sub-Contractors with a value over \$500,000 should be listed in Part I Submission Information. The complete list of Subcontractors, Unit Prices, Materials and MB/WBE list and CD is due 24 Hours after Bid due Date.

Q4 Also, under the Evaluation Criteria, Item C, Subcontractors & Material Suppliers – We understand the requirement for Subcontractors resumes but unsure about the requirement of Material Suppliers. Please confirm if we need to include information or resumes from the Material Suppliers also.

**Response:** Only those with a value in excess of \$500,000. Material Supplier need not to supply resume.

Q5 The private sanitary plan scale indicates 1”=30’ while the graphic scale indicates 1”=50’. The sanitary sewer profile indicates the horizontal scale as 1”=20’, but the footages shown above the pipeline do not match the scale. Please advise.

**Response:** Question 5 is addressed in Addendum One

Q6 The cleanout listed as 1, 2 and 3 appear to be manholes. Please confirm

**Response:** Question 6 is addressed in Addendum One

Q7 Is the previously awarded structural steel contractor responsible for installing all perimeter safety rails at all slab on metal deck edges & openings?

**Response:** The Bid Package, Phase #3 steel fabricator / installer was not assigned responsibility for safety. This shall be the responsibility of Bid Package, Phase #4 General Contractor Best Value.

Q8 For bidding purposes of this GC package, when is the structural steel scheduled to be on site to begin installation and what is their duration for installation of the steel?

**Response:** Refer to Specification Section 011000 “Summary of Work” in Bid Package, Phase #3 for schedule. Refer also to Addendum #1 for Bid Package, Phase #3.



Q9 Reference drawing SD1.0- Will the asphalt that is left for staging and storage be removed by the BP #1 site contractor?

Response: Question 9 is addressed in Addendum Two (Site Items)

Q10 Reference drawings SD3.0 thru SD3.2- Are all the coded demolition notes on these sheets by the BP #1 Site contractor?

Response: Question 10 is addressed in Addendum Two (Site Items)

Q11 Reference SD4.2: Is the excavation work indicated at the Great Lawn by the BP #1 site contractor?

Response: Question 11 is addressed in Addendum Two (Site Items)

Q12 Reference S0006- Item 3.3 “Slabs to receive moisture-sensitive floor coverings”- Is this independent testing required? If so, is this work to be by the previously awarded testing bid package?

Response: Quality assurance for this item is the responsibility of the Bid Package, Phase #4 General Contractor Best Value.

Q13 Concrete floor flatness is referred to on drawing S0006 and in specification 03300 page 22. Is this testing to be by the GC or is this by the previously awarded testing bid package?

Response: Quality assurance for this item is the responsibility of the Bid Package, Phase #4 General Contractor Best Value.

Q13 Reference drawing S0006- Item 2.1 Foundation notes #14 references a 12” undercut and lime stabilization. Is this required and to be part of the GC bid or will this be handled by unit prices? Is an allowance required for this?

Response: This will be handled by unit prices. Please provide a Unit price for this in your bid. No, an allowance is not allowed.

Q14 Reference detail 1 on S0174- This detail shows a formed keyway at the slab on grade and at the top of the grade beam. Can this be revised so that the grade beam can be poured monolithically up to FFE or can the concrete shown above the grade beam be poured as a thickened edge with the slab on grade?

Response: At contractor’s option, top slab and grade beam can be poured monolithically, or provide ¾” reveal strip at control joint where exposed to view.

Q15 On sheet E0223 & E0224 we have a fixture “G3”. NO, designation on sheet E1001 for a “G3” fixture. Do we know what this is?

Response: Fixture type “G3” shall be PORTFOLIO #LD615D010/ERW6840/6LWOHWF/TRM6, GOTHAM EQUAL, LIGHTOLIER EQUAL

Q16 The details on sheet E1001 show fixtures mounted to the steel with angle, is this part of the steel tubing. If not, will this need to be welded or drilled and bolted? This is for the C, D & D2 fixtures. May be advisable for Steel fabricator to install.

Response: The detail indicated for the angle to be welded.

Q17 Do we have a Panel Schedule for the Lighting Controls Panels?

Response: There is a list of relay panels and relay numbers that each lighting control zone is to be routed through located in Spec section 250400.

Q18 The Occupancy Sensors, what are the A B C D E & F designation with the sensors on the drawings?

Response: Refer to the legend.

Q19 On sheet E0313, shows power recpt w/ SB notation. No designation for SB. Please advise.

Response: This is a rough-in for an owner provided smart board, clarification added in addendum.

Q20 Section 074213 Insulated Wall Panels 2.2 foamed insulated wall panels B 2 Metallic coated sheet steel: facing of striated zinc coated steel

A Question: Is the exterior face of the insulated wall panel striated and embossed or is it striated and smooth

Response: The exterior face of the insulated metal wall panels are striated and smooth.

B Question: Is the interior face of the liner panel the same .034 thickness as the exterior face or can it be a lighter ga.

Response: (Reference Specification Section 074213.19 “Insulated Metal Wall Panels”, 2.2.B.2.a) Exterior and interior facing thickness to be .022” (.056 mm) in lieu of the .034” (.86 mm) specified. All performance requirements to be maintained. See also Addendum Two (Architectural Items), Items 21 and 22.

Q21 The insulated wall panels that are going around the exterior of the fitness center are shown to be installed on tube steel framing. The tube steel framing drawings SO 152 and SO 152A elevations near grid K and 15.2 in the steel package 3 bid does not show the necessary framing for the wall panels to be installed .

Question: Will the required framing be installed in the steel package or does the wall panel installer have to provide it.

Response: The required wall framing to be minimum 8”, 16 gage cold formed metal framing at 16” O.C., not structural steel tubes. The cold formed metal framing to be provided as part of specification section 054000 “Cold Formed Metal Framing”. Refer also to wall section 2/A-404. Cold formed metal framing in question to be provided above window system continuous to top of parapet, and below window system continuous to soffit panels per requirements listed above.

Q22 Index to Specifications – There is a specification for 092400 Portland Cement Plastering but this is not indicated in the Index, please clarify.

Response: (Reference Specification Section 092400 “Portland Cement Plastering” and Section 092900 “Gypsum Board”) Delete Section 092400, and refer to Thin Coat Plaster specified in Section 092900. Also delete all reference to PVC Interior trim in Section 092900. Article 2.7 -- All fasteners shall be stainless steel in wet and high humidity areas (showers/locker rooms/restrooms). At contractor’s option provide paper or fiberglass tape. See also Addendum Two (Architectural Items), Item 32.

Q23 Please clarify – Special Conditions, Article 23.1 states that “the Owner will provide water and electricity for this Project”, Spec Section 015000 Part 1.3 USE CHARGES states that use charges should be included in the Contract Sum unless otherwise indicated, please confirm that Owner will be picking up this cost.

Response: General Contractor Best Value shall be responsible for these use charges and include in the base bid.

Q24 Please review the Unit Prices, so of the units don’t seem to apply, ex. #1 Historic Concrete Pavement – EA?? See others also,

**Response: Refer to addendum attachment for the corrected unit prices.**

Q25 On drawing SD-3.1 there is an offset shown in the west fence line that no other site drawings seems to indicate. What is this?

**Response: Question 25 is addressed in Addendum Two (Site Items)**

Q26 On drawing SD-3.2 keynote #15, (top right of sheet) is pointed at the guard shack located in the northwest corner of the parking lot. Considering that keynote #15 pertains to the concrete pad at bike racks, I believe that this is an incorrect note.

**Response: Question 26 is addressed in Addendum Two (Site Items)**

Q27 On drawing SD-3.2 keynote #16 appears to be pointing at the termination points of the fencing located on the west side of Kurz Hall. Considering that keynote #16 pertains to the extension existing storm structures I believe that this is an incorrect note.

**Response: Question 27 is addressed in Addendum Two (Site Items)**

Q28 On drawing SD-3.2 keynote #24 is listed around the existing transformers/bollards on the west side of Kurz Hall. There is not a keynote #24 provided under the notes section.

**Response: Question 28 is addressed in Addendum Two (Site Items)**

Q29 On drawing SD-4.0 keynote #8 appears to be pointing at the fencing located to the south of the Student Recreation Center. Considering that keynote #8 pertains to the removal/relocation of erosion control structures I believe that this is an incorrect note.

**Response: Question 29 is addressed in Addendum Two (Site Items)**

Q30 On drawing SD-5.2A keynote #9 is shown on the north side of "The Great Lawn". Should this keynote be #8 instead?

**Response: Question 30 is addressed in Addendum Two (Site Items)**

Q31 On drawing SD-8.1 there is a match line for drawing SD-8.2 shown for the area located around "The Great Lawn". Currently, drawing SD-8.2 is a page of details and not the utility plan layout eluded to on SD-8.1.

**Response: Question 31 is addressed in Addendum Two (Site Items)**

Q32 On drawing SD-8.3 under general note #3 reference is made to capacity charge fees having to be paid. Will the owner pay for this or is the contractor required to pay this like all other fees?

**Response: Question 32 is addressed in Addendum Two (Site Items)**

Q34 On drawing G-5 the shaded area around the walking track indicates that the structure is to receive spray-on fireproofing. However, the paragraphs pointing to this area calls for intumescent paint. Which is correct?

**Response: The hatch is shown correctly. The note should refer to spray applied fireproofing for the structure and roof decking above the running track.**

Q35 On drawing G-5 the hatched area around between column lines 11 to 17 and E to F indicates that the structure is to receive intumescent paint. However, the paragraph pointing to this area calls for spray-on fireproofing. Which is correct?

**Response: (Reference Drawing G-5) The hatch is incorrectly shown on sheet G-5. The area between column lines 11 and 17, and E and F to be spray applied fireproofing. Refer to notes on drawings G-2 through G-5 indicating whether fireproofing is required on floor / roof decking.**

Q36 The following wall types are shown on drawing A-111 but cannot be found on partition type drawings A-004 or A-005: 17 or L2B.

**Response: Wall Types will be addressed in a future addendum.**

Q37 The following wall types are shown on drawing A-112 but cannot be found on partition type drawings A-004 or A-005: 16, 17, or L2A.

**Response: Wall Types will be addressed in a future addendum.**

Q38 The following wall types are shown on drawing A-121 but cannot be found on partition type drawings A-004 or A-005: 17 or L2B.

**Response: Wall types will be addressed in a future addendum.**

Q39 The following wall types are shown on drawing A-122 but cannot be found on partition type drawings A-004 or A-005: 17.

**Response: Wall types will be addressed in a future addendum.**

Q40 On drawing A-122, what is the intent of the drawing in Mechanical #212 along column line #9 and parallel to column line C? Are these some type of walls?

**Response: Wall types will be addressed in a future addendum**

Q41 The following wall types are shown on drawing A-131 but cannot be found on partition type drawings A-004 or A-005: 17 or L3A.

**Response: Wall types will be addressed in a future addendum.**

Q42 The following wall types are shown on drawing A-132 but cannot be found on partition type drawings A-004 or A-005: 17.

**Response: Wall type will be addressed in a future addendum**

Q43 On drawing #A-140 there are 24 safety tie backs called for on the high roof. To begin with, I believe that the referenced detail is incorrect and should be #8 on drawing A-802. Furthermore, I cannot find a reference in the specification to these safety anchors and therefore cannot determine who the manufacturer should be. Please verify.

**Response: The safety tie back anchor details are incorrectly referenced. The correct referenced location is 8/A-802. Refer to Addendum Two (Architectural Items), Item 28 for additional information.**

Q44 On drawings #A-712 and #A-713 what is the detail or the drywall soffit shown at the operable partition in Classroom #110 and Classroom #110A?

**Response: The detail in question will be included in a future addendum.**

Q45 On drawing #A-713 there are roller shades shown in the #102-series offices. Are these part of the bid category #4 work as I did not see a specification section on them?

**Response: Roller shades will be required in rooms 102E, 102F, 102G, 102H, 102J, 102K, 102M, 102N, 102P, 102Q, and 102R. Specification Section 122413 "Roller Window Shades" to be included in future addendum. See also Question and Answer 64 of this document.**

Q46 On drawing #A-111 when you are standing in Gymnasium #125, what is the door number going into the room east of Elevator Machine Room #121?

**Response: The door number for the opening in question is 125A.**

Q47 On drawing #A-121 and #A-124 verify that the door at Stair #3 exiting onto the mezzanine level is opening C2.

Response: Reference drawing A-1010, Door Schedule. Door leading from Stair #3 to Mezzanine is opening C2.

Q48 On drawing #A-603, elevation #1 calls for the scoreboard in MAC Gym #112 to be owner furnished-owner installed. However, Equipment Plan #A-1101 calls for the scoreboard to be contractor furnished-contractor installed. Which is correct?

Response: The scoreboards are Contractor Furnished / Contractor Installed. Note that the scoreboards are also included as Deduct Alternate #1. Refer to specification section 012300 "Alternates" for a list of deduct alternates.

Q49 On drawing #A-1102 there is an "AV" symbol shown within Aerobics #204 but there is not a graphic representation of keynote #7 which is an A.V. Rack. Please verify.

Response: Keynote #7 to be included in Aerobics Room 204 in addition to note "AV".

Q50 Specification Section 024670, Part 1.2, A. Please clarify wording of last sentence. To follow up, it leads to the following questions:

a. The details on S0173 and S0176 the augercast piles are to be 16" Dia. however in the spec 024670 1.2A says we should bid them as 18" Dia. which trumps which?

Response: 16" diameter is correct.

b. The same section of the spec also said to bid the piles as 50' where the drawings say to bid them at 45'. Again which one is correct?

Response: 45" is correct.

Q51 Drawing A111 clearly identifies the Divider Curtain between the courts, Drawing A131 seems to show the Divider Curtains but does not indicate the curtains, please clarify if they are required at this location?

Response: Divider curtains are required at the questioned locations.

Q52 Specification Section 096624 – Part 1.4, B. 2.a&b Flatness Required for Room 107 & 06. Please confirm that this applies to this project?

Response: (Reference Specification Section 096624 "Polished Concrete Floor" The reference to rooms 107 and 06 are incorrect. Provide floor flatness in all locations scheduled to have polished concrete surface with the following flatness criteria: 1. Overall FF 40 2. Local FF 20.

Q53 Drawings S0006 Dated February 17, 2012 lists the APG piles as 16" dia. X 45'-0" length supporting a 110 tons, the specification refers in several locations to 18" dia. Piles x 50' -" length supporting 125 tons. Which is correct?

Response: 16" diameter piles x 45'-0" length supporting 110 tons is correct.

Q54 Specification section 1.2A lists the bid pile quantity as "two one piles" Can you please clarify the bid quantity of piles.

Response: The last sentence of Specification Section 024670/1.2/A shall read, "The contract price for piling shall be a principal sum based on 16 (sixteen) inch diameter piles, including one test pile, having a total aggregate length of forty five feet per pile multiplied by (the number of piles shown in the plans plus one) linear feet and shall include one pile load test having a capacity of 250 ton and eight auger withdrawals."

Q55 At several locations in the specification (1.5D, 1.5E, 1.7B, 3.4A and 3.4B) references are made to a fixed mast rig with equipment and instrumentation consistent with the installation of an Augered

Pressure Grouted *Displacement* Pile. These are the only locations this is referenced and piling is not specified as a displacement pile (See <http://www.berkelandcompany.com/apgd.htm> for a description of this pile type) Please confirm piles to be installed are not displacement piles.

**Response: Piles are augered, not displacement.**

Q56 Specification Section 3.3A refers to a grout flow of not less than 21 seconds, please clarify if this is using a standard ½” Flow cone. If so the more standard specification section would reference a flow of 10 to 25 seconds using a cone with a ¾” opening as recommended by the Deep foundations institute specifications.

**Response: Question to be answered in future addendum.**

Q57 Material testing of the Grout cubes is referenced in 3 separate locations in the specification each one providing a different standard to follow. It is referenced in sections 1.8A, 3.7A and 3.7A (there are two separate sections that have the same reference # on page 7 and 8) which section should we follow?

**Response: Please use the testing standards detailed in section 1.8A.**

Q58 Specification section 3.8F require as-built locations of piles to be within two (2) inches of plan location. This is not normal and while we will make every effort not to violate the specified tolerance we can make no guarantees of same. Typically a 3” tolerance is common.

**Response: The allowable tolerance will be changed from 2” to 3”.**

Q59 Pile load testing section refers to the use of ASTM D1143-81 and provides for use of the quick test with a 12 hour hold at 2 times design load. The current ASTM, D1143-07 uses the quick test method as is standard loading method. Given the fact that overload of the pile is required to 2.5 times design it is not typical to have an extended hold period prior to reaching the maximum test load and can cause inconsistencies in your time vs. deflection plots. Please consider switching this reference to the current standard with the typical hold times it provides.

**Response: Question to be answered in future addendum.**

Q60 Two separate contradictory sections of this specification reference the adjacent drilling restrictions. Section’s 3.10A and 3.6A. Please clarify which section is applicable.

**Response: Use section 3.6A**

Q61 At several locations in the specification there are references to “Auger withdrawals” this practice is common in the installation of drilled shafts and Caissons as a method of strata verification. Given the installation methods for APG piles and the geotechnical conditions present at this site Auger withdrawals become impractical and a waste of time and money. When a continuous flighted auger is removed from the ground prior to grouting it is almost impossible to view the walls of the shaft due to its slender nature and due to the augering process the material present on the auger stem is not indicative of the in situ material the same depth below the drill grade. We would ask the auger withdrawals be removed from the specification.

**Response: Question to be answered in future addendum.**

Q62 Currently the Drawing S0173 Detail 4 shows a 180 degree hook at the top of each vertical bar in the APG cage. Depending on the working grade these hooks are impossible to install as shown The projection required for a #8 bar into the pile caps shown is less than 36”. Can the cage detail be amended to show a consistent bar projection into the pilecap utilizing a straight bar in lieu of the hooks currently shown. Varying steel projection above the top of pile dependent on cap thickness adds unnecessary complication to the process and increases the risk of non-conformance.

**Response: Question to be answered in future addendum.**

Q63 The glass speck for the U of L Student Rec Center has some glass specified that is inconsistent with the data and terminology listed.

A. Glass is specified as Solarban 60

Response: Correct

B. Low-E is listed on #3 surface - data is for Low-E #2 surface

Response: The coating to be on the #2 surface.

C. Low-E coated Film: Suspended in the interspace - this is a heat mirror product and is different than the specified product.

Response: (Reference Specification Section 088000 "Glazing") Disregard reference to option for film suspended in the interspace per specification section 088000 "Glazing" Article 2.12.A.9.

D. Low-E is listed on #3 surface - data is for low-E #2 surface

Response: The coating to be on the #2 surface.

E. If the Low-e is moved to the #3 surface the Shading coefficient will change to .56, 15% worse than if it is on the #2 surface.

Response: The coating to be on the #2 surface, all criteria specified shall rule.

F. Argon Gas is listed as being in the spandrel units with out Low-E coating, the benefit of argon is greatly reduced without a Low-E coating.

Response: Specification to remain unchanged.

Q64 Ref. drwg. A-805 detail 18. Can a specification be provided for the electric and manual roller shades?

Response: Roller shades will be required in rooms 102E, 102F, 102G, 102H, 102J, 102K, 102M, 102N, 102P, 102Q, and 102R. Specification Section 122413 "Roller Window Shades" to be included in future addendum. See also Question and Answer 45 of this document.

Q65 Ref. drwg. A-1101 Rm. Bench 112C and drwg. A-112 Rm. Bench 112C. Is the detail 1/A-906 correct for these benches?

Response: Detail 1/A-906 is the correct bench detail for rooms Bench 112C.

Q66 Ref. drwg. A-122; Note 14 refers to detail 3/A-906. Is this the correct detail for these benches?

Response: Note 14 incorrectly references Detail 3/A-906. Detail 1/A-906 is the correct detail for Note 14 on sheet A-122.

Q67 Ref. drwg. A-1103 Gaming Area 399. Is detail 3/A-906 the correct detail for these benches?

Response: Detail 3/A-906 is incorrectly referenced on sheet A-1103 Gaming Area 399. This detail should be 1/A-906.

Q68 Ref. drwg. A-803; Where are details 1, 2 and 3 indicated on the Floor Plans? These details are not indicated on A-519 or A-112.

Response: Reference enlarged locker room drawing A-519. Detail 1/A-803 is located in Women's Lockers 116 and Men's Lockers 120 where lockers are back to back (note that the detail incorrectly shows benches on both sides. See also question and answer 69 of this document.) Detail 2/A-803 is located in Women's Lockers 116 and Men's Lockers 120 where lockers are against a wall surface. Detail 3/A-803 is located in each of the dressing rooms leading into the private showers in both Women's Showers 116B and Men's Showers 120B.



Q69 Ref. drwg. A-803 detail 1; Does this detail apply to this project? Floor plans do not indicate double lockers with benches on both side.

Response: Detail 1/A-803 incorrectly shows a bench on each side of lockers. Refer to enlarged locker room plan on sheet A-519 for location of benches relative to lockers.

Q70 Ref. drwg. A-805 detail 2 high strength corner. Where are these located on the project?

Response: Detail 2/A-805 will occur at window jamb and head conditions and where noted in drawings. Refer also to details in the A-1000 series of drawings.

Q71 Finish plans call for both ceramic wall tile and base in the restrooms. The restroom elevations indicate a ceramic tile base with painted block walls. Do the restrooms receive ceramic wall tile or just base?

Response: All restrooms to receive ceramic tile base on all walls. All restroom to receive ceramic tile on toilet wet walls only. All other walls to be painted gypsum board on painted CMU.

Q71 General note 4 on the fireproofing plans call for intumescent to be applied to joists, trusses, and metal floor & roof deck. There are no U.L. designs which allow for the use of intumescent fireproofing on these structural members. Please advise/clarify how to obtain fire rating for these areas.

Response: Spray applied fireproofing to be used where drawings indicate intumescent fireproofing on metal floor and roof decking. All supporting structural steel where indicated to receive intumescent fireproofing.

Q72 The (74219) Insulated Metal Wall Panels, (84113) Aluminum Storefront and (84413) Aluminum Curtainwall specifications all make note that these products need to be installed by the same installer. Is this how this project needs to be approached?

Response: Refer to Addendum Two (Architectural Items), Item 23.

Q73 The (84113) Aluminum Storefront specification 2.3/A/3 says that the storefront system needs to be front set. All the architectural details show a center set storefront system. Which system is required?

Response: Subject to compliance with design criteria, the glazing plane can be either front set or center set at contractor's option. See also Addendum Two (Architectural Items), Item 24.

Q74 The architectural door schedule (A-1010) and (84113/2.5/A/1) aluminum storefront specification says that all doors need to be 1 3/4" thick. However, the storefront specification (84113/2.5/A/1/a) calls for thermally broken aluminum doors. Thermally broken doors are 2" thick in lieu of 1 3/4". Which door type of door should I bid, a 2" thick thermal aluminum door or 1 3/4" thick non-thermal aluminum door?

Response: Pending selected manufacturer, provide door thickness to meet thickness required for thermally broken aluminum doors.

Q75 The glazing specification (88000/2.1/1) calls for the use of ultra clear (low-iron) float glass. Most of the project has laminated and/or silk screened glass. The performance values for the vision insulated units can be met with standard clear float glass in combination with the specified Low-E. Is the use of ultra clear (low-iron) glass required on this project? If so where would this be applicable?

Response: Float glass shall be ASTM 1036, Type I, Quality – Q3, Class 1 (Clear)

Q76 New drawing from Addendum #1 - UE1100 - Notes 3 & 4: Do we know new locations for poles to be relocated?

Response: The Contractor was referring to notes in BP1 drawings do not apply.



Q77 Drawing E1203 shows details: Are LED fixtures to be install at cabinet fabrication shop?

Response: No, installed by electrical contractor.

Q78 It was stated that Flynn Brothers was already selected for the site contract. Does that include all the work involved on Volume 2 pages SD-1.0 to SD-12.4? If so, are these plans/drawings there for reference?

Response: Bid Package, Phase #1 Site Preparation is site clearing only. Documents for Bid Package, Phase #1 may be used for reference only and are available at Zen Reprographics. All SD drawings in Bid Package, Phase #4, General Contractor Best Value is work included in this bid phase.

Q79 In order to determine appropriate fireproofing material thickness, we'll need to know column sizes. Can the structural steel column schedule be issued as soon as possible?

Response: The structural steel column schedule is included in Bid Package, Phase #3 Structural Steel Fabrication and Erection bid documents. Drawings may be obtained at Zen Reprographics.

Q80 Ref. drawing S0113- At column line 2.4 & F the pile cap is labeled as a PC1 but it is shaped like it should be labeled as a PC2. Is this a PC1 or PC2 at this location?

Response: Per Addendum #2, Drawings, Item #7 Sheet S0113 – Foundation Plan Area C, item i: “The pile cap designation at column grid location 2.4/F should read as “PC2” instead of “PC1”.

Q81 Due to the close proximity to the railroad, is railroad insurance required on this project? If so, please provide details of what is required?

Response: The project scope is defined as within the project limits. No work in the railroad right-of-way is anticipated.

Q82 Reference S0006, 3.2 Slab notes, Item #4 calls for cutting control joints over and along all beams/walls that support joists and or metal decking. Since most of the floors on the 2nd level get floor covering, is this sawcut of control joints required?

Response: No, the saw-cut is not required here.

Q83 I am bidding the above mentioned project and needed clarification on the flooring types. Spec section 096813 only lists one type of carpeting as does the finish legend, however the finish schedule lists 3 types of carpet (CP-1, CP-2 and CP-3). Is this just a color type or a different product

Response: Reference to Carpet (CP-1 , CP-2 and CP-3) are the same product but different color selections within the manufacturers product line. Three colors may be chosen from manufacture's full range of colors.

Q84 Ref. drwg. A-712 and A-1201; The reflected ceiling plan indicates no ceiling in 198, 115B and 115C. The finish plan indicates APC-2 for the ceiling finish in rooms 198, 115B and 115C. Which drawing is correct?

Response: Acoustical Panel Ceiling (APC-2) to be provided in Equipment 115C and Corridor 198. No ceiling will be required in Laundry 115B. M/E/P changes due to added ceiling will be included in future addendum.

Q85 Ref. drwg. A-1201, A-1202 and A-1203; The finish schedule does not indicate a ceiling finish for many rooms. Many of these exposed structure ceilings receive applied fireproofing. Are we to include painting of the exposed structure or fireproofing in the rooms that do not indicate a ceiling finish?

Response: All exposed spray applied fireproofing in rooms without ceilings to receive a painted finish.

Q86 Ref. drwg. A-1101, 1102 and 1103; General note #1 indicates; all athletic equipment shown is Owner Furnished and Owner installed. Please confirm that this note does not apply to the Gymnasium equipment as specified in section 116623?

Response: The questioned note does not apply to the gymnasium equipment. Gymnasium equipment as specified in 116623 is included in scope of work for Bid Package, Phase #4 General Contractor Best Value.

Q87 Sheet S0122 references multiple details (10/S0172 as an example) that have either been deleted or left blank, in one instance 10/S0163 the page is not included in the set. Will these details be made available?

Response: These sketches were included in BP#4 Addendum #2. Also the BP#3 contract drawings are available through Zen Reprographics for informational purposes.

Q88 In the past U of L has had a hard spec for CAT 6 cable of Superior Essex CAT 6E # 54-246-2B cable is this required for this project or are the other manufactures listed in spec acceptable as equal as outlined in section 270100?

Response: Refer to specification section 270100. As listed in 3.3.4 CAT 6 cable shall be superior Essex part number 54-246-2B (No Substitute).

Q89 We didn't see a reference to the Integrator of Record in sections 280750 or 281300 this is related to bring the systems on line with U of L Public Safety, in the past this has been handled as an allowance or over looked all together. Simplex is the Integrator of Record for the University.

Response: Refer to specification section 280750. As listed in part 2 general specifications Camera's shall be incorporated into the Universities Video Management System – All work at the Department of Public Safety including Software, Programming, Encoders, and camera setup, shall be provided by the University's vendor. Refer to the Allowance front end specification.

Q90 Note 5 on page S0123 refers to an ISO LAT system, I cannot find a specification on this product. Can you please advise.

Response: Specification section 013080 "Resilient Sound Isolation Battens" (ISO LAT) was distributed as part of Bid Package, Phase #4 General Contractor Best Value, Addendum #1, Item 1 distributed on February 24, 2012.

Q91 Spec section 084113-2.3-A-3 calls for the glazing plane to be the "front". Storefront Details shown on A-1016, A-1019 & A-1020 all show the glazing plane being the center of the frame. Please advise which one is correct.

Response: Subject to compliance with design criteria, the glazing plane can be either front set or center set at contractor's option. See also Addendum Two (Architectural Items), Item 24.

Q92 Reference elevation details on A-405 thru A-409. What is the finish material on the sloped tops?

Response: The finish material is 5/8" abuse resistant gypsum board with painted finish on 1/2" fire retardant plywood.

Q93 There is no Insulation specification. Usually around 07200 Thermal Insulation. This really should be given in order to bid the job.

Response: Specification section 072100 "Thermal Insulation" will be included in future addendum.