CATOR, RUMA & ASSOCIATES

ADDENDUM NO. 4

For
Owner: University of Colorado Boulder
Project Name: 18th & CO Improvements
CRA#: 2011-260
Date: April 13, 2012

ENGINEER:
Cator, Ruma & Associates
896 Tabor Street
Lakewood, CO 80401
(303) 232-6200

<table>
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<tr>
<th>CONTACT</th>
<th>COMPANY</th>
<th>PHONE</th>
<th>E-MAIL</th>
</tr>
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<tbody>
<tr>
<td>Andy Jordan</td>
<td>University of Colorado Boulder</td>
<td>303-735-5410</td>
<td><a href="mailto:andy.jordan@colorado.edu">andy.jordan@colorado.edu</a></td>
</tr>
</tbody>
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General Information:

4.1 Refer to Pre-Bid RFI question and response document for bidding question responses.

4.2 Replace previously issued Bid Alternate Form in its entirety with the revised form.

Mechanical Specifications

Section 230523 and Drawing M1.0:

4.3 Underground valves for the chilled water system piping shall be DeZurik ductile iron flanged butterfly valves, or approved equal.

Mechanical Drawings

Sheet: M0.1:

4.4 Callout on utility trench detail incorrectly references note #4. The callout should reference note #3 for steel plate information.

Sheet: M1.0:

4.5 Contractor to provide temporary filter housing and pre-filter media at the ground level at outside air intakes of the Muenzinger Building. Replace filter media every two weeks or as required due to weather conditions.
Civil Drawings:

General: Refer to clouded changes on revised Addendum #4 sheets.

Sheet C5:
4.6 Replace previously issued sheet in its entirety with the revised Addendum #4 sheet.

Sheet C6:
4.7 Replace previously issued sheet in its entirety with the revised Addendum #4 sheet.

Sheet TR4:
4.8 Refer to the new sheet TR4 – Traffic Lane Closure Plan.

Structural Drawings:

General: Refer to clouded changes on revised Addendum #4 sheets.

Sheet S0.1:
4.9 Replace previously issued sheet in its entirety with the revised Addendum #4 sheet.

Sheet S1.0:
4.10 Replace previously issued sheet in its entirety with the revised Addendum #4 sheet.

Sheet S1.1:
4.11 Replace previously issued sheet in its entirety with the revised Addendum #4 sheet.

Sheet S2.0:
4.12 Replace previously issued sheet in its entirety with the revised Addendum #4 sheet.

Sheet S2.1:
4.13 Replace previously issued sheet in its entirety with the revised Addendum #4 sheet.

Landscape Drawings:

Sheet L1:
4.14 Refer to the new sheet L1 – Landscape Plan Notes.

Sheet L2:
4.15 Refer to the new sheet L2 – Landscape Planting Detail.

The preceding addendum shall be made a portion of the contract Documents. Each bidder shall acknowledge receipt of the same in submitting bids. All other conditions and requirements of the Contract Documents will remain unchanged.

END OF ADDENDUM
Responses to RFI Dated April 10 2012 from Krische Construction:

**Question #1:** Concept Sequencing with Add Alternate #9 states to install curb and gutter without pedestrian ramp. Is this pedestrian ramp part of the new pedestrian crossing table and cross walk?

**M/M Response:** Note is only applicable to the “Concept Sequencing without Add Alternate 2”. See revised sheet for clarification.

**Question #2:** ADD ALT. 1 is called out on this sheet. Is this the correct alternate?

**M/M Response:** Should be Add Alt. 2. See revised sheet.

**Question #3:** Which alternate is for the full depth flow fill?

**M/M Response:** That note has been revised. Flow fill is the base bid.

**Question #4:** ADD ALT. 1 is called out on this sheet. Is this the correct alternate?

**M/M Response:** Should be Add Alt. 2. See revised sheet.

**Question #5:** Which alternate is for the full depth flow fill?

**M/M Response:** That note has been revised. Flow fill is the base bid.

**Question #6:** Three bike racks are shown in the base bid concrete area. Are these relocated racks or are we to supply new?

**M/M Response:** All bike racks relocated. No new racks proposed.

**Question #7:** Drawing No. 2.81 references Drawing No 2.87, could you please provide this detail?

**M/M Response:** Detail now provided.

**Question #8:** The PDF file provided does not show all of the details for sheet TR2. Please provide entire sheet.

**M/M Response:** PDF corrected.

**Question #9:** There are two triangles (one at N:1246267.24, E: 3065536.25 and one at N:1246138.68, E: 3065431.37) what do these triangles represent and are they a part of base bid?

**M/M Response:** The triangles are control points and are now labeled as such.
Question #10: Please confirm that there are no liquidated damages.
CU Response: There are no liquidated damages.

Question #11: There are five boxes that appear to be planters – 2 in the base bid area, by the relocated 15 MPH sign and by the pedestrian crossing table and 3 in the alternate #2 area, two are by the new curb in front of the Muenzinger Psychology Bldg and one East of one of the 18” Seat Walls. Please confirm if these are planters or do they indicate tree grates?
M/M Response: Tree grates now labeled. See sheet for clarification.

Question #12: There are three triangles (1 south of the new concrete walk, 1 on the south end of the new concrete walk and 1 east of the new planter) what do these triangles represent and are they part of base bid?
M/M Response: The triangles are control points and are now labeled as such.

Question #13: Please confirm which alternate the additional work described under the heading “Concept Sequencing with Add Alternate” is to be associated with. It appears that it is Alternate #2.
M/M Response: Yes, title has been revised. See revised sheet.

Question #14: Does the description of the Add Alternate mean to add the work inferred above, that the additional work is to be done at night as well as the base bid work in he shaded area?
M/M Response: Sequencing and Add Alternates have been clarified. See revised Sheet.

Question #15: Are the chilled water extensions shown with hexagonal hatching part of the Add Alternate?
M/M Response: See revised sheet for clarification.

Question #16: New Inlet #2 (base bid) connects to ST-4 (15” RCP) that connects to what appears to be an existing manhole DT- MH-1. However, it is noted to remove and replace this manhole. Is this a new manhole? If so, this part of base bid or Alternate #2?
M/M Response: Yes, it is an existing manhole and is part of the Base Bid.

Question #17: The crosswalk table section on C14 shows concrete caps at their ends and periodically across the length of the crosswalk. These caps are not indicated on the crosswalk shown on sheet C11. Are they to be used?
M/M Response: Caps have been added to sheet C9 plan view as desired. Coordinate with Project Manager and Campus Landscape Architect prior to construction.

Question #18: The crosswalk shows brick pavers abutting to new asphalt. Is this correct?
M/M Response: Yes. It is “Soldier Course” as indicated on sheet C11 in the legend. Coordinate with Campus Landscape Architect.

Question #19: Can the entire street within the project limits be completely closed at night? Please describe the requirements for Traffic use.
M/M Response: See sheet C1 and Attachment #1 (attached) for clarified construction sequencing. Coordinate with Project Manager Prior to Construction. In general, at times, the entire project area can be closed at night.

**Question #20:** Due to the release of the additional project documents (100% drawings, bid documents and procedural documents and specifications) we are requesting a week postponement for the bid due date.

**CU Response:** See Addendum #3.

**Question #21:** Due to the release of the specifications we are requesting an extension for questions until Friday April 13, 2012.

**CU Response:** See Addendum #3.

**Question #22:** Per the pre-bid meetings it was discussed that if we cross within 12” of the 24” RCP that we would need to use a cradle system that would be further detailed in the specifications. Is this detailed in the specifications as we could not find any reference in the 100% drawings?

**M/M Response:** Concrete cradle detail added to sheet C4.

**Question #23:** Note #2 references sheet CXX. Please provide sheet CXX.

**M/M Response:** References now provided.

**Question #24:** Note #5 references sheet CXX. Please provide sheet CXX.

**M/M Response:** References now provided.

**Question #25:** There is a note in he “Tree Grate for Sidewalk Planting” that calls to plant the root ball 3”- 4” higher than structural soil mix. Are we to furnish new trees for this project? If so, how many, in what locations, what type and are they in the base bid or all alternates?

**M/M Response:** Trees are now shown on the plans and can be seen on sheets C9 and 10. Trees shall be 2” caliper deciduous trees. Variety to be determined by the Campus Landscape Architect. It appears that there are to be 7 trees unless otherwise indicated by the Campus Landscape Architect. Confirm with Campus Landscape Architect.

**Question #26:** The "Mechanical Utility Trench Piping Detail - Chilled Water" calls for Steel Plate, where required see note 4. Please provide note 4.

**CRA Response:** There is no note #4. Refer to note #3 for additional information for the steel plates. The callout on the drawing incorrectly references note #4, where it should be referencing note #3.

**Question #27:** There is a note attached to Tunnel #1 that a "partition wall inside tunnel to be removed". Is this work part of the base bid or an alternate?

**M/M Response:** The structural plan sheets are separated as such: One sheet containing base bid items (Sheet S1.0 "Base Bid Structural Plan") and one sheet containing add alternate # 2 items (Sheet S1.1 "Add Alternate #2 Structural Plan"). The partition wall to be removed is shown on sheet S1.0 and should be priced in the base bid. For additional info, this wall is a steel stud and gyp board wall to be removed and discarded.
Question #28: The drawings call for "others" to make the supply and return connections at the Power House. How will this coordination work since this will affect direction of work and phasing?

M/M Response: Coordination with project manager to finalize the connection shall take place prior to start of construction. However, in summary, if others have already installed at the time of construction, then Contractor shall connect to their pipes. If they have not installed their pipes, then provide the caps as shown and they will connect into our pipes.

Responses to RFI - Part 2 Dated April 12 2012 from Krische Construction:

Question #1: In the "Tree Grate for Sidewalk Planting" detail there are two different sizes of tree grates called out - 6'x6' and 5'x5'. Which is correct?

M/M Response: There should be tree grates placed around existing trees and tree grates placed around proposed trees. 6’x6’ tree grates shall be used. See sheets C9 and C10 for clarification. Detail has been revised.

Question #2: For the 10'x6.5' planters are they to receive tree grates as well? If so should the size.

M/M Response: Large planters do not need tree grates. See revised Sheets for clarification.

Question #3: In the Legend there are two different lines (one thick & dark and one thin & light) that indicate "Thickened Edge Expansion Joint". Are both lines supposed to indicate the same thing?

M/M Response: The top thin line is actually a contraction joint (saw joint) and the thick line is the thickened edge.

Question #4: In the Legend there is an item for "Reinforced Slab (See "Slab Reinforcement Detail" on Sheet C11. There is no such detail on C11. Please provide.

M/M Response: See revised detail sheet C15 for detail.

Question #5: In the paving legend there is an item for Asphalt and on the drawing there is only one area on sheet C9 that indicates asphalt and that is over on the new plaza at the 6" thick concrete by L11 & L12. Is this the only area to receive asphalt? Sheet C10 shows asphalt on Colorado Ave. Should that also be the same on sheet C9?

M/M Response: This has been corrected. Please see revised sheet.

Question #6: What is the finish material for this area? None is given on this sheet. Are there any details for this area as well?

M/M Response: See detail sheet C14.

Responses to RFI email from John Eddy Dated April 12 2012:

1. On sheet C11, there are two hatch types shown designating the concrete slab type to be built. The first is denoted as “6 in. concrete”, the second (dark gray shading) refers to a “reinforced slab detail (see sheet C11)”. This detail could not be located. Can it be
assumed the 6” concrete and “reinforced slab” are of uniform construction, given the layout shown on sheet C11 and constructability concerns if this were not the case?

**M/M Response:** Detail has been re-named to assist. See sheet C15. The depths of both concrete sections as defined by the shading is to be 6”.

2. Sheet C1 defines the base bid and alternate bid. Under the Base Bid heading, the scopes of work listed show a “night work” designation. The specification section 01030.1.02A defines the alternates as night work, with Alternate 2 including the base bid and additional landscape/hardscape/bike rack work as shown on C1. Can it be assumed that the Base Bid column on C1 is intended to define the scope of the base bid only, and not to define it as night work? If this is not the case, some clarification in regards to the actual base bid scope (amount of hardscape, landscape, etc.) would be greatly appreciated.

**M/M Response:** Alternatives have been revised on C1 to reflect the correct intent outlined in the specs and at the Pre-Bid.

3. What cover up work is required under the base bid contract for the chilled water excavation? It is assumed that any excavation for the installation of the Chilled Water will be covered to match existing conditions, but should it be patched in a manner that will more easily facilitate future work?

**M/M Response:** Per specifications the backfill for the chilled water is flow fill. As to the ends of each pipe for the base bid (assuming alt #2 is not selected) the plans indicate required capping of the pipe. Backfill to surface is to match specifications for the bid. Temp asphalt is required following night work and for final completion the trench will receive standard asphalt patch back.
STATE OF COLORADO
OFFICE OF THE STATE ARCHITECT
STATE BUILDINGS PROGRAMS

BID ALTERNATES FORM- Addendum #4

Institution/Agency: University of Colorado at Boulder
Project No./Name: CP 133647 / CAMP- 18th & Colorado Improvements

Additive alternates will not be used if deductible alternates are used and deductible alternates will not be used if additive alternates are used.

Additive Alternates - Refer to specification section 01030 for descriptions of add alternates. If the add alternates are accepted, the base bid would be modified by the amount entered by the bidder.

A.A. No. 1  Change base bid landscape/civil day work from normal day work hours to evening work hours 8:00 PM to 6:00 AM.  Add $

A.A. No. 2  Full scope of work performed at night from 8:00 PM to 6:00 AM.  Add $

THE BIDDER:

Company Name

Signature  Date