Autodesk Construction Cloud (ACC) Guide-Change Order Process

Civil Infrastructure

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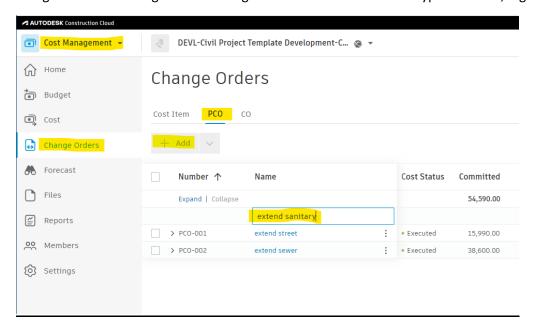
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This guide only covers the basic process for Negotiated or Bid Change Orders that may or may not have a schedule extension. For less common workflows, see the advanced guide for more detail on the following topics:

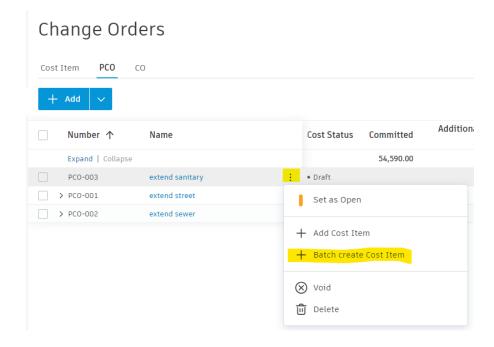
- You need to prepare a CO with input from the project manager or other city agencies
- During PCO review with Contractor, the contractor will not sign and you need to redo
 PCO
- After PCO signoff by Contractor, you need to change account numbers but not item Qtys or bid prices
- During CO internal review, reviewer selects Revise because more justification is needed
- During CO internal review, reviewer selects Revise due to issue with Cost or Schedule. This includes situations such as the Board of Public Works rejecting a CO.

1. Cost Management - Construction Inspector creates PCO

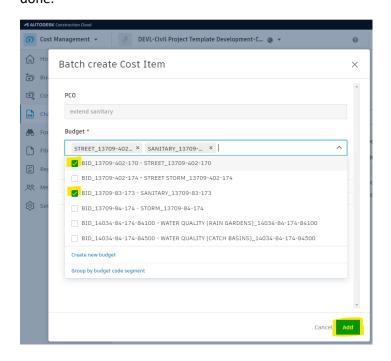
Navigate to Cost Management > Change Orders > PCO. Click Add. Type a concise, logical name



Click the 3 vertical dots next to the name. Select Batch Create Cost Item



done.

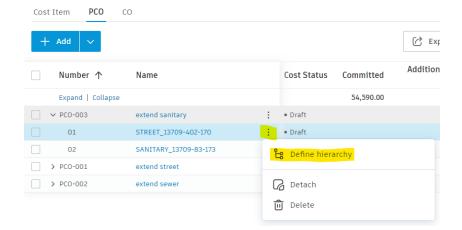


This will create Cost Item(s) that are automatically named after accounts.

Important: Do not rename Cost Items.

You will now see the Cost Item(s) below the PCO. Click the 3 vertical dots and select Define Hierarchy. This will bring up the flyout.

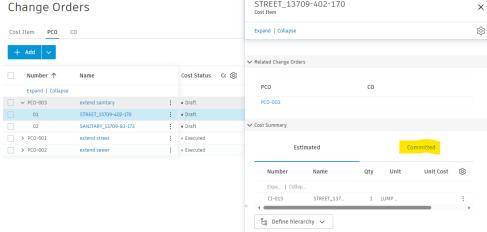
Change Orders



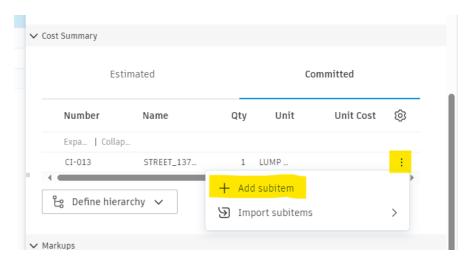
2A. Cost Management-Construction Inspector inputs negotiated items

If bid, skip to skip 2B

If <u>negotiated</u>, Click **Committed** tab. Estimated is not used at all in Cost Management. STREET_13709-402-170

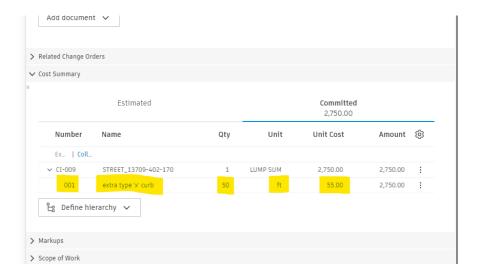


Click vertical 3 dots icon. Select + Add subitem.

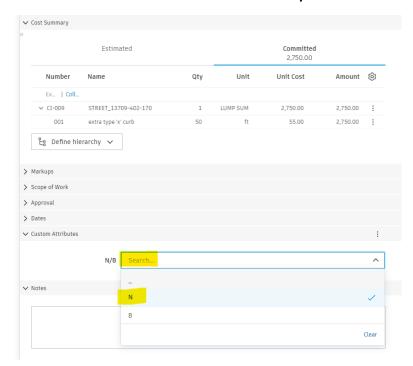


Input information for Number (format 001), Name, Qty, Unit and Unit Cost. ACC will calculate the amount automatically.

Tip: You can expand the flyout by hovering on the left side to bring up resize arrow. You can also expand the Name column.



Scroll down to custom attributes. Select N for N/B field:



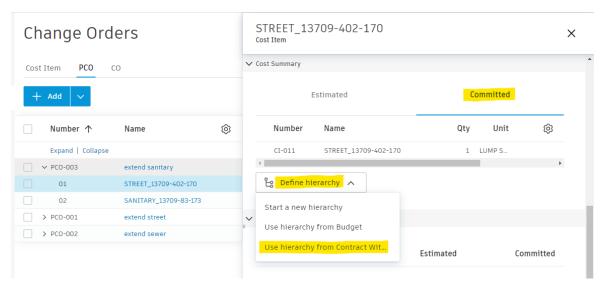
Complete the same steps for the other account number-add bid items, input committed quantities and select N or B.

Note that each Cost Item is marked as either Negotiated or Bid. If you need a bid and negotiated item from the same budget, you must create two cost items.

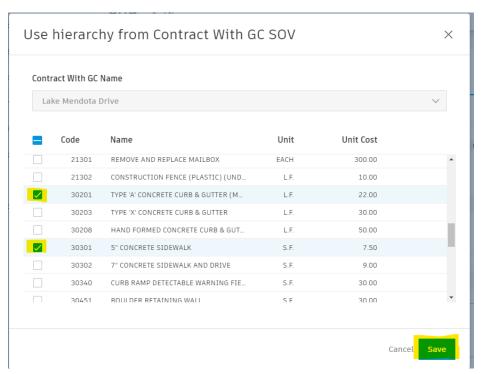
2B. Cost Management-Construction Inspector inputs bid items

If bid, Click Committed tab. Estimated is not used at all in Cost Management.

Select Define hierarchy. Select Use hierarchy from Contract With GC.

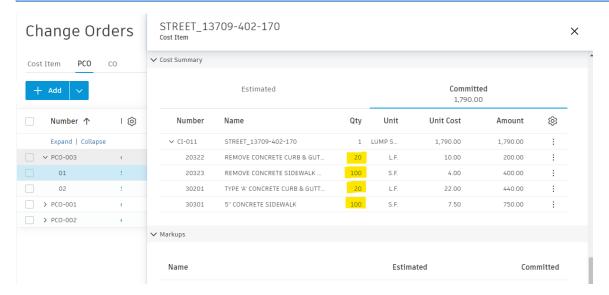


Click check box next to applicable bid items. Click Save.

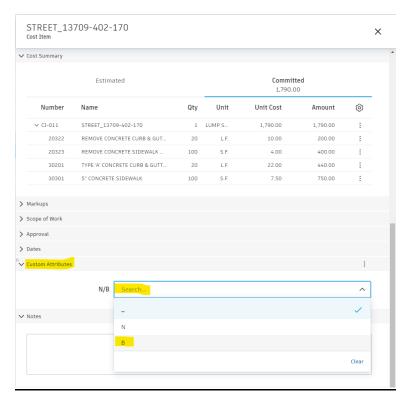


Enter Qty for each bid item. The amount of each bid item and total for the account are calculated as you input data:

Tip: You can expand the flyout by hovering on the left side to bring up resize arrow. You can also expand the Name column.



Scroll down to Custom Attributes section or click section titles to collapse. Select N (for Negotiated) or B (for Bid).



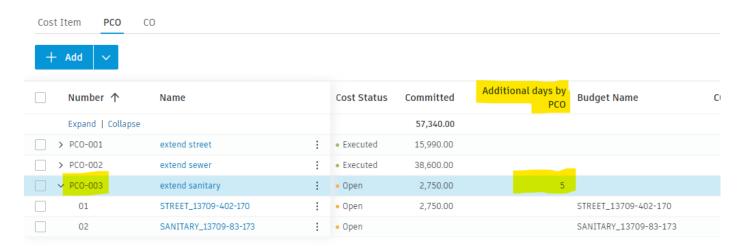
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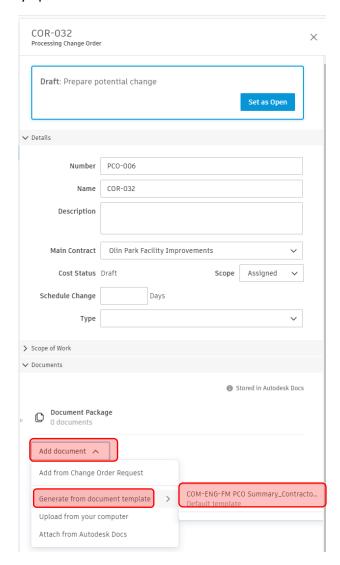
3. Cost Management - Construction Inspector prepares Change Order for Contractor Signoff

If you need to extend the contract completion time, you will need to input this information for the PCO. Input **New End Date by PCO** or **Additional days by PCO** depending on contract. This is the new contract end date or additional days as a result of this change order. Note that you are unable to assign a value to the cost items underneath the PCO

Change Orders



Click the name of the PCO to bring up the flyout. Under Documents, click *Add document* and then select *Generate from document template*. Select the only option.



Open the document package to open the file that the contractor will review. Verify that everything is correct.

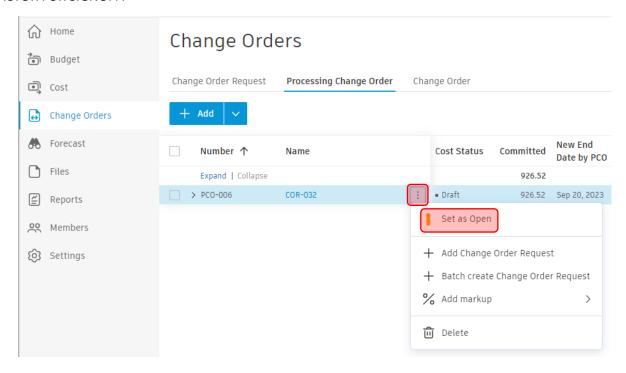


Important: This form is a legally binding change to the contract. Ensuring the file is correct is critical so that the contractor can agree to the contract changes.

Changes to data in the system aren't immediately populated—you must regenerate document template if anything is changed.

IMPORTANT: Setting a PCO to open with an up-to-date merged document package PDF will trigger an automation that performs several steps. An up-to-date merged document package means that the document package has been opened since the latest change to one of the documents composing it was changed. **Be sure document package PDF is correct before setting PCO to open because setting PCO to Open sends the agreement to the contractor for signature.**

Click the 3 vertical dots next to the PCO **Name**. Click **Set As Open** ONLY IF YOU ARE READY FOR SYSTEM TO EMAIL CONTRACTOR FOR SIGNOFF.



The automation will create a CO Signoff by GC form and send you an email to notify you.

If the document package PDF was not opened after its XLSX file composing it was changed, the form will not be created upon setting to Open. In that case, you will have to Set the PCO as Void, remerge the files and then Reopen the PCO to create a new form for the GC to sign. Archive the old form in this case

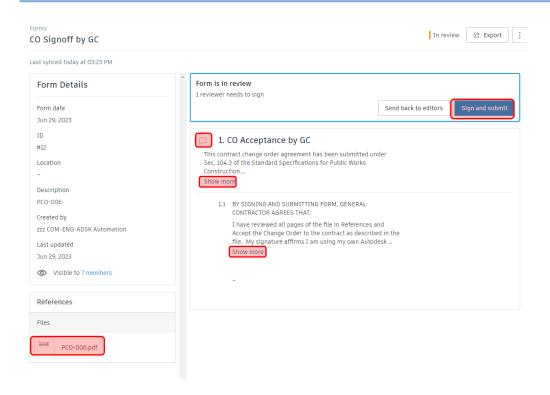
4. Build-Contractor signs off CO Signoff by GC Form

Contractor will receive an *Action Required…* email with a link to a form *CO Signoff by GC.* Follow the link. View the file reference. Click *Show More* to read entirety of statements.

If you approve, add select *Sign and Submit*. If you have any questions or are not ready to sign, use the comments. The methodology to add comments by clicking the dialog bubble icon as shown is the same as it was for the *COR by GC form*.

If through comments it is determined that the document needs changes, select Send back to editors.

Important: Only Sign and Submit the form if you approve the Change Order and your signature looks good. The form cannot be edited after you submit.

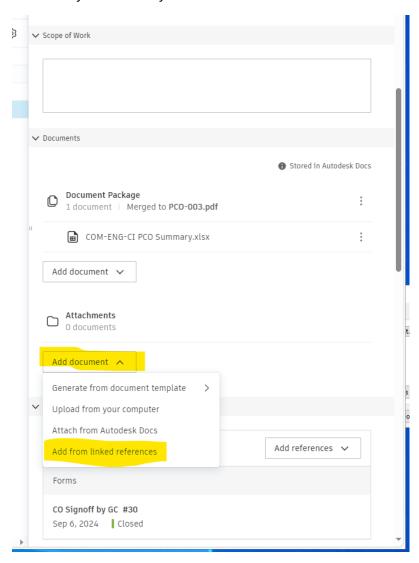


5. Cost Management-Construction Inspector prepares Change Order for staff review

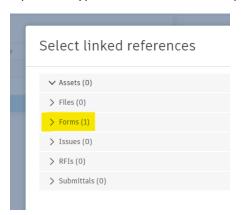
After the contractor has signed the *CO Signoff by GC form,* the Construction Inspector will receive an Autodesk email immediately. It contains a link to the Form, which alone isn't of much use.

You will also receive a Workato email within 5 minutes that contains a link to the corresponding PCO and Form. **Next, we need to attach documentation to the PCO to show that contractor has signed off.**

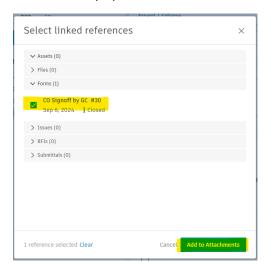
In Workato Email, open link to PCO. In flyout, scroll to *Documents* section. Under *Attachments* click *Add Document*. Select *Add from linked references*.



6 possible types of references show up in the list but only 1 actually is present under Forms. Expand Forms



Select the only option:



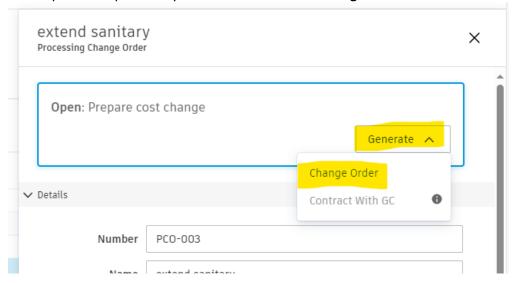
Important: wait for blue wheel next to filename to finish spinning before proceeding.



The appearance of the PDF icon indicates successful upload of the attachment.

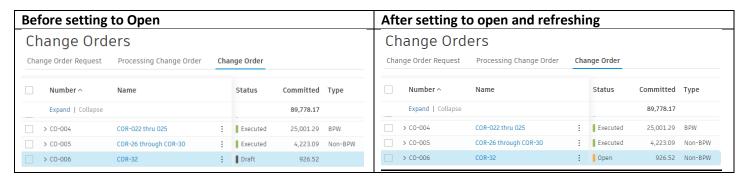


Scroll up to the top of the flyout. Select Generate > Change Order



Failure to correctly attach the 1 exported file and only the 1 exported file will result in an error message. The error message is communicated by the name of the generated Change Order. Any erroneous Change Orders must be deleted and recreated, the next time following the instructions.

Upon Creation of the Change Order, ACC will switch to the Change Order Tab. Click *Set as Open*. A Workato Recipe will automatically analyze and then set all Open COs as BPW or non-BPW.

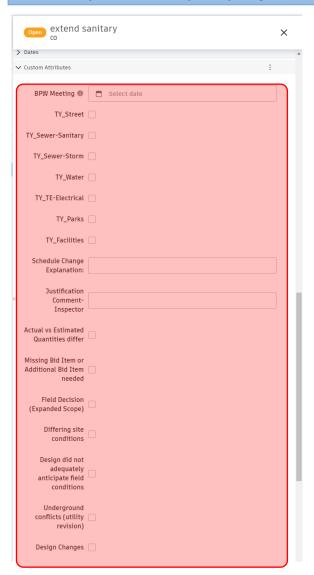


Important: Never manually input data into the Type column, New End Date by CO or Additional days by CO columns.

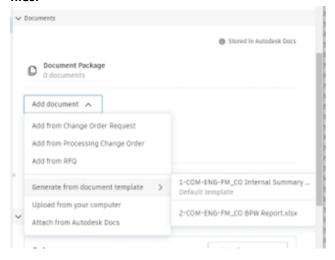
Click blue text for name of CO to bring up flyout. Scroll down in flyout to add data to Custom Attributes. Always select types. Provide a Schedule Change Explanation as needed.

ACC Guide-Change Order process

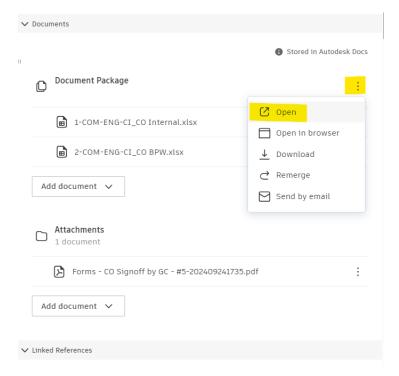
2024 09-16 Update: Do not input anything for BPW Meeting



After entering in Custom Attributes Data, scroll back up to Documents Package. Create Document package as shown below. Very similar to the process for the PCO. Note that the document package will not reflect any data modifications after its creation. Always create 1-COM-ENG-FM_CO Internal.xlsx template. For BPW type COs, also create 2-COM-ENG-FM_CO BPW.xlsx. **Do not edit these files-instead, change custom attributes and then regenerate to update XLSX files.**



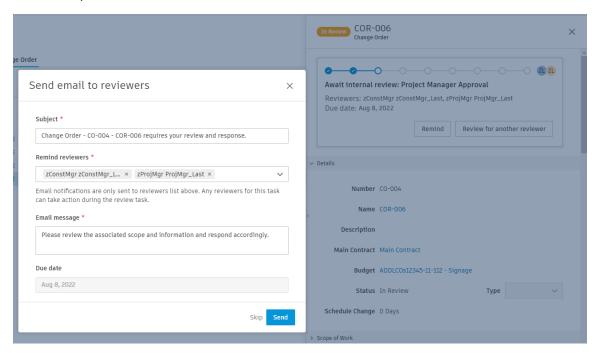
Click 3 dots at top level next to document package to open to PDF



TIP: If you need to change custom attributes, you must also update the Document Package. Click the triple vertical dot icon next to the Justification file and select Regenerate. You will also need to reopen the Document Package for the changes to be reflected on the document reviewed by staff. A new version will also be created.

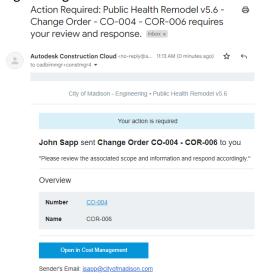
6. Cost Management-Project Manager provides comments and City Staff review

Click blue *Send* button in the upper right of the flyout. A pop up to *Send email to reviewers* will appear. Hit Send to start the review process.



Now the Change order will work through the Change Order Approval Workflow. It is a series of 5 (Non-BPW COs) or 7 (BPW COs) steps, some of which have multiple reviewers able to complete the review on a first come first serve basis. The Change Order will be listed as *Await Internal review:* **Step name** where **Step name** is the custom name given on the Change order approval workflow. The next reviewer in line is also listed.

The process is nearly identical for each step, so just one Approval step is shown in this guide. The first step is always the Project Manager. The Project Manager must always provide a comment for Change Order Justification.



<Sample of Email. Review staff would follow link via blue Open in Cost Management button

Clicking review in ACC will bring up this window submit 4- Submit after selecting Response Review Change Order Cancel Documents Document Package : 1- Select *Open* to view Document Package 1 document PDF in the system MSN-FM-CO DocTempl.xlsx Generated from template by John Sapp | Aug 5, 2022 Attachments 1 document PCO-005-COR-006.pdf Uploaded by John Sapp | Aug 5, 2022 : 2- Select Open to view Attachments PDF in the system Response * 3-Select Proceed or Revise The Change Order will be submitted for the next review step: Staff Review once all required reviewers respond with 'Proceed' Comments 3R-If Revise is selected as the Response, then a comment must be provided prior to Submit. Note ZL Add a comment

After completion of staff review, an email is generated and sent to contractor with a link to the document package and the change order in ACC.

that this will reset entire review process. It is best to first use @functionality to resolve any issues.

Do not execute the change order after you receive the notice that it is sent. **Only City Engineering's** accountant should set the Change Order as executed only after it has been executed in MUNIS

The Project Manager must always provide a comment here.