

# BIM360 Solutions

*Of Autodesk*

*“MUK” LLC (MUK Group of Companies)*

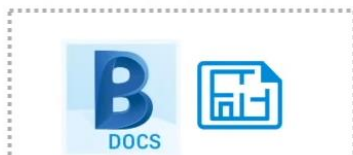
*Dmitry Makarov  
Brand Manager for Autodesk Solutions*

# О Компании

- Группа компаний МУК была основана в 1997 г.
- Представлена в 15 странах
- Портфолио вендоров: 80+
- Партнерская сеть в Украине: 900+ ,
- Партнерская сеть в в др. странах СНГ и ЦА: 550+
- Количество персонала: 500+
- 100% бизнеса МУК – это Value Added дистрибуция по модели B2B
- Более чем 2-кратный рост бизнеса в СНГ (без Украины) каждый год в течение последних 3 лет
- Локальные сервисные и учебные центры
- Локальные инженеры, бренд и сейлз менеджеры, логисты во всех странах присутствия
- Система автоматического биллинга для ПО с маркетплейсом для партнеров



# BIM 360 СОСТАВ ПАКЕТОВ



|                        |                                                                                                            | DESIGN                                                                                                                  | GLUE                                                                                                                                                 | BUILD                                                                                          |
|------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
|                        |                                                                                                            | <ul style="list-style-type: none"> <li>Design Collaboration</li> <li>Revit Cloud Worksharing</li> </ul>                 | <ul style="list-style-type: none"> <li>Model Coordination</li> </ul>                                                                                 | <ul style="list-style-type: none"> <li>Field Management</li> <li>Project Management</li> </ul> |
|                        |                                                                                                            | <b>Classic Products</b> <ul style="list-style-type: none"> <li>Collaboration for Revit</li> <li>BIM 360 Team</li> </ul> | <b>Classic Products</b> <ul style="list-style-type: none"> <li>BIM 360 Glue</li> <li>BIM 360 Layout</li> <li>Navisworks / APL (25+ packs)</li> </ul> | <b>Classic Products</b> <ul style="list-style-type: none"> <li>BIM 360 Field</li> </ul>        |
| Single Data Repository | <ul style="list-style-type: none"> <li>Document Management</li> </ul>                                      | <ul style="list-style-type: none"> <li>Document Management</li> </ul>                                                   | <ul style="list-style-type: none"> <li>Document Management</li> </ul>                                                                                | <ul style="list-style-type: none"> <li>Document Management</li> </ul>                          |
| Dashboards & Analytics | <ul style="list-style-type: none"> <li>Project Home</li> </ul>                                             | <ul style="list-style-type: none"> <li>Project Home</li> </ul>                                                          | <ul style="list-style-type: none"> <li>Project Home</li> </ul>                                                                                       | <ul style="list-style-type: none"> <li>Project Home</li> <li>Insight</li> </ul>                |
| Administration         | Centralized account-, project- and member administration (Project Administration / Account Administration) |                                                                                                                         |                                                                                                                                                      |                                                                                                |

[illegible]

# BIM 360 Document

Version 1 vs. Version 5

The screenshot displays the BIM 360 Document software interface. The main view shows a 3D model of a building with a red roof and green walls, set against a white background. The model is viewed from an isometric perspective. The interface includes a top navigation bar with a 'Version 1 vs. Version 5' dropdown. On the right side, there is a 'CHANGES' panel that provides a summary of modifications. This panel includes three colored boxes for 'Added' (178), 'Removed' (351), and 'Modified' (16) items. Below these, it lists 'Disciplines affected' and 'Modification type' with corresponding icons. A search and filter bar is also present. The bottom of the panel features a 'Flat Result List' with a 'Result as Tree' option. The list contains several entries, including '3500 Lbs.CO (GPQ3LU) # [7041391]', '3500 Lbs.SS (GPQ3LU) # [7041065]', '3500 Lbs.SS (GPQ3LU) # [7041172]', 'AED Cabinet [8835035]', 'AG (AB-Glass) - PR [1889766]', and 'AG (Chipperfield-Glass) - PR [5888939]'. The bottom right corner of the interface shows a 'A101.3' label.

**CHANGES**

178 Added 351 Removed 16 Modified

Disciplines affected Modification type

Search + Filter

**Flat Result List** Result as Tree

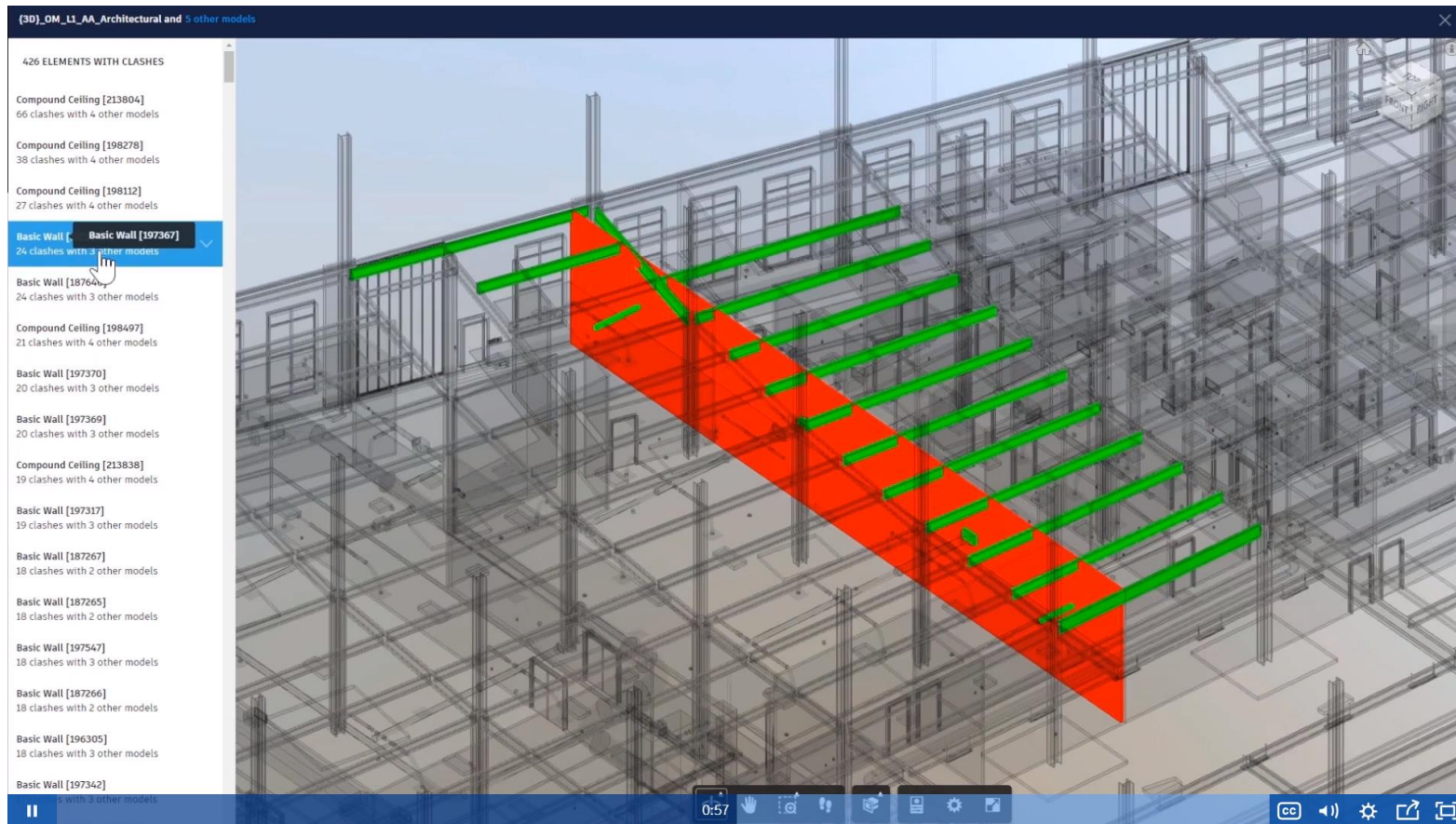
- 3500 Lbs.CO (GPQ3LU) # [7041391]
- 3500 Lbs.SS (GPQ3LU) # [7041065]
- 3500 Lbs.SS (GPQ3LU) # [7041172]
- AED Cabinet [8835035]
- AG (AB-Glass) - PR [1889766]
- AG (Chipperfield-Glass) - PR [5888939]

A101.3

# BIM 360 Coordinate

| Model Coordination                                           |                                 |                                    |                                 |                                |                           |                               |                                 |                                                   |                                    |                                 |                                |                           |  |
|--------------------------------------------------------------|---------------------------------|------------------------------------|---------------------------------|--------------------------------|---------------------------|-------------------------------|---------------------------------|---------------------------------------------------|------------------------------------|---------------------------------|--------------------------------|---------------------------|--|
| MODELS CLASHES                                               |                                 |                                    |                                 |                                |                           |                               |                                 |                                                   |                                    |                                 |                                |                           |  |
| Active Assigned Closed                                       |                                 |                                    |                                 |                                |                           |                               |                                 |                                                   |                                    |                                 |                                |                           |  |
| Shared for Coordination ▾                                    |                                 |                                    |                                 |                                |                           |                               |                                 |                                                   |                                    |                                 |                                |                           |  |
| Last clash check 30 Oct 2018 14:32                           |                                 |                                    |                                 |                                |                           |                               |                                 |                                                   |                                    |                                 |                                |                           |  |
| All models ▾                                                 |                                 |                                    |                                 |                                |                           |                               |                                 |                                                   |                                    |                                 |                                |                           |  |
| Search for models                                            |                                 |                                    |                                 |                                |                           |                               |                                 |                                                   |                                    |                                 |                                |                           |  |
|                                                              | {3D}_Hospital_L0_Structural.rvt | {3D}_Hospital_L1_Architectural.rvt | {3D}_Hospital_L1_Electrical.rvt | {3D}_Hospital_L1_FireAlarm.rvt | {3D}_Hospital_L1_HVAC.rvt | {3D}_Hospital_L1_Plumbing.rvt | {3D}_Hospital_L1_Structural.rvt | {3D}_Hospital_L2-5_Architectural_Curtain_Wall.rvt | {3D}_Hospital_L2_Architectural.rvt | {3D}_Hospital_L2_Electrical.rvt | {3D}_Hospital_L2_FireAlarm.rvt | {3D}_Hospital_L2_HVAC.rvt |  |
| {3D}_Hospital_L0_Structural.rvt<br>66 clash groups           |                                 | 8                                  |                                 |                                |                           |                               | 65                              |                                                   |                                    |                                 |                                |                           |  |
| {3D}_Hospital_L1_Architectural.rvt<br>472 clash groups       | 10                              |                                    | 155                             | 109                            | 212                       | 28                            | 321                             |                                                   | 94                                 |                                 | 1                              |                           |  |
| {3D}_Hospital_L1_Electrical.rvt<br>265 clash groups          |                                 | 244                                |                                 | 1                              | 42                        | 1                             | 3                               |                                                   | 181                                |                                 |                                |                           |  |
| {3D}_Hospital_L1_FireAlarm.rvt<br>221 clash groups           |                                 | 221                                | 1                               |                                | 2                         |                               |                                 |                                                   | 213                                |                                 |                                |                           |  |
| {3D}_Hospital_L1_HVAC.rvt<br>470 clash groups                |                                 | 456                                | 48                              | 2                              |                           |                               | 3                               |                                                   | 210                                |                                 |                                | 2                         |  |
| {3D}_Hospital_L1_Plumbing.rvt<br>30 clash groups             |                                 | 30                                 | 1                               |                                |                           |                               |                                 |                                                   |                                    |                                 |                                |                           |  |
| {3D}_Hospital_L1_Structural.rvt<br>385 clash groups          | 92                              | 371                                | 3                               |                                | 2                         |                               |                                 | 3                                                 | 95                                 | 1                               |                                |                           |  |
| {3D}_Hospital_L2-5_ural_Curtain_Wall.rvt<br>482 clash groups |                                 |                                    |                                 |                                |                           |                               | 3                               |                                                   | 23                                 |                                 |                                |                           |  |
| {3D}_Hospital_L2_Architectural.rvt<br>564 clash groups       |                                 | 58                                 | 94                              | 103                            | 99                        |                               | 263                             | 3                                                 |                                    | 97                              | 81                             | 170                       |  |
| {3D}_Hospital_L2_Electrical.rvt<br>306 clash groups          |                                 |                                    |                                 |                                |                           |                               | 1                               |                                                   | 304                                |                                 | 6                              | 81                        |  |

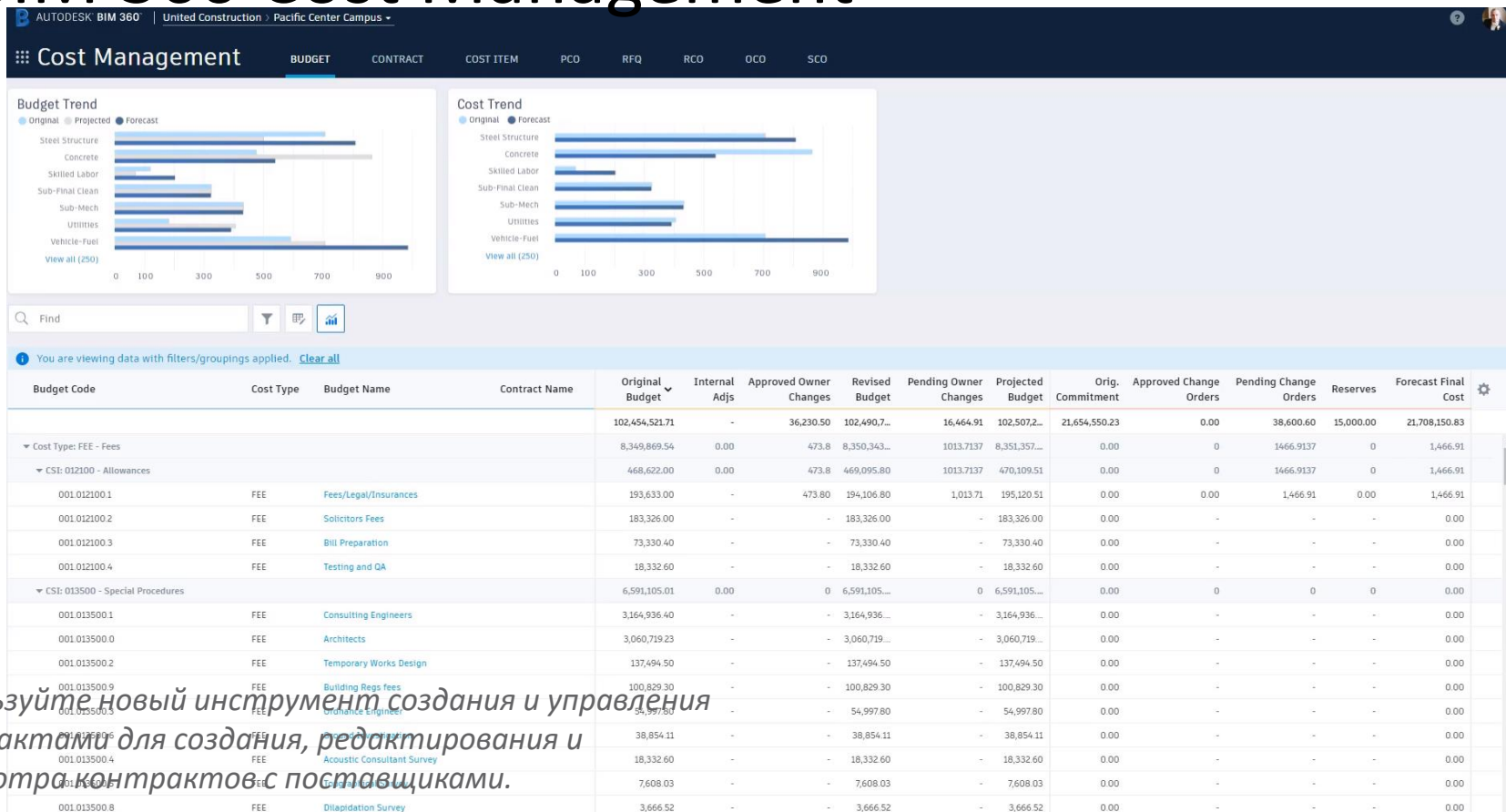
# BIM 360 Coordinate



# BIM 360 Coordinate



# BIM 360 Cost Management



Используйте новый инструмент создания и управления контрактами для создания, редактирования и просмотра контрактов с поставщиками.

# BIM 360 Cost Management

Project Admin

MENBERSCOMPANIESSERVICESPROFILE

New Formula

CancelSave

Details

Sample cost basis 10,000.00

Drag and drop to add formula item

Markup0.00

Subtotal0.00

Markups can be added, removed, named and re-ordered as required. After setting the calculation type and amount for each, the amounts are calculated on the shown 'Cost Basis'.

Subtotals can be added, removed, named and re-ordered as required. Setting the sub total type is reflected in the 'Cost Basis' number.

| Name              | Amount | Cost Basis | Result    |
|-------------------|--------|------------|-----------|
| Insurance         | 2.00%  | 10,000.00  | 200.00    |
| Insurance         |        |            | 200.00    |
| Contingency       | 3.00%  | 10,200.00  | 306.00    |
| Fee               | 4.00%  | 10,943.75  | 437.75    |
| Contingency & Fee |        |            | 743.75    |
| Markup total      |        |            | 943.75    |
| Grand total       |        |            | 10,943.75 |

Please note

Markup editDelete

Name \*

Contingency

Type & amount

☒ Percentage

3

%

Entered percentage will be calculated on the current 'Cost Basis' amount.

☐ Flat

☐ Iterative

☐ Compound

Description

Map markup to budget code

84720010129000INT

Calculate on

Select column

Select operator

Value

Благодаря модулю управления затратами BIM 360 дает строительным бригадам возможность эффективно управлять всей деятельностью, связанной с затратами

# BIM 360 Cost Management

AUTODESK BIM 360

United Construction > Pacific Center Campus

Cost Management

BUDGETCONTRACTCOST ITEMPCORFQRCOOCO

Find

| Contract Code ^ | Contract Name                                  | Supplier     | Type        | Original Budget | Internal Adjs | Approved Owner Changes | Revised Budget | Pending Owner Changes | Projected Budget | Orig Commitment  |
|-----------------|------------------------------------------------|--------------|-------------|-----------------|---------------|------------------------|----------------|-----------------------|------------------|------------------|
|                 |                                                |              |             | 102,632.1...    | 0.00          | 49,050.00              | 102,681.1...   | 23,000.00             | 102,704.1...     | 102,757,844.7... |
| 1812            | Jff Site Storage Yard                          |              | Internal    | 109,995.60      | 0.00          | 0.00                   | 109,995.60     | 0.00                  | 109,995.60       | 109,995.60       |
| 1903            | Health & Safety, PPE etc.                      |              | Internal    | 69,223.90       | 0.00          | 0.00                   | 69,223.90      | 0.00                  | 69,223.90        | 69,223.90        |
| 2111            | ite Clearance                                  |              | Subcontract | 169,954.20      | 0.00          | 0.00                   | 169,954.20     | 0.00                  | 169,954.20       | 169,954.20       |
| 2112            | ire Felling                                    |              | Subcontract | 18,332.60       | 0.00          | 0.00                   | 18,332.60      | 0.00                  | 18,332.60        | 18,332.60        |
| 3131            | xavation                                       |              | Subcontract | 2,506,031...    | 0.00          | 0.00                   | 2,506,031...   | 0.00                  | 2,506,031...     | 2,506,031.59     |
| 3221            | iling                                          |              | Subcontract | 1,037,540...    | 0.00          | 0.00                   | 1,037,540...   | 0.00                  | 1,037,540...     | 1,037,540.56     |
| 4112            | oncrete Substructure and Frame                 | Frame Me Ltd | Subcontract | 10,659.31...    | 0.00          | 29,000.00              | 10,688.31...   | 0.00                  | 10,688.31...     | 10,564,990.00    |
| 4121            | upply only of precast floor units              |              | Subcontract | 1,924,926...    | 0.00          | 0.00                   | 1,924,926...   | 23,000.00             | 1,947,926...     | 1,924,926.67     |
| 4211            | tructural Steel                                |              | Subcontract | 3,584,126...    | 0.00          | 0.00                   | 3,584,126...   | 0.00                  | 3,584,126...     | 3,850,115.00     |
| 4221            | teel Staircases                                |              | Subcontract | 1,314,428...    | 0.00          | 0.00                   | 1,314,428...   | 0.00                  | 1,314,428...     | 1,314,428.81     |
| 4311            | ire Protection                                 |              | Subcontract | 91,663.00       | 0.00          | 0.00                   | 91,663.00      | 0.00                  | 91,663.00        | 91,663.00        |
| 4312            | ire Protection paint to steel columns on cores |              | Subcontract | 54,997.80       | 0.00          | 0.00                   | 54,997.80      | 0.00                  | 54,997.80        | 54,997.80        |
| 5111            | nternal Blockwork walls                        |              | Subcontract | 40,643.37       | 0.00          | 0.00                   | 40,643.37      | 0.00                  | 40,643.37        | 40,643.37        |
| 5311            | nvelope package                                | Cover me Ltd | Subcontract | 10,936.27...    | 0.00          | 9,000.00               | 10,945.27...   | 0.00                  | 10,945.27...     | 10,936,272.20    |
| 5321            | olar Protection                                |              | Subcontract | 5,818,756...    | 0.00          | 0.00                   | 5,818,756...   | 0.00                  | 5,818,756...     | 5,818,756.24     |
| 5331            | atinated Copper Cladding                       |              | Subcontract | 503,746.85      | 0.00          | 0.00                   | 503,746.85     | 0.00                  | 503,746.85       | 503,746.85       |
| 5511            | lat Roof                                       |              | Subcontract | 1,254,837...    | 0.00          | 0.00                   | 1,254,837...   | 0.00                  | 1,254,837...     | 1,254,837.14     |
| 5961            | oller Shutter Doors                            |              | Subcontract | 49,498.02       | 0.00          | 0.00                   | 49,498.02      | 0.00                  | 49,498.02        | 49,498.02        |
| 6211            | lastering & Partitioning                       |              | Subcontract | 1,726,080...    | 0.00          | 0.00                   | 1,726,080...   | 0.00                  | 1,726,080...     | 1,726,080.25     |
| 6231            | nternal Glazed Walls (non Fire rated)          |              | Subcontract | 498,646.72      | 0.00          | 0.00                   | 498,646.72     | 0.00                  | 498,646.72       | 498,646.72       |
| 6261            | aised Access Flooring                          |              | Subcontract | 1,080,355...    | 0.00          | 0.00                   | 1,080,355...   | 0.00                  | 1,080,355...     | 1,080,355.02     |
| 6271            | suspended ceilings                             |              | Subcontract | 479,336.99      | 0.00          | 0.00                   | 479,336.99     | 0.00                  | 479,336.99       | 479,336.99       |
| 6311            | ncubator                                       |              | Subcontract | 294,511.39      | 0.00          | 0.00                   | 294,511.39     | 0.00                  | 294,511.39       | 294,511.39       |
| 6322            | icycle Racks                                   |              | Subcontract | 36,665.20       | 0.00          | 0.00                   | 36,665.20      | 0.00                  | 36,665.20        | 36,665.20        |
| 6331            | rtitioning                                     |              | Subcontract | 1,428,230...    | 0.00          | 0.00                   | 1,428,230...   | 0.00                  | 1,428,230...     | 1,428,230.54     |

Multiple

DETAIL

Contract Code4112StatusSelect...

NameConcrete Substructure and Frame

Description

Budget Code2 selected

SCOPE OF WORK

FINANCIAL

Award Amount10,564,990.00Changes0.00

Total10,564,990.00Retention0%

SUPPLIER DETAILS

NameFrame Me Ltd

ContactFreddy Frame

DOCUMENT BY RECIPIENT

There is no available documents.

Generate...

APPROVAL

Created ByIan Turner

Changed ByJohn Sanner

Как управлять затратами в рабочий процесс, чтобы  
не визуализировать риски, связанные с затратами,  
живая и отслеживая статьи бюджета

# BIM 360 Cost Management

The screenshot displays the Autodesk BIM 360 Cost Management web application. The top navigation bar includes the Autodesk BIM 360 logo, the project name 'United Construction - Pacific Center Campus', and the 'Cost Management' section. The left sidebar shows a tree view of cost items, with '0-0002' selected. The main content area displays a detailed change order table for 'RCO R-0002, R-0001'. The table lists changes with columns for Number, Name, Budget Code, and Amount. A 'Protected View' warning is visible at the top of the table area. The bottom of the interface shows a summary table with columns for Created By, Purchased By, Changed By, and Signed By.

| Number     | Name                                            | Budget Code       | Amount      |
|------------|-------------------------------------------------|-------------------|-------------|
| PCO-P-0005 | Additional Floor Openings as per RF1005         |                   | \$25,417.40 |
| 1          | Frame - Additional Floor Openings as per RF1005 | 84720010330001SUB | \$23,000.00 |
| 2          | Insurance                                       | 84720010121001FEE | \$473.80    |
| 3          | Contingency                                     | 84720010129000INT | \$690.00    |
| 4          | Bond                                            |                   | \$236.90    |
| 5          | Fee                                             | 84720010129001INT | \$1,016.70  |
| PCO-P-0006 | Revised Signage                                 |                   | \$11,050.00 |
| 1          | Revised Signage                                 | 84720011014000GEN | \$11,050.00 |
| PCO-P-0007 | Revised Main Entrance Layout per ASI002         |                   | \$16,576.56 |
| 1          | Frame - Revised Main Entrance Layout per ASI002 | 84720010330001SUB | \$6,000.00  |
| 2          | Doors - Revised Main Entrance Layout per ASI002 | 84720010722000SUB | \$9,000.00  |
| 3          | Contingency                                     | 84720010129000INT | \$450.00    |
| 4          | Insurance                                       | 84720010121001FEE | \$309.00    |
| 5          | Bond                                            |                   | \$154.50    |
| 6          | Fee                                             | 84720010129001INT | \$663.06    |

Page 1 of 8 1132 words

| Created By | Purchased By | Changed By  | Signed By |
|------------|--------------|-------------|-----------|
| Ian Turner | Ian Turner   | John Sanner | Select... |

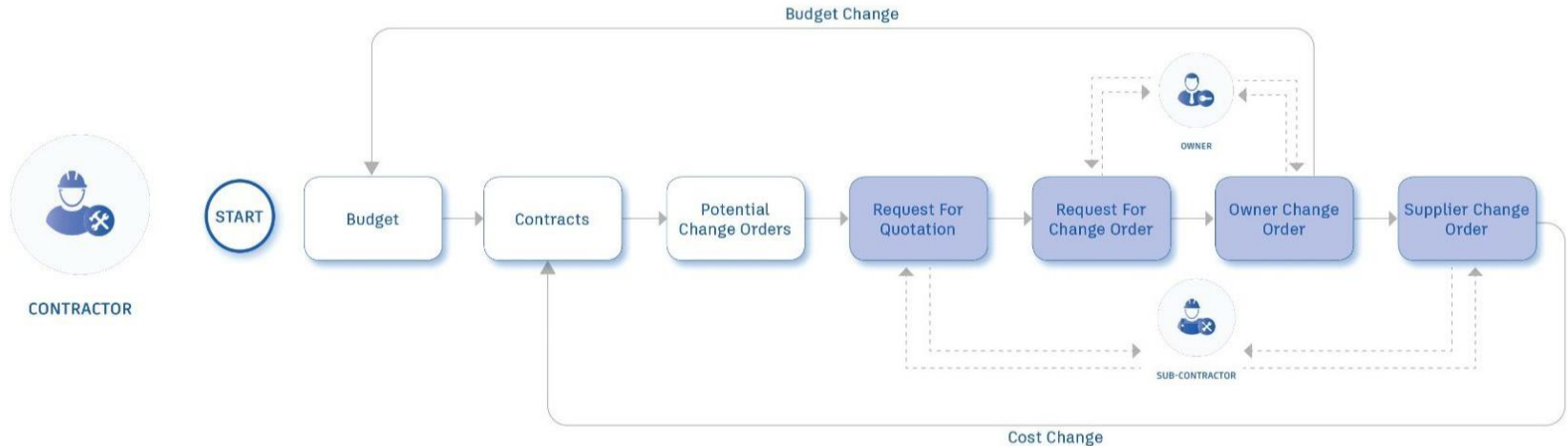
Управление затратами рационализирует рабочие процессы заказов на изменения в восходящем и нисходящем направлениях, создавая четкую ответственность

# BIM 360 Cost Management

## BIM 360 capabilities used

- Budget management
- Contract management
- Change order management

### Cost Management Workflow





# BUILDING TOGETHER



Track project issues and make more informed decisions with access to specifications and documents from BIM 360 directly in your Assemble model.

LEARN MORE

# Assemble Systems Opportunity

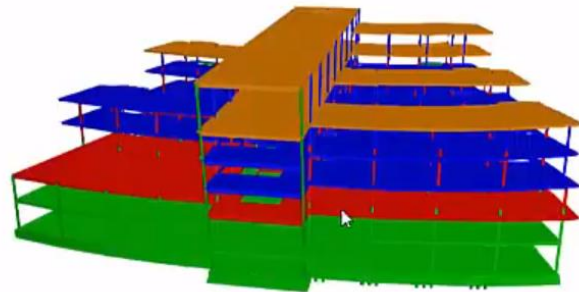
Autodesk Hospital

Construction Status

Show Changes

Shared

| Group by: Project Progress ▾                                                             | Columns  | \$ Estimate | Import/Export ▾  |
|------------------------------------------------------------------------------------------|----------|-------------|------------------|
| <input type="checkbox"/> Name                                                            | Quantity | Unit        | Model Name       |
| <input type="checkbox"/> <span style="color: red;">●</span> ▾ In Progress                |          |             | Structure Fra... |
| <input type="checkbox"/> <span style="color: red;">●</span> ▶ To be Completed on 4/23    | 255.81   | TON         | Structure Fra... |
| <input type="checkbox"/> <span style="color: red;">●</span> ▶ To be Completed on 4/25    |          |             | Structure Fra... |
| <input type="checkbox"/> <span style="color: orange;">●</span> ▾ In Transit              |          |             | Structure Fra... |
| <input type="checkbox"/> <span style="color: orange;">●</span> ▶ To be Delivered on 5/1  | 245.76   | TON         | Structure Fra... |
| <input type="checkbox"/> <span style="color: orange;">●</span> ▶ To be Delivered on 5/10 | 1,018.50 | CY          | Structure Fra... |
| <input type="checkbox"/> <span style="color: green;">●</span> ▾ Installed                |          |             | Structure Fra... |
| <input type="checkbox"/> <span style="color: green;">●</span> ▶ Out For Review           |          |             | Structure Fra... |
| <input type="checkbox"/> <span style="color: green;">●</span> ▶ Review Complete          |          |             | Structure Fra... |
| <input type="checkbox"/> <span style="color: blue;">●</span> ▾ On Site                   |          |             | Structure Fra... |
| <input type="checkbox"/> <span style="color: blue;">●</span> ▶ Progress to Begin on 4/27 | 308.34   | TON         | Structure Fra... |
| <input type="checkbox"/> <span style="color: blue;">●</span> ▶ Progress to Begin on 5/1  | 78.96    | TON         | Structure Fra... |
| <input type="checkbox"/> <span style="color: blue;">●</span> ▶ Progress to Begin on 5/5  | 1,271.83 | CY          | Structure Fra... |



<https://youtu.be/oidDZJAAydQ>

