
CHAPTER 7 REVISING THE ESTIMATE

Changing the Project Summary

1. After initial system logon and role selection within AASHTOWare Project Preconstruction, select the **Projects** hyperlink from your dashboard (*Figure 1*).

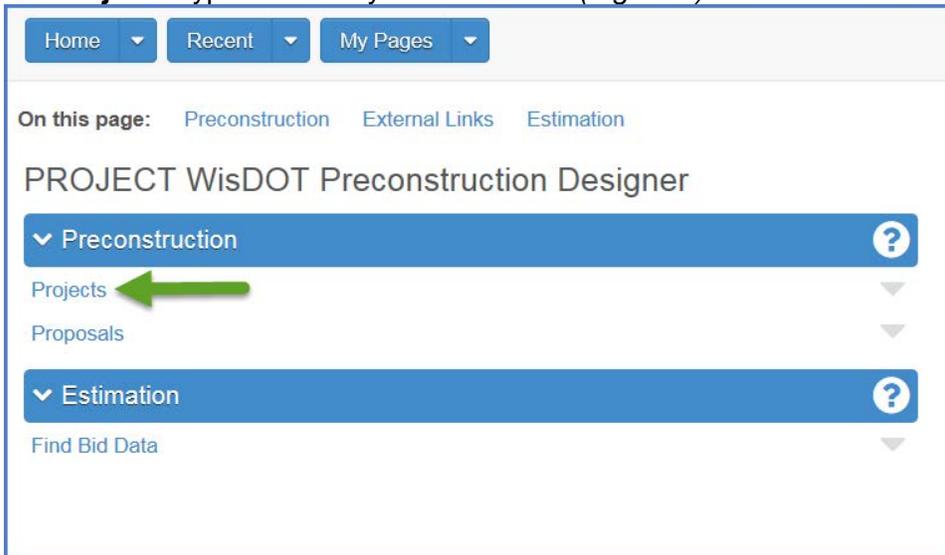


Figure 1

2. Search for and select your project (*Figure 2*).
See *Chapter 2 – AASHTOWare Project Introduction and Navigation* for details)

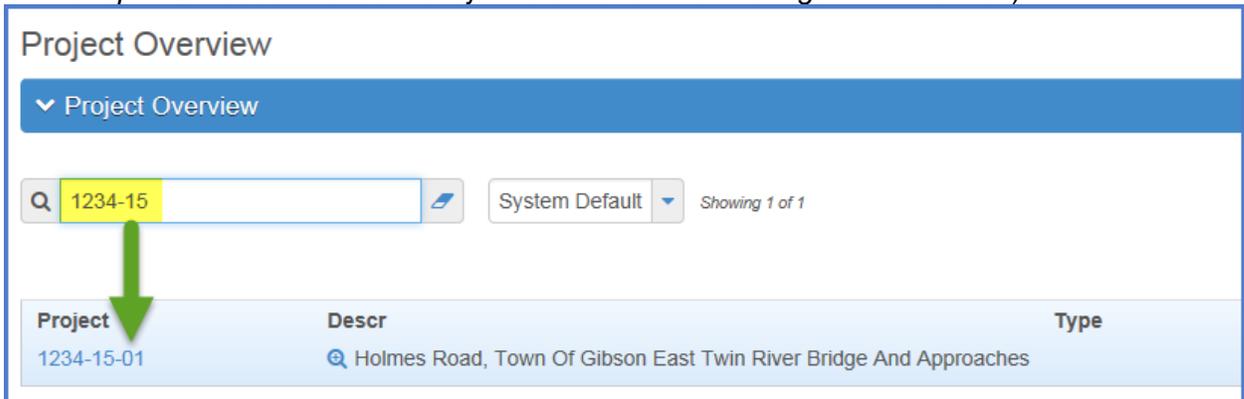


Figure 2

3. The Project Summary component will appear (Figure 3).
 - a. The project opens up in the **General** tab. Make any necessary changes and additions. See the Project Summary Data Fields and Category Data Fields tables at the end of this chapter for guidance on how to fill in the required data fields. Please confirm the data entered is correct and matches the project information the Financial Integrated Improvement Programming System (FIIPS). Contact your Project Manager for details.
 - b. Click **<Save>**.

NOTE:

- The **Designer Region Office** and **Construction Region Office** fields should match the information found in the Plan Letter. See FDM 19-10-15 for more details.

Project Summary

▼ Project: 1234-15-01 - Holmes Road, Town Of Gibson East Twin River Bridge And Approaches
Save ▼ ?

Proposal:

<div style="background-color: #f0f0f0; padding: 5px; border: 1px solid #ccc;"> <p>General</p> <p>Counties</p> <p>Regions</p> <p>Points</p> <p>Road Segments</p> <p>Structure Segments</p> <p>Workflow</p> </div>	<p>Project ID 1234-15-01</p> <p>Federal Project Number <input type="text" value="WISC 2015639"/></p> <p>Project Description * <input type="text" value="Holmes Road, Town Of Gibson East Twin River Bridge And Approaches"/></p> <p>Controlling Project <input checked="" type="checkbox"/></p> <p>Project Item Total 645,804.00</p> <p>Spec Book * <input type="text" value="03"/></p> <p>Unit System * <input type="text" value="English"/></p> <p>Project Type <input type="text" value="LET - Let Contract"/></p> <p>Project Status <input type="text" value="PSE - PSE Sent To Central Office"/></p> <p>Project Work Type <input type="text" value="STRC - Structures"/></p> <p>Urban/Rural <input type="text" value="R - Rural"/></p> <p>E & C Percent <input type="text" value="15.00"/></p>	<p>Primary Project County ID C036 - Manitowoc</p> <p>Primary Project Region ID NE - Northeast</p> <p>Estimate Date <input type="text" value="09/15/2016"/></p> <p>Design Region Office <input type="text" value="GRE - Green Bay"/></p> <p>Vendor Access <input type="text" value="Begin typing to search or press Enter"/></p> <p>Div/Bur <input type="text"/></p> <p>Authorized Date <input type="text"/></p> <p>Anticipated Let Date <input type="text"/></p> <p>Project Code Trim <input type="text"/></p> <p>Project Code <input type="text"/></p> <p>Construction Region Office <input type="text" value="GRE - Northeast Region Green Bay Office"/></p> <p>Last Updated By TestEDIR\czemaxy\ltest</p> <p>Last Updated Date 10/14/2016 17:15:17</p>
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Figure 3



WisDOT Workflow – Project Definition Phase

Designers need to check and ensure the project is set to the correct WisDOT Workflow Phase (*Figure 4*) as soon as they begin working on a project in AASHTOWare Preconstruction. This is done to control project access and for reporting purposes.

1. Select the **Workflow** tab (*Figure 4*).
2. Select the Workflow and Workflow Phase:
Workflow
WisDOT Workflow for Preconstruction and Construction

Workflow Phase

Project Definition: Project/categories/funding created in FIIPS. LET prjs imported from FIIPS. Non-LET prjs (LFA, PBM, EM) entered into Precon. Designer creates/imports/updates estimate, associates project, creates "C" proposal and place in PSE phase.

3. Click **<Save>**.

Project Summary

▼ Project: 1234-15-01 - Holmes Road, Town Of Gibson East Twin River Bridge And Approaches Save ?

Proposal: C1234-15-01

General

Counties

Regions

Points

Road Segments

Structure Segments

Workflow

Workflow

WisDOT Workflow for Preconstruction and Construction

WorkflowPhase

Project Definition: Project/categories/funding created in FIIPS. LET prjs imported from FIIPS. Non-LET prjs (LFA, PBM, EM) entered into Precon. Des

Figure 4



Adding or Editing Counties

Designers must enter information about the county(s) in which the work is to be performed.

1. Select the **Counties** tab to add, edit, or delete counties within the project limits (*Figure 5*). The county(s) entered in FIIPS appears on the **General** tab.
2. To edit an existing county, select the field you wish to change including County ID, Pct or Primary fields.
3. To add an additional county, click **<New>**.
 - a. In the **County ID** field, begin typing the county name or the 4 digit county code (e.g. Manitowoc or C036) and the county will appear. Select the county.
 - b. In the **Pct** field, enter the percentage of project length for this county.
 - c. Check the **Primary** checkbox if this is the primary OR only county for this project.
 - d. Click **<Save>**.
4. To delete a county, click the row **action arrow** on the right side and select **Delete**. The county is marked for deletion and designers may “undo” the action until the component is saved.

NOTE: The sum of the county percentages on a project should always equal 100%. Therefore, if designers add or delete counties, adjust the values in the county percentage fields so that the sum remains 100%.

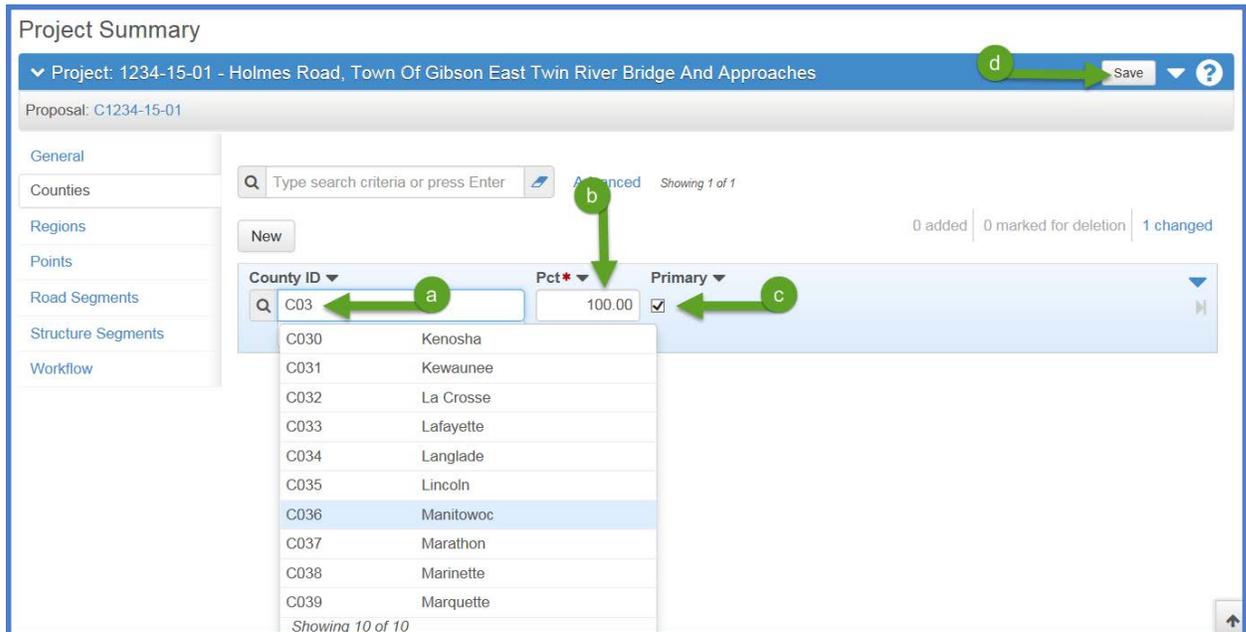


Figure 5



Adding or Editing Regions

Designers must enter information about the region(s) in which the work is to be performed.

1. Select the **Regions** tab to add, edit, or delete regions associated with this project (*Figure 6*). The region is not entered in FIIPS and must be entered in either Estimator or AASHTOWare Project Preconstruction. The field appears on the **General** tab in Estimator.
2. To edit a region entry, select the field you wish to change (Region ID or Primary Region)
3. To add an additional region, click **<New>**.
 - a. In the **Region ID** field, begin typing the region prefix (e.g. NC, NEL, SW, etc.) and the region list will appear. Select the region.
 - b. Check the **Primary** checkbox if this is the primary OR only region associated with this project.
 - c. Click **<Save>**.
4. To delete a region, click on the row **action arrow** on the right side and select **Delete**. The region is marked for deletion and designers may “undo” the action until the component is saved.

The screenshot displays the 'Regions' management interface. At the top, there is a 'Project Summary' bar with a dropdown menu showing 'Project: 1234-15-01 - Holmes Road, Town Of Gibson East Twin River Bridge And Approaches' and a 'Save' button with a green arrow labeled 'c'. Below this is a search bar with the text 'Type search criteria or press Enter' and a 'New' button. The main area shows a table with columns for 'Region ID' and 'Primary...'. A search for 'N' is active, and a dropdown list of regions is shown: CO (Central Office), NC (North Central), NCL (North Central Local Program), NE (Northeast), NEL (Northeast Local Program), NW (Northwest), and NWL (Northwest Local Program). A green arrow labeled 'a' points to the search input field, and a green arrow labeled 'b' points to the 'Primary' checkbox. The status bar at the bottom indicates 'Showing 7 of 7'.

Figure 6



Adding or Editing Points on a Project

A project point is a location that can be described by a single latitude and longitude measurement. A point can be used to locate a specific site for project work or the site for a portion of the project's work.

1. Select the **Points** tab to edit the latitude and longitude of the Midpoint of the project or to add a BeginPoint or EndPoint to the project (Figure 7).
2. To edit an existing point including the Midpoint.
 - a. In the **Type** drop down list, leave **Midpoint** as the selection (Figure 7).
 - b. Click **<Get Lat/Long>** (Figure 7).
 - c. iTouchMap will open in a browser window. Enter the address or approximate location. Click **<Go>** (Figure 8).
 - d. Copy the **Latitude** and **Longitude** values to the associated fields on the Points tab (Figure 7 and 9). It is not necessary to enter the negative value for Longitude.
 - e. Update **Description** of the Point Type if necessary (Figure 7).
 - f. Click **<Save>** (Figure 7).
3. To add an additional point, click **<New>**.
 - a. In the **Type** drop down list, select **BeginPoint** or **EndPoint** (Figure 7).
 - b. Click **<Get Lat/Long>** (Figure 7).
 - c. iTouchMap will open in a browser window. Enter the address or approximate location. Click **<Go>** (Figure 8).
 - d. Copy the **Latitude** and **Longitude** values to the associated fields on the Points tab (Figure 7 and 9).
 - e. Update **Description of the Point Type** if necessary (Figure 7).
 - f. Click **<Save>** (Figure 7).
4. To delete a point, click on the **row action** arrow on the right side and select **Delete**. The point is marked for deletion and designers may “undo” the action until the component is saved.

Project Summary

Project: 1234-15-01 - Holmes Road, Town Of Gibson East Twin River Bridge And Approac... Save

Proposal: C1234-15-01

General

Counties

Regions

Points

Road Segments

Structure Segments

Workflow

Search: Type search criteria or press Enter Advanced Showing 1 of 1

New 0 added | 0 marked for deletion | 0 changed

Type	Description	Latitude	Longitude
Midpoint	Midpoint	45:05:00.00	90:20:00.00

Get Lat/Long

Figure 7



iTouchMap.com
Mobile and Desktop Maps

Maps | Country - State | Places | Cities | Lat - Long

Home » Latitude and Longitude of a Point

To find the latitude and longitude of a point **Click** on the map, **Drag** the marker, or enter the...

Address: 4802 Sheboygan Avenue, Madison WI

[Nearby Places of Interest](#) [Map Utilities: Measure Size, Get Address, Street View, Larger Map](#)

Latitude and Longitude of a Point

Figure 8

Get the Latitude and Longitude of a Point

When you click on the map, move the marker or enter an address the latitude and longitude coordinates of the point are inserted in the boxes below.

Latitude:

Longitude:

	Degrees	Minutes	Seconds
Latitude:	<input type="text" value="43"/>	<input type="text" value="4"/>	<input type="text" value="24.33"/>
Longitude:	<input type="text" value="-89"/>	<input type="text" value="27"/>	<input type="text" value="34.3326"/>

Figure 9

NOTES:

- A project Midpoint is required by the AASHTOWare Project Preconstruction system.
- WisDOT does not require the creation of a BeginPoint and EndPoint for a project to record the latitude or longitude; however, if the information is available it may be useful for future reference.



Categories

Categories are used to group items based on the type of work to be done on the project. After creating and updating categories, designers will assign categories to road and/or structure segments.

1. Select the **Categories and Items** quick link the top of the screen to add, edit, copy or delete categories. Select the **Categories** tab. Categories assigned to the project in Estimator will appear. Staff can create a new category, edit an existing category, copy an existing category, or delete an existing category.
2. To edit an existing category, click the **expand arrow** on the left side of the category to edit the category's detail.
 - a. Complete the required fields using the Category Data Fields table at the end of this chapter for guidance. Click **<Save>** when complete (*Figure 10*).
3. To create a new category, click **<New>**.
 - a. Complete the required fields using the Category Data Fields table at the end of this chapter for guidance. Click **<Save>** when complete (*Figure 10*).

The screenshot displays the 'Project Category and Item Summary' interface. At the top, there are navigation tabs: Home, Recent, and My Pages. Below these are utility buttons for Actions, Help, and Log off. The main navigation bar includes Overview, Fund Package Overview, Funding: Assign to Items, Item Alternate Summary, Item Pricing, Project, and Item Worksheet. The current project is identified as 'Project: 1234-15-01 - Holmes Road, Town Of Gibson East Twin River Bridge And Approaches'. A 'Save' button is located in the top right corner of the project header, marked with a green circle and the number 6.

The left sidebar contains a 'General' section with several tabs: Categories (1), Category Alternate Sets, Item Alternate Sets, and Items. The 'Categories' tab is selected. In the main content area, there is a search bar and a 'New' button (3). Below this is a list of categories. The first category, '0010 - Roadway Items', is selected and expanded, indicated by a green arrow (2) pointing to the expand arrow on the left. The 'Actions' menu for this category is open, showing options like Copy (4) and Delete (5). The 'Category ID' field is set to '0010'. Other fields include 'Combine Like Categories' (checked), 'Section Group', 'E & C Percent', 'Low Cost Flag' (Yes), 'Unit Number', and 'Unit Description'. The right side of the form contains several dropdown menus for 'Category Alternate', 'Life Cycle Cost', 'Category Work Class', 'Federal Work Category', and 'Federal Construction Class'. At the bottom of the category list, the next category '0020 - Structure Items' is visible.

Figure 10



4. To copy a category, expand the category, click the **component action** arrow on the right side, and select **Copy** to open the Copy Category component (*Figure 11*).
 - a. **Project ID** - To copy the category to another project, enter the destination project's ID.
 - b. **Category ID** - To make a copy of the category within the same project, enter a new Category ID. If copying to a different project, a different category ID may be entered.
 - c. When copying the category to another project, designers have the ability to decide what to copy. Select the appropriate checkboxes for the data to be copied including **Copy Fund Packages**, **Copy Alternate Sets**, or **Copy Locations**.
 - d. Select **<Copy Category to Project>**. Expand the new category to edit required fields.

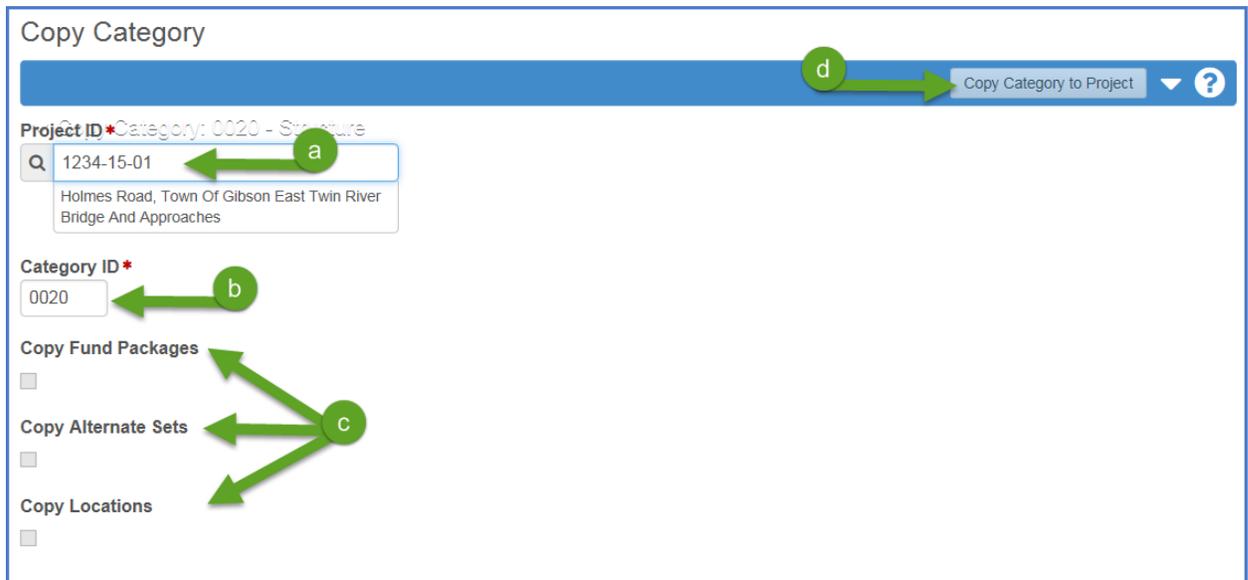


Figure 11

5. To delete a category, click the **component action** arrow on the right side and select **Delete**. Click **<Save>** to confirm the category deletion.

NOTES:

- When you copy a category within the same project, all the information in the source category is copied to the new category with the following exceptions:
 - The Low Cost Flag field values are calculated by the system after the copy is made.
 - Project Item Line Number field values in the copied category may not match the source values, but will be determined by the order of insertion into the project.
- When you copy a category to another project, all the information in the source category is copied to the new category with the following exceptions:
 - The Low Cost Flag field values are calculated by the system after the copy is made.
 - Project Item Line Number AND Project Item ID field values in the copied category may not match the source project's values, but will be determined by the order of insertion into the destination project.
- A category cannot be deleted if there are associated items. Delete the items first and then delete the category.
- Federal Work Category descriptions are listed in a table at the end of this chapter.

Adding or Editing Road Segments on a Project

A road segment is a portion of a road that is described by the name, type, highway number and associated to a category. A road segment is required for every category that is not a structure category. Structure segments are described in the next section of this chapter.

1. Select the **Road Segments** tab to add or edit a road segment for the project.
2. To edit an existing road segment, expand the row and select the field(s) you wish to change.
3. To add an additional road segment, click **<New>**. Road segments may be created to identify segments between intersections and side roads (*Figure 12*).

Project Summary

Project: 1234-15-01 - Holmes Road, Town Of Gibson East Twin River Bridge And Approaches

Proposal:

General

Counties

Regions

Points

Road Segments

Structure Segments

Workflow

Q Type search criteria or press Enter Advanced Showing 1 of 1

0 added | 0 marked for deletion | 0 changed

New

0010 Roadway TOWN - Town Road
Holmes Rd. Town

Name 0010 Roadway

Highway Number Town

Description Holmes Rd.

Type TOWN - Town Road

Route

Lane Mile

Length (miles) 0.7500

Width (feet) 45.0000

Depth

Start Latitude

Start Longitude

End Latitude

End Longitude

Begin Station 10+00

End Station 25+75

Category ID 0010 - Roadway

Save

Figure 12

- a. **Name** – enter the description for the category this road segment is part of.
- b. **Highway Number** – enter the highway name or number (e.g. 10 for USH 10, B for CTH B, 41 for IH 41, Town for Town Road, etc.)
- c. **Description** – enter the highway/roadway name and number/letter.
- d. Select a **Type** from the dropdown list of highway types.
- e. **Length** – enter the length of the road segment in miles.
- f. **Width** – enter the width of the road segment in feet.
- g. Enter the **Begin Station** and **End Station** for the road segment. In addition, designers may enter the start and end latitude and longitude points. Use iTouchMap,
- h. Select the **Category ID** from the dropdown list of project categories.
- i. Click **<Save>**.

Adding or Editing Structure Segments on a Project

A structure segment is a portion of a bridge, culvert, or other structure identified by a structure ID that can be described by a set of starting and ending latitude and longitude measurements. A structure segment can be used to locate a specific section of a structure as the site for a project's work or a portion of the project's work. It can also refer to an entire bridge or culvert. A structure segment is required for every category that is not a road segment category. Road segments are described in the previous section of this chapter.

1. Select the **Structure Segments** tab to add or edit a bridge or culvert for the project.
2. To add an additional structure segment, click **<New>**. Structure segments may be created to identify sections of a bridge or culvert or an entire bridge or culvert (*Figure 13*).
3. To edit an existing structure segment, expand the row and select the field(s) you wish to change following the guidance provided on the next page (*Figure 13 and 14*).

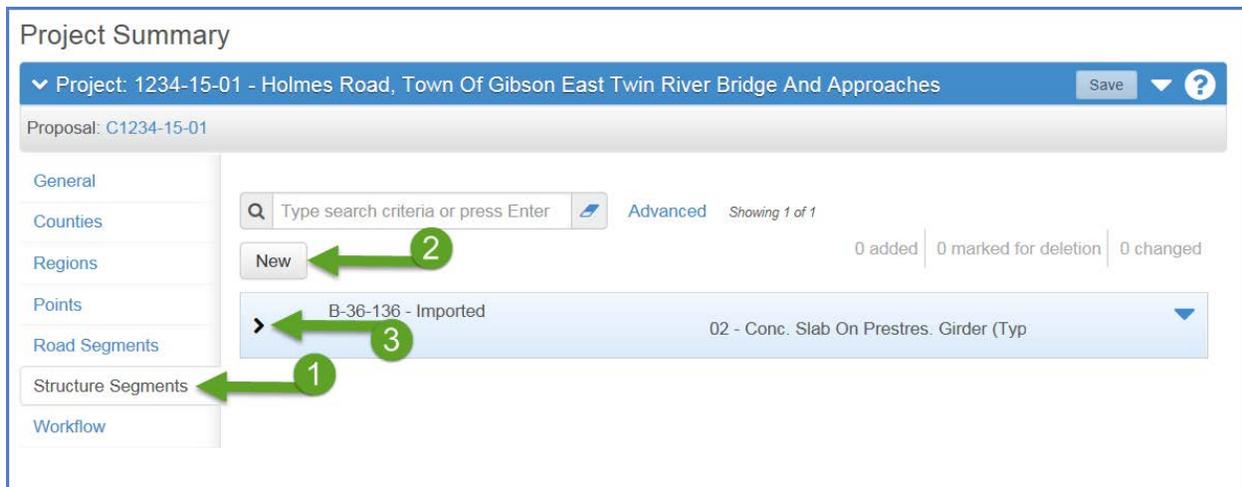


Figure 13

Project Summary

Project: 1234-15-01 - Holmes Road, Town Of Gibson East Twin River Bridge And Approaches Save ?

Proposal:

General
Counties
Regions
Points
Road Segments
Structure Segments
Workflow

Search: Type search criteria or press Enter Advanced Showing 1 of 1

New 0 added | 0 marked for deletion | 0 changed

B-36-0136 - Holmes Road Structure 02 - Conc. Slab On Prestres. Girder (Type)

Bridge ID* Start Latitude

Description* Start Longitude

Bridge Type End Latitude

Length (feet) End Longitude

Width (feet) Category ID

Number of Spans

Figure 14

- a. **Bridge ID** – enter the proposed structure ID.
Example: B-23-0136 or C-17-0029
- b. **Description** – enter the description of the category that this bridge or culvert is part of.
NOTE: If the description field displays “Imported”, the project was imported from AASHTOWare Project PES. Update this field to reflect the category description.
- c. Select the **Bridge Type** from the drop-down list.
- d. **Length (feet)** – enter the length in feet only for the structure, not the approach. Length is defined as end of deck to end of deck as shown on the structure plan, top edge of paving notch to top edge of paving notch, or outside to outside of box culvert on the roadway reference line.
NOTE: IT IS VERY IMPORTANT TO ENTER THE CORRECT UNIT OF MEASURE.
- e. **Width (feet)** – enter the width in feet only for the structure, not the approach. Width is defined as the clear width as shown on the structure plan.
NOTE: IT IS VERY IMPORTANT TO ENTER THE CORRECT UNIT OF MEASURE.
- f. **Number of Spans** – enter number of spans for a bridge or number of cells for a box culvert.
- g. Select the **Category ID** from the dropdown list of project categories.
- h. Start / End Latitude and Start / End Longitude - Designers may enter the latitude and longitude values found when searching for the project on iTouchMap, Google Maps or similar mapping tool. Enter the latitude and longitude using the format DDMSS (ie. 431534)
- i. Click **<Save>**.



Items

Items are added and associated with a category based on the type of work to be done on the project. Items can be added to a project in several different ways. They can also be edited, copied or deleted under the Item Component tab.

To Edit, Copy or Delete Items:

1. Select the **Categories and Items** quick link near the top of the screen to add, edit or delete items. Select the **Items** component tab. Items entered previously in Estimator will appear.
2. To edit an existing item:
 - a. Click the **expand arrow** on the left side of the item to view the item's detail. (Figures 15 and 16). Refer to the Item Fields table at the end of this chapter for guidance on how to fill in the required data fields. Required fields include Item ID, Quantity, Project Item Unit Price, Category ID and possibly the Project Item Supplemental Description.
 - b. Click **<Save>**.



Figure 15

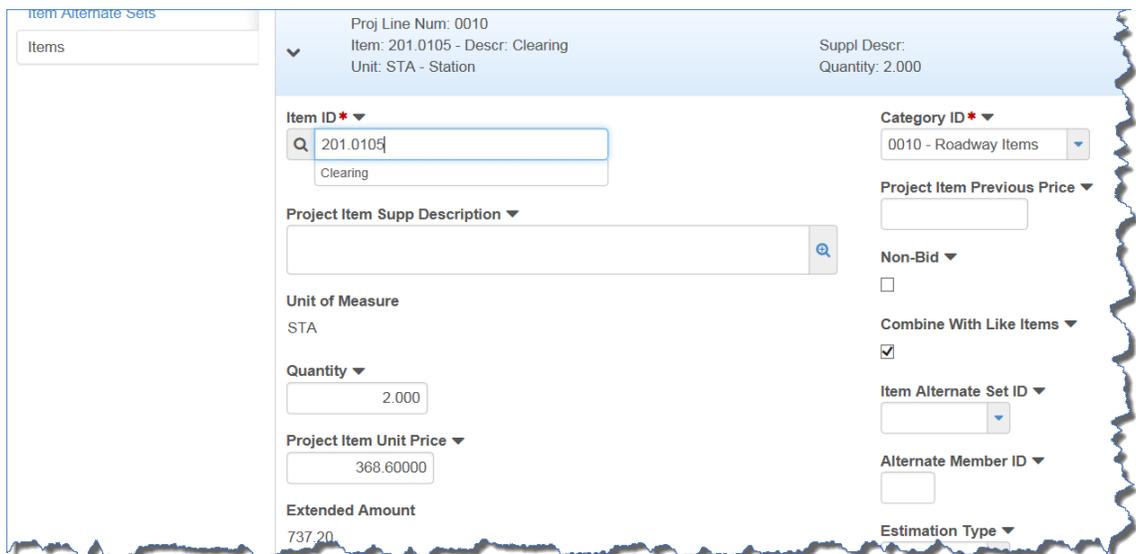


Figure 16



3. To Copy (Duplicate) an Item: (Figure 17)
 - a. Click the **Item Action arrow** on the right side of the item.
 - b. Select **Duplicate Row**.
 - c. A copy of the item will be created and expanded. Refer to the Item Fields table at the end of this chapter for guidance on how to fill in the required data fields. Required fields include Item ID, Quantity, Project Item Unit Price, Category ID and possibly the Project Item Supplemental Description.
 - d. Click **<Save>**.

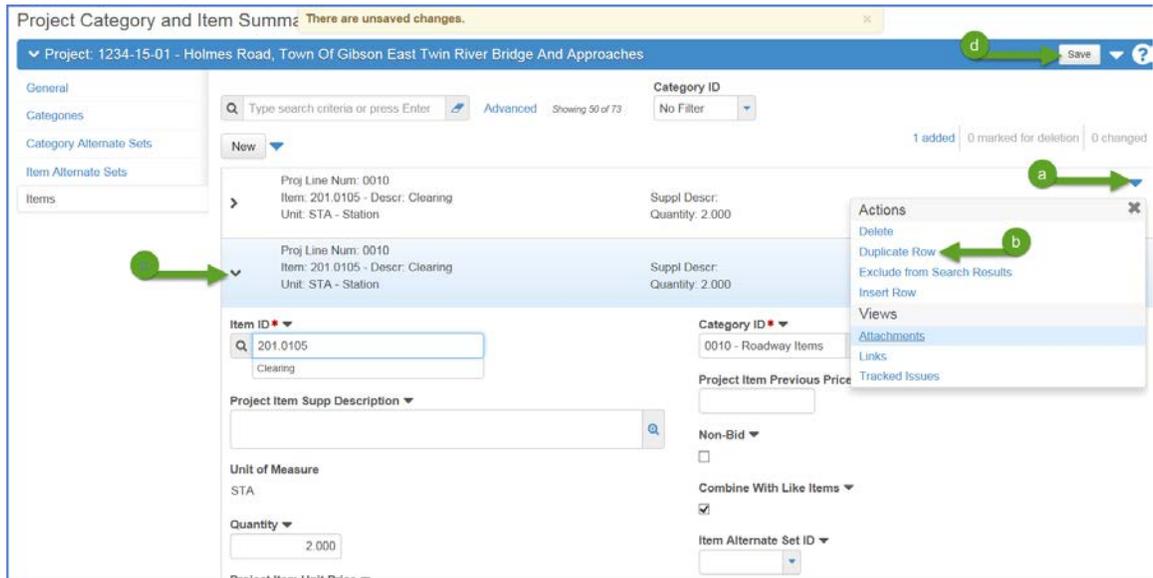


Figure 17

4. To Delete an Item: (Figure 18)
 - a. Click the **Item Action arrow** on the right side of the item.
 - b. Select **Delete**. The item will be marked for removal from the project.
 - c. Click **<Save>** to confirm this.

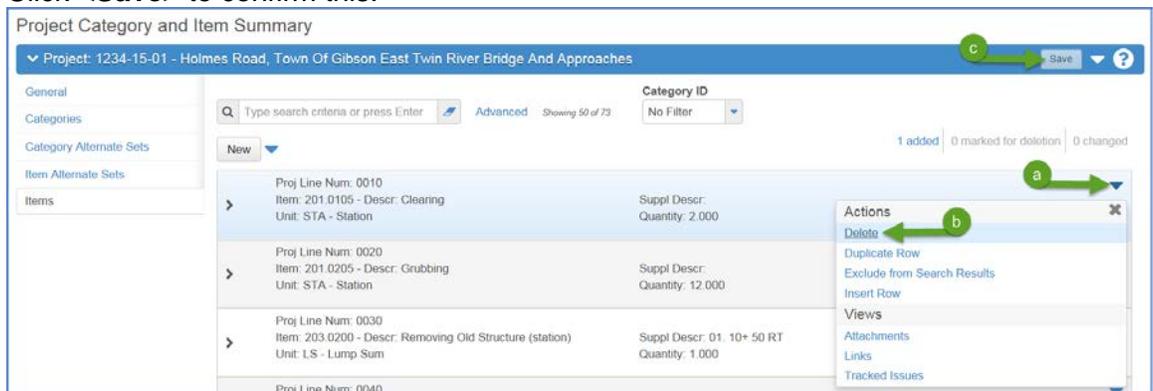


Figure 18



Items Component tab – Add new item

1. At the top of the Item list, click **<New>** (Figure 19).
2. At the bottom of the component window, an expanded row will open titled “New Project Item”. Refer to the Item Fields table at the end of this chapter for guidance on how to fill in the required data fields. Required fields include Item ID, Quantity, Project Item Unit Price, Category ID and possibly the Project Item Supplemental Description (Figure 20).
3. Click **<Save>**.

NOTES:

- Use the **<Back to Top>** scroll button to return to the top of the page quickly.
- Once the items are saved, they will be reordered by item ID and supplemental description within each category. Items are automatically renumbered when additions are made and saved.

Project Category and Item Summary

Project: 1234-15-01 - Holmes Road, Town Of Gibson East Twin River Bridge And Approaches

Save

General

Categories

Category Alternate Sets

Item Alternate Sets

Items

Type search criteria or press Enter

Advanced Showing 50 of 73

Category ID No Filter

0 added 0 marked for deletion 0 changed

New

Proj Line Num: 0010

Item: 201.0105 - Descr: Clearing

Unit: STA - Station

Suppl Descr: Quantity: 2,000

Proj Line Num: 0020

Figure 19

New Project Item

Item ID*

Category ID*

Project Item Supp Description

Project Item Previous Price

Unit of Measure

Non-Bid

Quantity

Combine With Like Items

Project Item Unit Price

Item Alternate Set ID

Extended Amount

Alternate Member ID

Price Lock Flag

Estimation Type

Low Cost Flag

Major Item

Figure 20

Items Component tab – Quick Add Items

1. At the top of the Item list, click on the **Item Action arrow** (Figure 21).
2. Select **Quick Add Items** from the action list (Figure 21).

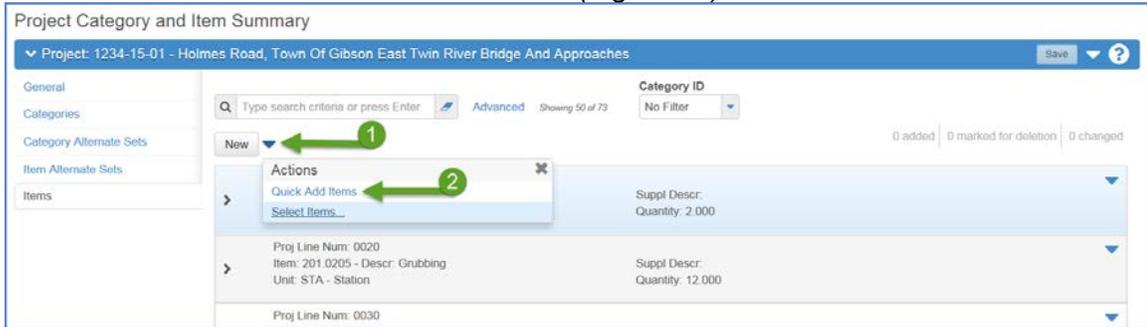


Figure 21

3. Refer to the Item Fields table at the end of this chapter for guidance on how to fill in the required data fields that appear on this screen (Figure 22). Here is some helpful information:
 - a. **Cat ID** – Select a category from the drop down list.
 - b. **Item** – Select an item from the drop down list.
 - c. **Quantity** – Item quantity
 - d. **Price** – Item price
 - e. **Suppl Descr** – Enter a supplemental description if required.
4. Tab or click **<New>** to add additional items and complete the fields following the instructions noted above.
5. Click **<Save>** at the top of Add Project Items component when complete.

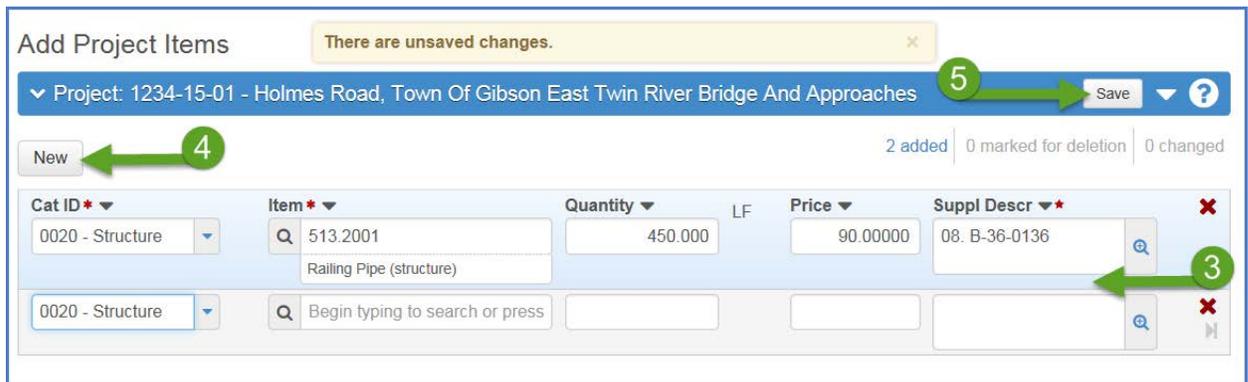


Figure 22

NOTE:

- Once the items are saved, they will be reordered by item ID and supplemental description within each category. Items are automatically renumbered when additions are made and saved.



Items Component tab – Select Items...

1. At the top of the Item list, click on the **Item Action** arrow (Figure 23).
2. Select **Select Items** from the action list (Figure 23).

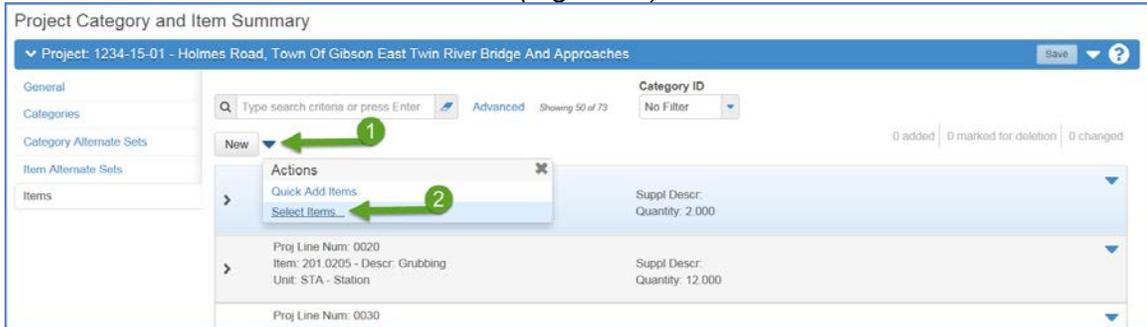


Figure 23

3. Select the **Category ID** from the drop down list (Figure 24).
4. Search for specific items by item ID or item description or show the first 10 items. Depending upon the search criteria, more items can be displayed by clicking **<Load next 50>** at the bottom of the screen (Figure 24).
5. Select 1 or more items to associate to the chosen category for this project by clicking in front of the item number. Items to be added will be noted with a green checkmark.
NOTE: Multiple searches with multiple selections can be made. The system will keep track of all selected items (Figure 24).
6. Click **<Add to Project>** to add these items (Figure 24).

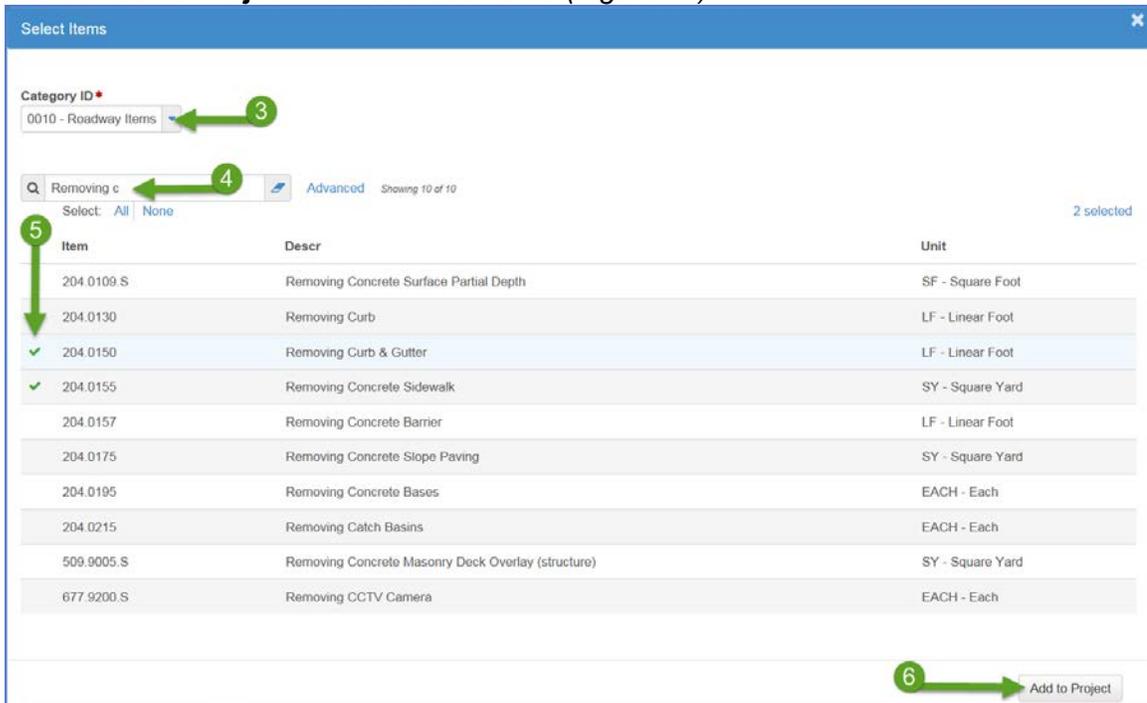


Figure 24



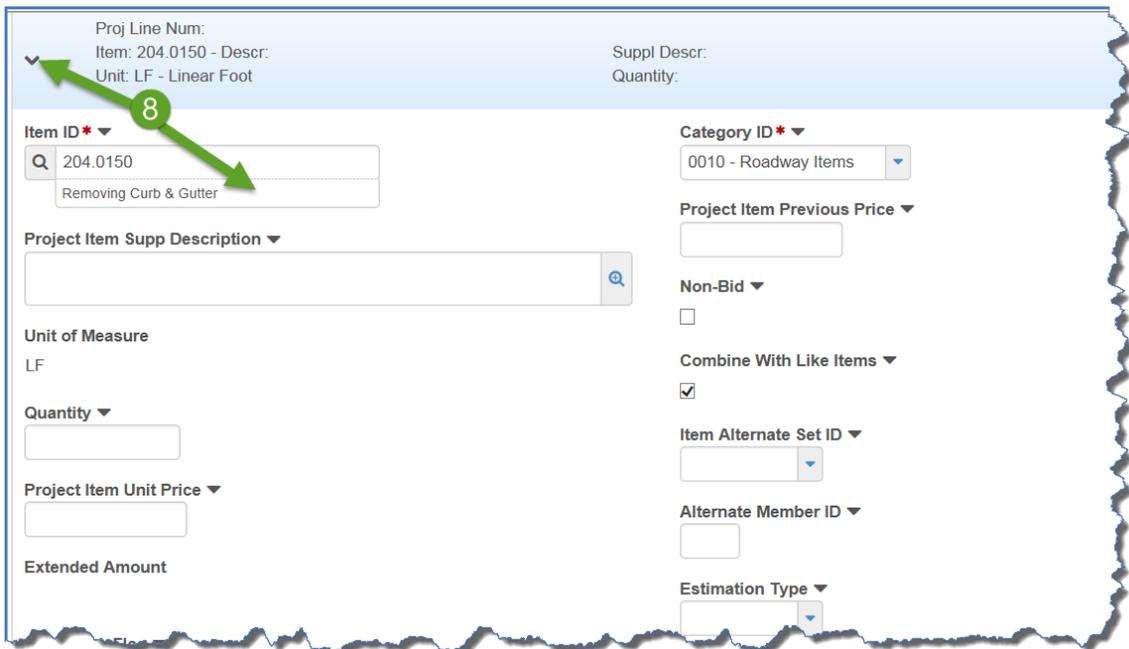
7. The new items will appear at the bottom of the item list screen (*Figure 25*).



The screenshot shows a list of items in a software interface. At the bottom, two new items are visible, each with a red 'X' icon in the top right corner. The first item has a 'Proj Line Num:' of 204.0150, a description of 'Removing Curb & Gutter', and a unit of 'LF - Linear Foot'. The second item has a 'Proj Line Num:' of 204.0155, a description of 'Removing Concrete Sidewalk', and a unit of 'SY - Square Yard'. Both items have empty fields for 'Suppl Descr:' and 'Quantity:'.

Figure 25

8. Expand the item by clicking **Left Action arrow** (*Figure 26*). Refer to the Item Fields table at the end of this chapter for guidance on how to fill in the required data fields. Repeat for each new item.



The screenshot shows the expanded form for the item 'Removing Curb & Gutter'. A green arrow with the number '8' points to a checkmark icon in the top left corner of the form. The form contains the following fields: 'Item ID *' (204.0150), 'Category ID *' (0010 - Roadway Items), 'Project Item Previous Price' (empty), 'Non-Bid' (checkbox), 'Combine With Like Items' (checkbox, checked), 'Item Alternate Set ID' (empty), 'Alternate Member ID' (empty), 'Estimation Type' (empty), 'Unit of Measure' (LF), 'Quantity' (empty), 'Project Item Unit Price' (empty), and 'Extended Amount' (empty). The 'Project Item Supp Description' field is also present but empty.

Figure 26

9. Click **<Save>** at the top of the Items component when complete.

NOTES:

- Use the **<Back to Top>** scroll button to return to the top of the page quickly.
- Once the items are saved, they will be reordered by item ID and supplemental description within each category. Items are automatically renumbered when additions are made and saved.

Item Worksheet

The Project Item Worksheet lists all the items in the project and provides a quick way to add, edit, or delete item information.

1. Under the Project, select the **Item Worksheet** quick link to complete the following tasks in a view that is similar to an Excel spreadsheet (*Figure 27*). Designers can use this view to update bid items including the category, item ID, supplemental description, quantity and price. Double click on each field value to edit.

Project Item Worksheet

Project: 1234-15-01 - Holmes Road, Town Of Gibson East Twin River Bridge And Approaches Save ?

Project Item Total
1,399,245.00

Q Advanced Showing 50 of 73

0 added | 0 marked for deletion | 0 changed

Cat ID	Proj L...	Item *	Descr	Suppl Descr	Units	Quantity	Price	Ext Amt
0010	0010	201.0105	Clearing		STA	2.000	368.60000	737.20
0010	0020	201.0205	Grubbing		STA	12.000	263.20000	3,158.40
0010	0030	203.0200	Removing Old Structure (station)	01. 10+ 50 RT	LS	1.000	31,250.00000	31,250.00
0010	0040	205.0400	Excavation Marsh		CY	98.000	9.70000	950.60
0010	0050	208.0100	Borrow	04. Outlets Festoon	CY	2,409.000	7.50000	18,067.50
0010	0060	213.0100	Finishing Roadway (project)	02. 1234-15-01	EACH	1.000	25,000.00000	25,000.00
0010	0070	305.0110	Base Aggregate Dense 3/4-Inch	02. 1234-03-71	TON	2,390.000	13.90000	33,221.00
0010	0080	619.1000	Mobilization		EACH	0.500	34,000.00000	17,000.00
0010	0090	642.5001	Field Office Type B		EACH	1.000	2,867.30000	2,867.30
0010	0100	657.0205	Transformer Bases Breakaway 13-15 Inch B...	Test 123	EACH	1.000	250.00000	250.00
0010	0110	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR		HRS	500.000	5.00000	2,500.00
0010	0120	SPV.0060	Special	03. Pole Fiberglass Mounting Height 40-Foot	EACH	1.000	575.00000	575.00
0010	0130	SPV.0060	Special	04. Outlets Festoon	EACH	1.000	50.00000	50.00
0020	0140	203.0200	Removing Old Structure (station)	05. 10+05 RT	LS	1.000	193,000.00000	193,000.00
0020	0150	203.0200	Removing Old Structure (station)	06. 10+40 RT	LS	1.000	27,450.00000	27,450.00
0020	0160	206.1000	Excavation for Structures Bridges (structure)	07. B-36-136	LS	1.000	11,200.00000	11,200.00
0020	0170	210.0100	Backfill Structure		CY	350.000	21.50000	7,525.00

Figure 27

2. Within the Item Worksheet, designers can add categories.
 - a. Select the Project Item Worksheet component action menu option (*Figure 28*).



- b. Select **Add New Category** (Figure 28).

The screenshot shows the 'Project Item Worksheet' for project '1234-15-01 - Holmes Road, Town Of Gibson East Twin River Bridge And Approaches'. The total value is 1,399,245.00. A table lists project items with columns for Cat ID, Proj L..., Item, Descr, and Suppl Descr. An 'Actions' menu is open, highlighting 'Add New Category...'. Other menu items include 'Check Out Project To Estimator', 'Export Project To Estimator', 'Attachments', 'Issues', 'Links', 'Reports', 'Final Project Detail Estimate', and 'Preliminary Project Detail Estimate'. Green callouts 'a' and 'b' point to the project name and the 'Add New Category' option respectively.

Cat ID	Proj L...	Item	Descr	Suppl Descr
0010	0010	201.0105	Clearing	
0010	0020	201.0205	Grubbing	
0010	0030	203.0200	Removing Old Structure (station)	01. 10+ 50 RT
0010	0040	205.0400	Excavation Marsh	
0010	0050	208.0100	Borrow	04. Outlets Festoon
0010	0060	213.0100	Finishing Roadway (project)	02. 1234-15-01
0010	0070	305.0110	Base Aggregate Dense 3/4-Inch	02. 1234-03-71
0010	0080	619.1000	Mobilization	

Figure 28

- c. On the **Add New Category** component (Figure 29), enter the category ID and description. Select the **Combine Like Categories** check box, so that all categories in the project will share the same section group in the proposal. See the Project Summary Data Fields and Category Data Fields tables at the end of this chapter for guidance on filling out required data fields.
- d. Click **<Save Category>**. Items can now be added to the new category.

The 'Add New Category' dialog box contains the following fields and controls:

- Category ID ***: Text input field containing '0070'.
- Category Description ***: Text input field containing 'B-67-740'.
- Combine Like Categories**: A checked checkbox.
- Save Category**: A button at the bottom right.

Green callouts 'c' and 'd' point to the Category ID field, the Category Description field, the 'Combine Like Categories' checkbox, and the 'Save Category' button respectively.

Figure 29

3. Add a single item to a project

- a. To add a new item to the project, click **<New Item>** at the bottom of the Project Item Worksheet. This adds a new row at the bottom of the worksheet and all fields in the new row are blank (*Figure 30*).

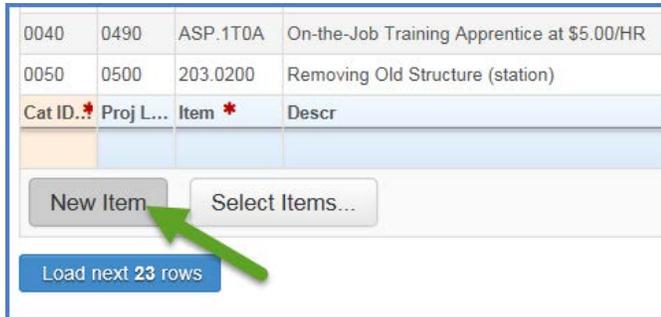


Figure 30

OR

You can also insert a new item row anywhere in the worksheet by selecting the row above which you want to insert the new item and click the **<Insert Blank Row Above>** icon in the row Actions menu (*Figure 31*).



Figure 31

OR

You can also add an item by copying another item already in the list.

- i. Select the item row you want to copy.
- ii. Expand the Row Action Menu.
- iii. Click the **<Copy Row>** icon (*Figure 32*).

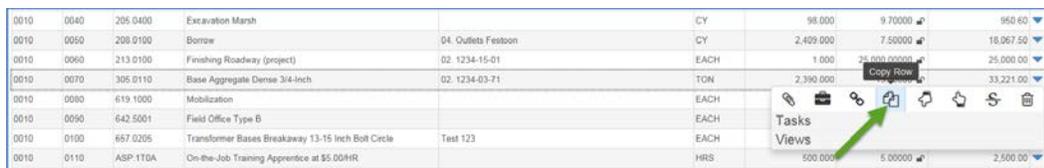


Figure 32

- iv. Expand the Row Action Menu again
- v. Click the **<Paste Copied Row Below>** icon. (*Figure 33*)

Cat ID	Proj Line	Item	Descr	Suppl Descr	Units	Quant	Unit Price	Total Price
0010	0050	208.0100	Borrow	04. Outlets Fesbton	CY	2,409.000	7.50000	18,067.50
0010	0060	213.0100	Finishing Roadway (project)	02. 1234-15-01	EACH	1.000	25,000.000	25,000.00
0010	0070	305.0110	Base Aggregate Dense 3/4-inch	02. 1234-03-71	TON	2,390.000	14.32000	34,224.00
0010	0080	619.1000	Mobilization	02. 1234-03-71	TON	1.000	2,967.300	2,967.30
0010	0090	642.5001	Field Office Type B		EACH	1.000	2,967.300	2,967.30

Figure 33

- b. For all three options noted above, complete the appropriate fields. See the Item Fields and Category Data Fields tables at the end of this chapter for guidance on filling out required data fields.
- c. Click **<Save>** to save the item.

4. Add multiple items to a project

- a. To add multiple items to the project, click **<Select Items...>** at the bottom of the Project Item Worksheet (Figure 34).

0040	0460	619.1000	Mobilization
0040	0470	645.0120	Geotextile Fabric Type HR
0040	0480	647.0131	Pavement Marking Arrows Preformed Thermoplastic Type 7R
0040	0490	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR
0050	0500	203.0200	Removing Old Structure (station)

Figure 34

- b. In the **Select Items** window (Figure 35):

- i. Enter the Category ID for all the items being added to the project.
- ii. Either search for the items to add to the project OR click on **Show first 10**
- iii. Click the row for each item you want to add. This will place a green checkmark in front of the item(s) to be added to the project.

Item	Descr	Unit
201.0210	Grubbing	SY - Square Yard
203.0210.S	Abatement of Asbestos Containing Material (structure)	LS - Lump Sum
204.0210	Removing Manholes	EACH - Each
208.2100.S	Fly Ash for Subgrade Stabilization Furnished	TON - Ton
210.0100	Backfill Structure	CY - Cubic Yard
415.0210	Concrete Pavement Gaps	EACH - Each
455.0210	Asphaltic Material PG58-34	GAL - Gallon
502.3210	Pigmented Surface Sealer	SY - Square Yard
506.2105	Bearing Pads	SF - Square Foot

Figure 35



iv. Click **<Add to Project>** when all items have been selected (*Figure 36*).

658.0210	Backplates Signal Face 1 Section 12-Inch	EACH - Each
659.0210	Luminaires Underdeck 100 Watts	EACH - Each
659.1210	Luminaires Underdeck LED B	EACH - Each
SPV.0210	Special	WK - Week

Add to Project

Figure 36

c. The items will appear at the bottom of the Project Item Worksheet (*Figure 37*).

Cat ID	Proj Line	Item	Descr	Units	Quantity	Price	Ext Amt
0050	0500	203.0200	Removing Old Structure (station)	LS	1,000	193,000.00000	193,000.00
			05. 10+05 RT				
			Suppl Descr				
0010		455.0210	Asphaltic Material PG58-34	GAL			
0010		502.3210	Pigmented Surface Sealer	SY			

Load next 23 rows | Showing 56 of 73

Figure 37

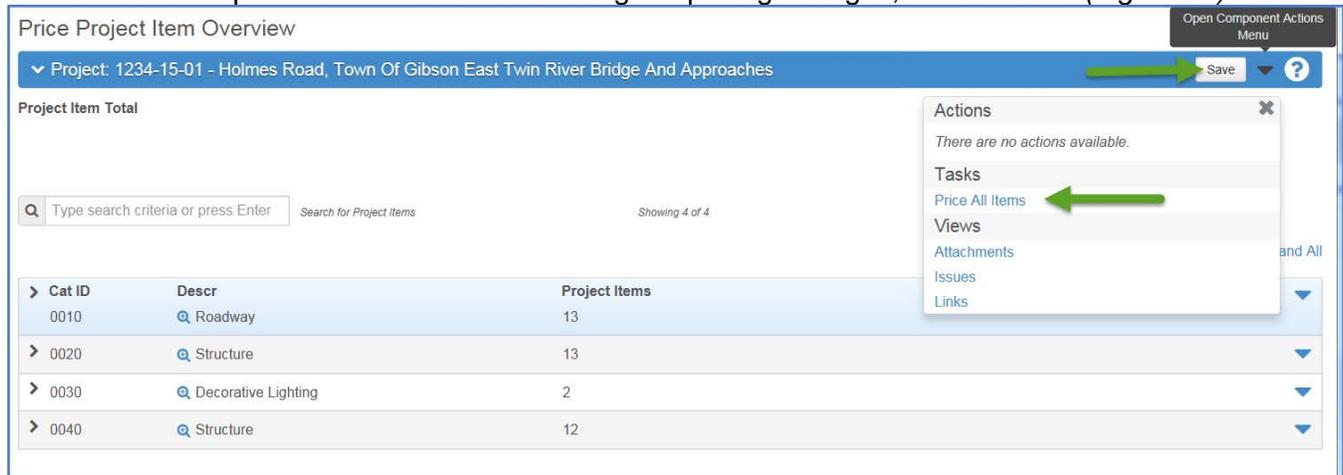
- d. For all three options noted above, complete the appropriate fields. See the Item Fields and Category Data Fields tables at the end of this chapter for guidance on filling out required data fields.
- e. Click **<Save>**. Once the items are saved, they will be reordered by item ID and supplemental description within each category. Items are automatically renumbered when additions are made and saved.

Item Pricing

The Price Project Item Overview component allows designers to change the estimated unit price for any project item and can be used for estimate justifications in the future. Designers can change the price of a single item manually or automatically generate a price based on historical bids. Designers can also generate bid-based prices automatically for all the items in a category or the entire project. Creating an estimate with bid-based prices is usually done in the early estimation process. Prices are then refined for the final estimate.

Price All Items within the Project

To price all the items in the project, select **Price All Items** from the Price Project Item Overview actions menu on the component header. After reviewing the pricing changes, click **<Save>** (Figure 38).



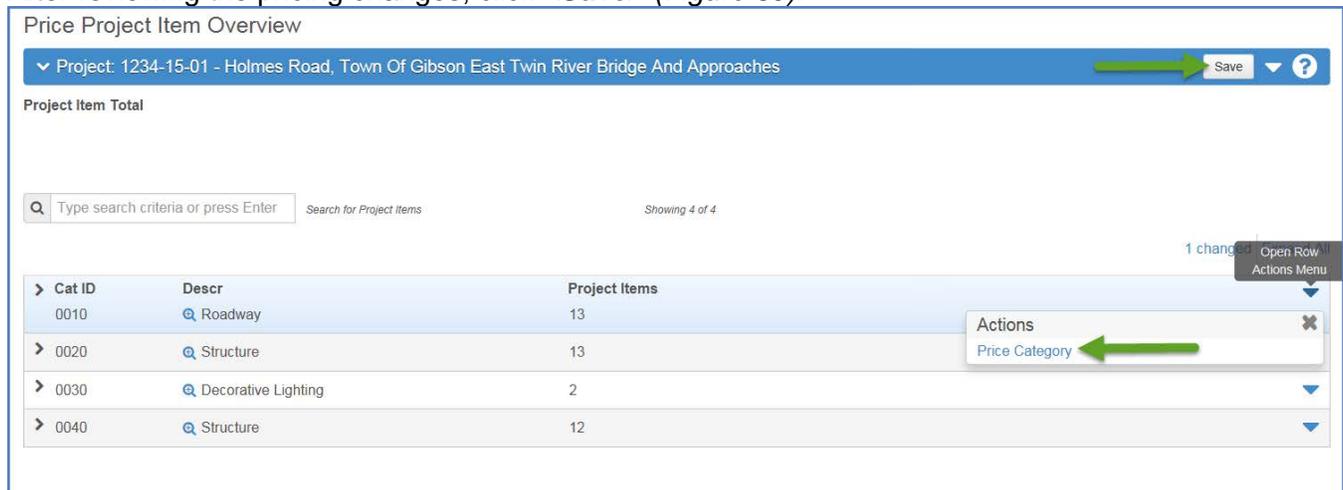
The screenshot shows the 'Price Project Item Overview' interface for project '1234-15-01 - Holmes Road, Town Of Gibson East Twin River Bridge And Approaches'. The 'Project Item Total' section shows a search bar and a table with 4 items. The 'Actions' menu is open, and 'Price All Items' is highlighted with a green arrow. The 'Save' button in the top right is also highlighted with a green arrow.

Cat ID	Descr	Project Items
0010	Roadway	13
0020	Structure	13
0030	Decorative Lighting	2
0040	Structure	12

Figure 38

Price All Items within a Category

To price all the items in a single category, select **Price Category** from the category level actions menu. After reviewing the pricing changes, click **<Save>** (Figure 39).



The screenshot shows the 'Price Project Item Overview' interface for project '1234-15-01 - Holmes Road, Town Of Gibson East Twin River Bridge And Approaches'. The 'Project Item Total' section shows a search bar and a table with 4 items. The 'Actions' menu is open, and 'Price Category' is highlighted with a green arrow. The 'Save' button in the top right is also highlighted with a green arrow.

Cat ID	Descr	Project Items
0010	Roadway	13
0020	Structure	13
0030	Decorative Lighting	2
0040	Structure	12

Figure 39



Price an Individual Item

To price an individual item, expand the category and select **Price Item** from the row level actions menu. After reviewing the pricing change, click **<Save>** (Figure 40).

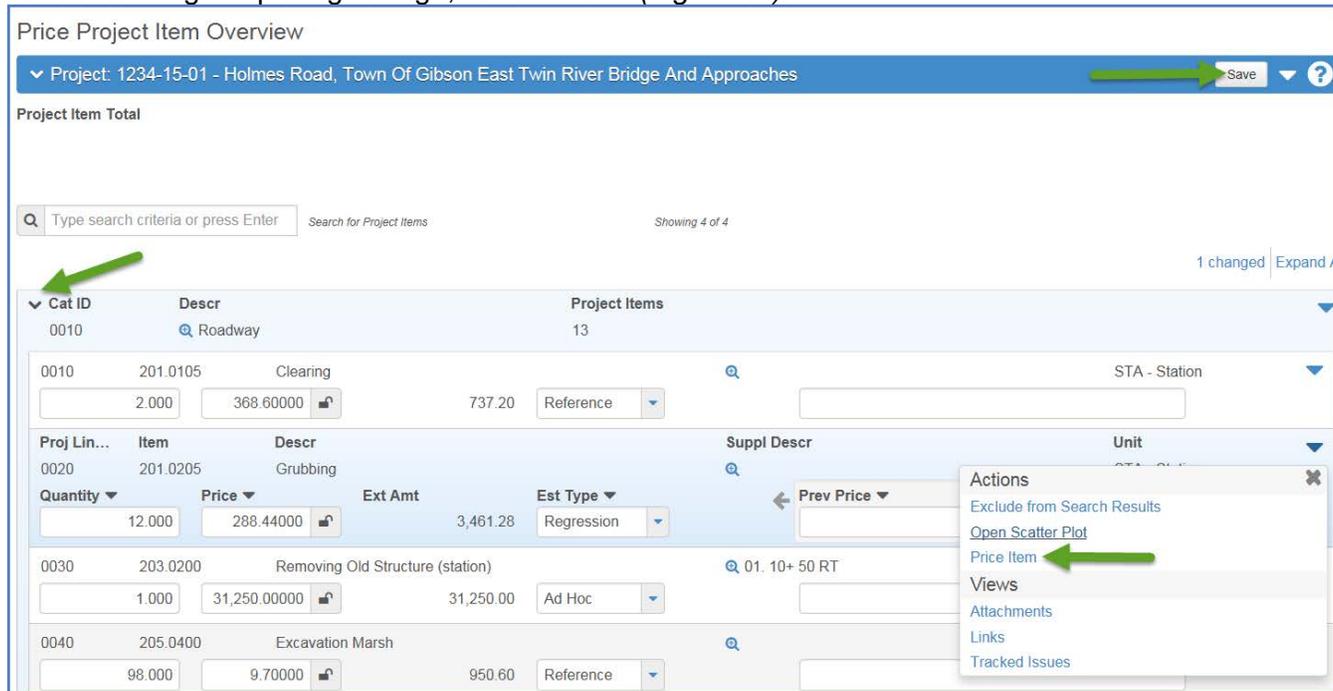


Figure 40

For all three options, the system updates the value(s) in the Price field and changes the Est Type to either Regression or Average, depending on which estimation model is chosen. The Ext Amount and Project Item Total fields are also automatically updated. If no historical information is available for an item, the system updates the Price field with the reference price and changes the Est Type to Reference. If reference price information is also not available, the system leaves the price as it was.

Manually Update the Price on an Individual Item

To price an individual item manually, expand the category, expand the item and enter the new item price. The Est Type will change to Ad Hoc. Click **<Save>** (Figure 40).



Scatter Plots

WisDOT maintains historical bid data within our BAMS/DSS system. Data from the last three years is used to create item pricing information and Scatter Plots. A Scatter Plot is a graphical representation of price versus quantity derived from past bid prices for a given bid item. Designers can select Open Scatter Plot from the Actions menu on any item's row to view the scatter plot created for that item (Figure 41). If the item has historical quantity information, the scatter plot is opened in a new browser window (Figure 42).

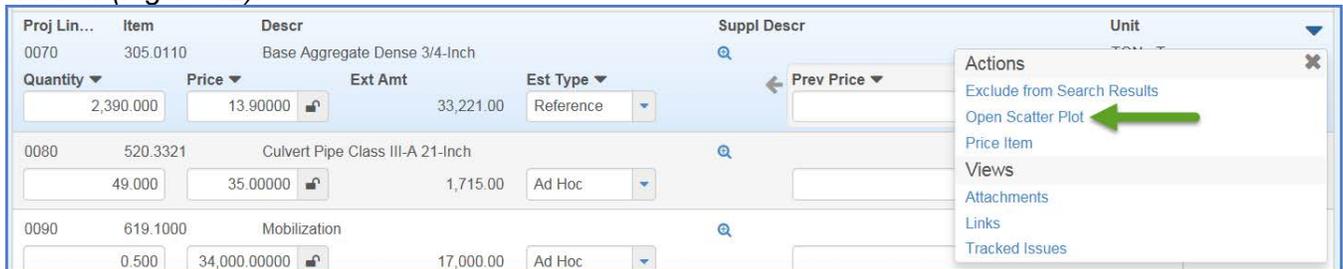


Figure 41

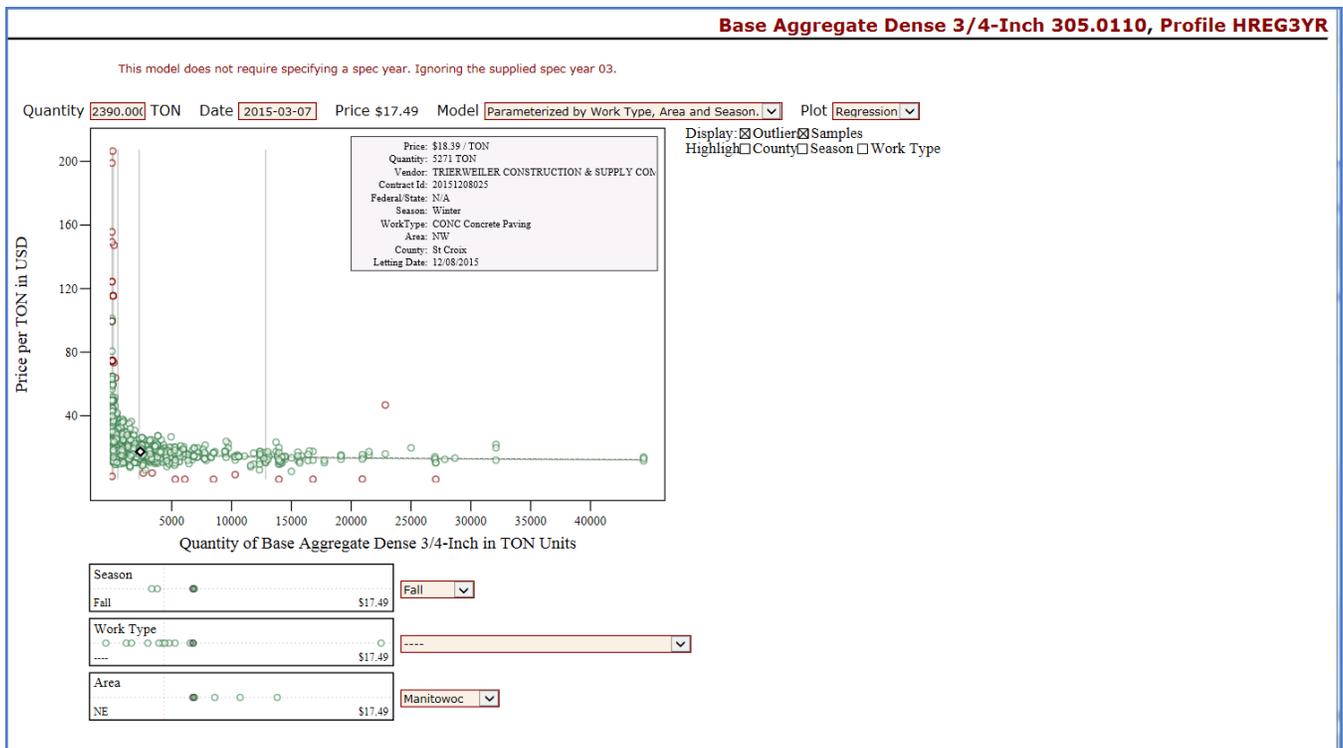


Figure 42



Find Bid Data

Within AASHTOWare Project Preconstruction, staff have access to a new Estimation component which allows designers to look at past bid data similar to Bid Express.

1. From the dashboard, select the “Find Bid Data” link under the Estimation component (*Figure 43*).

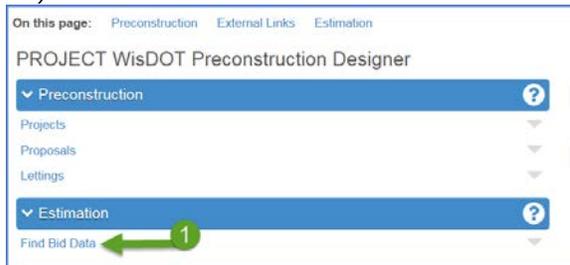


Figure 43

2. Begin by entering a bid item number in the search box. A list of matching bid items will appear. Select the item and the system will search historical bids and lists proposals that include the item from the selected spec book.
3. Designers have the ability to filter and sort the results.
4. Expand a proposal to see bidder information.

The screenshot shows the 'Find Bid Data' search interface. A search box contains '201.0105' with a dropdown showing '03 Clearing STA - Station'. A 'System Default' dropdown is set to 'System Default'. The results table is expanded for proposal 20150929001. A red box highlights the bidder information table.

Bid Rank	Bidder ID	Bidder Name	Awarded	Unit Price Bid
1	WCC005	WALSH CONSTRUCTION COMPANY II, LLC	Yes	400.00000
2	LU08	LUNDA CONSTRUCTION COMPANY	No	400.00000
3	BZC000	BADGER ZOO CONSTRUCTORS LLC	No	325.00000

Figure 44



Fund Package Overview

Funding information for all WisDOT project categories is located in FIIPS. The WisDOT Project Manager or Local Program Managing Consultant should provide this information for your project. This component allows the designer to create fund packages to be used on their project.

Funding rules:

- Every category must be funded.
- Every priority within a fund package must have a participation percent totaling 100%.
- If a limit is set then an additional priority is required that must have a participation percent totaling 100%.

There are two ways to use Fund Packages. Designers can use pre-defined WisDOT Fund Packages or create user-defined Fund Packages. All fund packages must match the category funding identified in FIIPs. A project can use all pre-defined, user-defined or a combination of fund packages.

NOTE: Fund packages that were imported from AASHTOWare Project PES system will automatically receive a 3 digit fund package number starting with 100 and incrementing by one. There is a separate fund package created for each category for these imported projects. Update the Fund Package ID and Description for these fund packages to align with the category they are paired with. (Figure 45).

Converted Fund Package ID	New Fund Package ID	Description
100	0010	Category 0010 Funding
101	0020	Category 0020 Funding
102	0030	Category 0030 Funding

Figure 45

Pre-defined WisDOT Fund Packages:

There are (5) five pre-defined WisDOT Fund Packages (Figure 46) that designers can use on their projects. These were created for the most common project funding scenarios.

Fund Package ID	Description
F100	100% Fed
F50S50	50% Fed and 50% State
F80S20	80% Fed and 20% State
F90S10	90% Fed and 10% State
S100	100% State

Figure 46

Complete the steps below to assign a pre-defined fund package to the project.

1. Select the **Fund Package Overview** quick link.
2. Click **<Select Fund Packages>** (Figure 47).

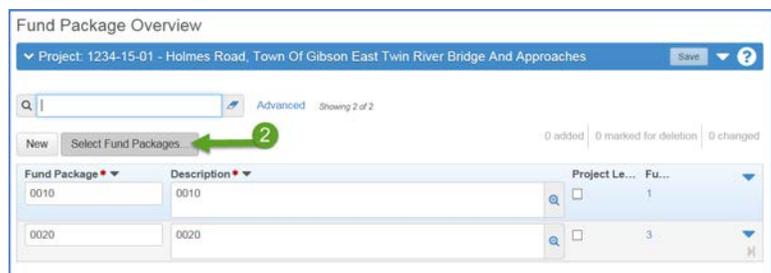


Figure 47



3. On the **Select Reference Fund Packages** component (*Figure 48*), use an advanced search or click **<Show First 10>** to expand the list of pre-defined fund packages. Select one or more fund packages from the list. These are edited later to fit the project's needs.
4. Click **<Add Fund Package>**. Changes are automatically saved.

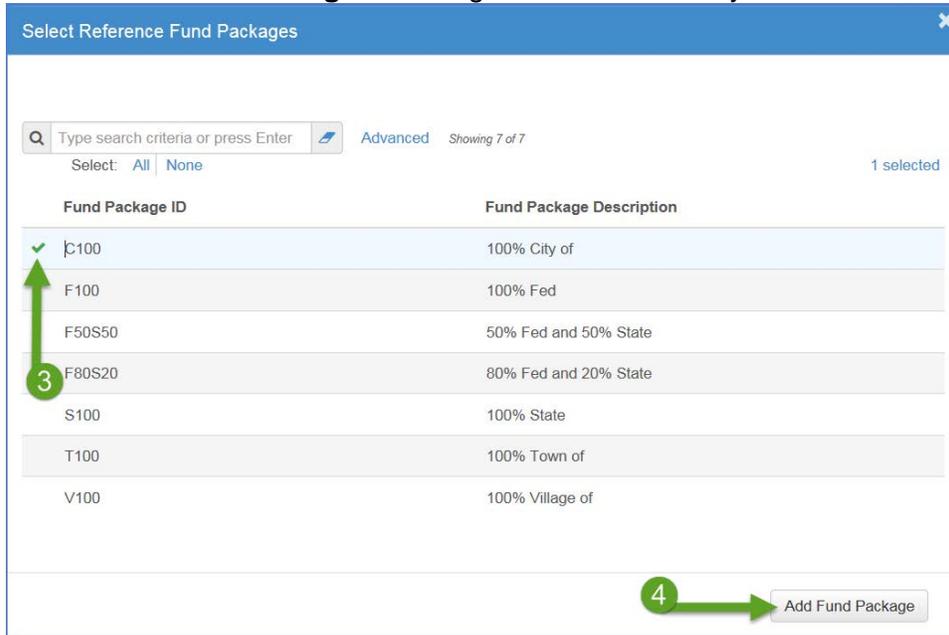


Figure 48

5. Make necessary edits on the **Fund Package Overview** component (*Figure 49*).
 - a. **Description** – Edit Fund Package number and Description to match the category that it will be tied to; ie. Number “0030” and Description “Category 0030 funding”. Similar to the table in *Figure 45*.
 - b. Select the **Project Level** Funding flag if the fund package can be applied to all or most categories in the project. To add additional pre-defined fund packages for any category funding that is unique, repeat the steps above. To add user-defined fund packages, see the steps listed below. Click **<Save>**.
 - c. Click the hyperlink number for the **Funds** field to review the funding source details for the Fund package. The next section "Fund Package Summary" describes how to edit and add funds to the Fund Package.

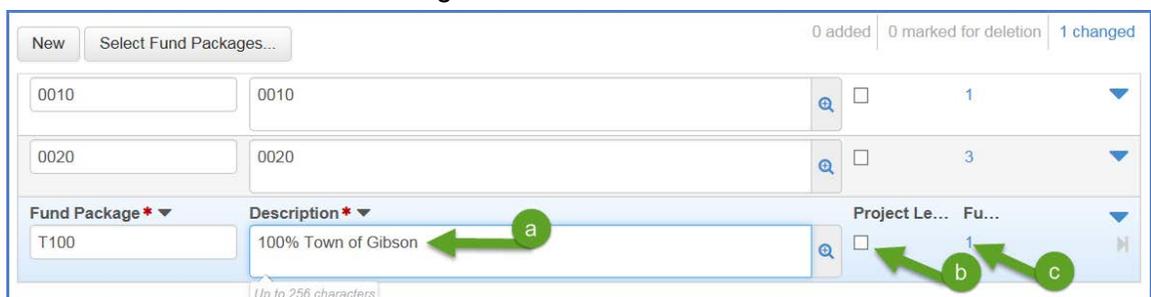


Figure 49

User-defined Fund Packages:

Designers can create their own fund packages for their projects instead of using the pre-defined fund packages. To change a user-defined Fund Package:

1. Select the **Fund Package Overview** quick link.
2. To change an existing Fund Package, select the field you wish to change including Fund Package ID, Description, or Project Level flag (*Figure 50*).

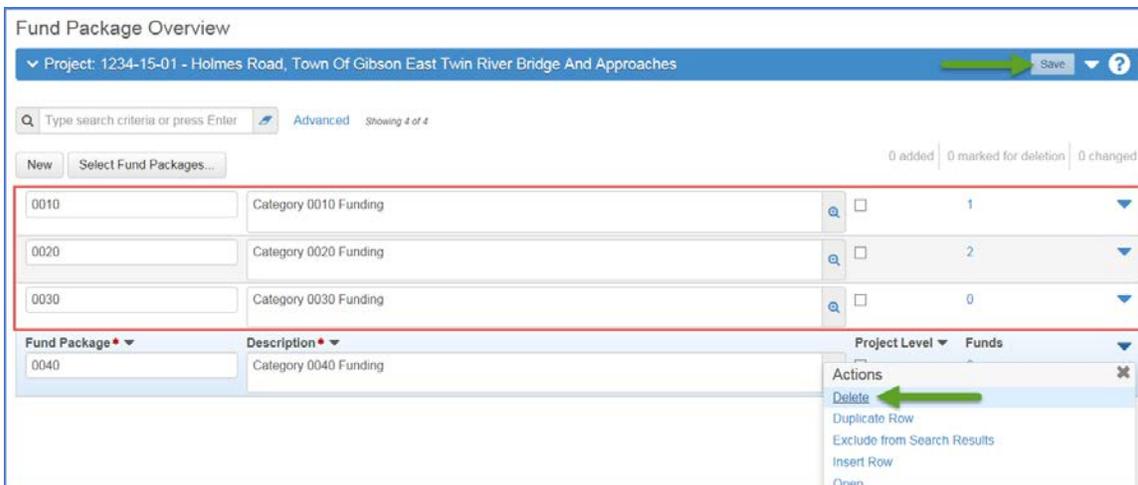
NOTE: Projects imported from AASHTOWare Project PES will automatically receive a 3 digit fund package number. There is a unique fund package created for each category in the project. These will be in numeric order starting with 100 and incrementing by 1. The fund package description is a combination of the category number and category description. It is recommended that designers renumber these converted fund package numbers to match the category number, and revise the description as shown in step 3 below. (*Figure 50*)

Converted Fund Package ID	New Fund Package ID	Description
100	0010	Category 0010 Funding
101	0020	Category 0020 Funding
102	0030	Category 0030 Funding

Figure 50

To add an user-defined Fund Package, click **<New>** and complete the following fields (*Figure 51*):

1. **Fund Package** – enter the 4 digit category number for the fund package being created.
2. **Description** – enter a description using the format “Category XXXX Funding” where “XXXX” is the category number.
3. Check **Project Level** checkbox if the fund package is used at the project and not category level.
4. Click **<Save>**.



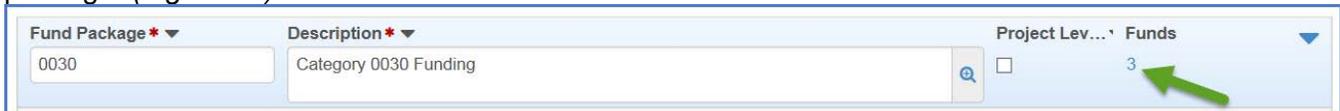
(Figure 51)

5. To delete a Fund Package, expand the **Fund Package** component action button and select **Delete**. Click **<Save>**.

Fund Package Summary

The **Fund Package Summary** component contains all the funding information currently recorded for the project, including its fund packages and associated funds. On this component, designers can add new fund packages or add and change the funds included in the fund packages.

To access the Fund Package Summary, select the **Fund Package Overview** quick link. Under the Fund column, click the numeric field which references the number of funds associated to the fund package. (Figure 52)



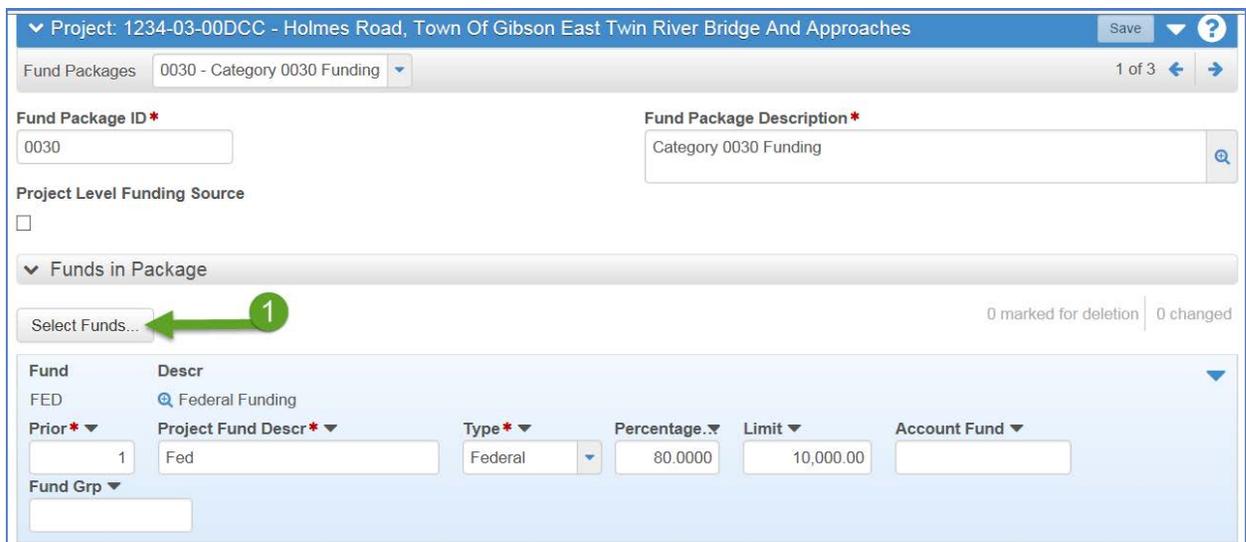
Fund Package*	Description*	Project Lev...	Funds
0030	Category 0030 Funding	<input type="checkbox"/>	3

Figure 52

This will reveal the funding source details for the Fund package. Designers can add new funding sources or change existing funding sources. (Figures 53, 54 and 55)

To add a new Fund Source to the category funding package:

1. Click **<Select Funds>** (Figure 53).



Project: 1234-03-00DCC - Holmes Road, Town Of Gibson East Twin River Bridge And Approaches

Fund Packages: 0030 - Category 0030 Funding

Fund Package ID*: 0030

Fund Package Description*: Category 0030 Funding

Project Level Funding Source:

Funds in Package

Select Funds... (1)

Fund	Descr	Prior*	Project Fund Descr*	Type*	Percentage..	Limit	Account Fund
FED	Federal Funding	1	Fed	Federal	80.0000	10,000.00	

Figure 53

2. In the Select Funds selection window, use an advanced search or click **<Show First 10>** to expand the list of funding sources (Figure 54).
3. Select one or more funding sources that will be used to fund the category (Figure 54 and 55).
4. Click **<Add to Fund Package>** (Figure 55).



Figure 54



Figure 55

When adding a new or to change an existing Funding source, complete the steps below: (Figure 56)

1. **Priority** – enter the one (1) digit priority number for the fund.
2. **Project Fund Description** – enter a description repeating the fund source description. If necessary, add the name of the city, town, or village to make the description more descriptive.
NOTE: The system will only allow you to change the description once. Otherwise you must delete the fund source and re-add it again.
3. **Type** – update if necessary.
4. **Percentage** – enter the percent for the fund.
5. **Limit** – enter the dollar amount limit for the fund if it has one. Otherwise leave blank.
NOTE: If there is a limit on a fund, then there must be a higher priority without a limit.
6. Repeat steps 1-5 for each fund source in the package.
7. Click **<Save>**.
8. If additional funding sources already exist, toggle to the next Fund Package by clicking on the arrow on the right side of the component header bar. Edit the additional fund sources following steps 1-7 above.

Project: 1234-03-00DCC - Holmes Road, Town Of Gibson East Twin River Bridge And Approaches

Fund Packages: 0030 - Category 0030 Funding

Fund Package ID*: 0030

Fund Package Description*: Category 0030 Funding

Project Level Funding Source:

Funds in Package

Fund	Descr	Prior*	Project Fund Descr*	Type*	Percentage	Limit	Account Fund
FED	Federal Funding	1	Fed	Federal	80.0000	10,000.00	
STATE	State Funding	1	state	Non Federal	20.0000		

Figure 56



Funding: Assign to Items

Each item in a project must have one (and only one) fund package assigned to it. You can assign fund packages to items individually or to save time, you can assign a fund package to all the items in a category or to all the items in the project at once. The WisDOT standard is to assign a fund package to all the items in a category.

The **Project Funding Assignment** component allows you to assign project items to fund packages in the project. Designers will assign all the items in a category to a fund package at once.

To access the Project Funding Assignment component, select the **Funding: Assign to Items** quick link on the Project Summary component (*Figure 57*).

Fund Package	Description	F
(A) 100	0010 Roadway Items	
(B) 101	0020 Structure Items	
(C) 102	0030 Decorative Lighting	

Figure 57

Assign funding by completing the steps below (*Figure 58*).

1. The Project Funding Assignment component contains two vertical lists. The left side of the component contains a list of all the categories in the project. Each category row displays the Category ID and Description, and a number of indicators on the right to denote the fund packages to which the items in the category are assigned.
2. Each category row can be expanded to list all the items in the category. Each item row contains indicators on the right to denote the fund package to which the item is assigned and current values for the following fields:
 - a. Project Item Line Number
 - b. Item Number
 - c. Unit of Measure
 - d. Item Description (without supplemental description)
3. The right side of the component contains a list of all the fund packages assigned to the project. The information in this list is for reference only and cannot be changed. Click the **arrow** to expand a fund package row and view the funding sources for the fund package.



- Each fund package in the list is labeled alphabetically, beginning with the letter **A**. These labels correspond to the indicators in the category/items list on the left. Each category/item row contains an indicator labeled **Mixed**, an indicator labeled **None**, and a letter indicator for each fund package in the project. For example, if a project contains three fund packages, each category and item row would contain these four indicators: **Mixed**, **None**, **A**, **B**, and **C**.

The system initially selects the **None** indicator for all categories and items that have not been assigned to a fund package.

To assign all the items in a category to the same fund package, select the appropriate Fund Package letter indicator on the category's row. The system automatically selects the same indicator in all item rows for that category.

- When finished maintaining fund package assignments, click **<Save>**.

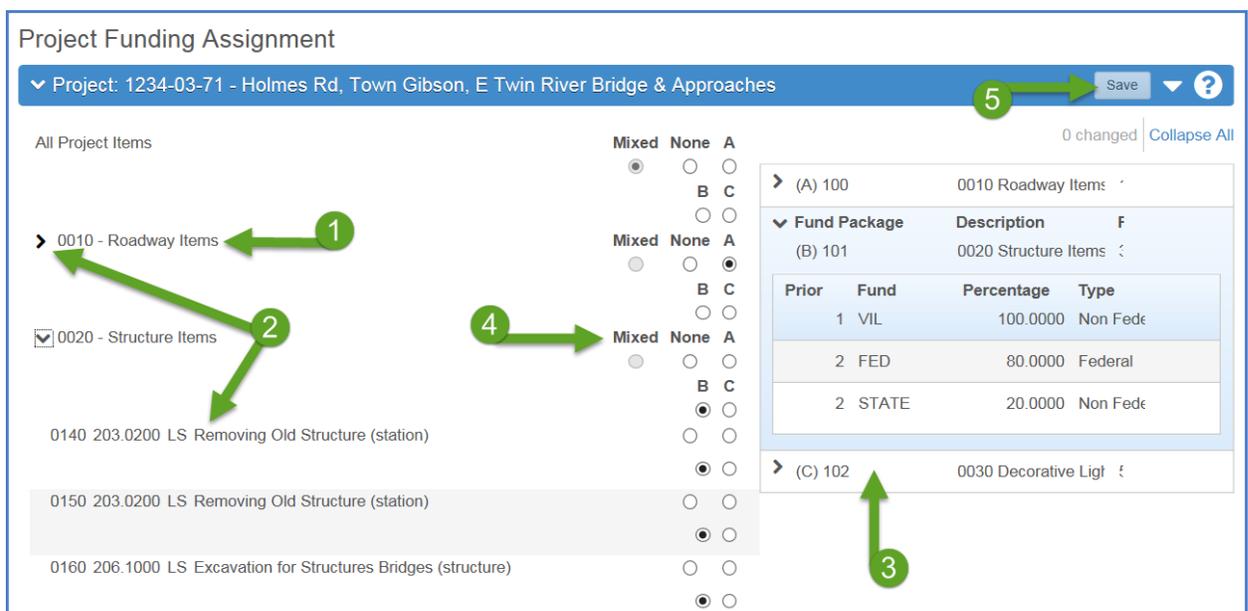


Figure 58

NOTES:

- If items are added after funding has been assigned, funding indicators will be shown as mixed. Edit each category with additional items, selecting the correct fund package indicator. Click **<Save>** when complete.



Project Validation

Designers **MUST** validate all projects to be included in their proposal. Correct any errors that are identified and validate the project(s) again. Note that these warnings do not stop further processing. Repeat for each project that will be included in the proposal.

To validate a project:

1. Select the **Validate Project** command from the Project level Actions menu on the Project Summary component header.
2. The following information is validated when you select the **Validate Project** option:
 - The project contains at least one project item.
 - The project contains at least one county.
 - The sum of the project county percentages equals 100%.
 - The project contains at least one region.
 - The project contains at least one category.
 - All project items must be assigned to a category.
 - All project items must have a quantity.
 - All project items must have a price.
 - If the **Bid Requirement Code** field is set to *Minimum* for an item, the project item price must be greater than or equal to the value in the **Unit Price Comparison** field.
 - If the **Bid Requirement Code** field is set to *Maximum* for an item, the project item price must be less than or equal to the value in the **Unit Price Comparison** field.
 - The project contains a point location record with the word "midpoint" recorded in the **Description** field and recorded values for **longitude** and **latitude**.
 - All project items have been funded.
 - All fund packages associated with an item must pass funding validations.
3. If errors are found, the designer must correct them and rerun the validation. All projects to be included in a proposal need to be validated.



Generating the Project Level Preliminary Detail Estimate Report

The Project Level Preliminary Detail Estimate is not required documentation for PS&E. This report is used for reviewing the project details only. Complete these steps to print this report (*Figures 59-62*).

1. On the Project Summary component, click on the **Project Summary Component** actions menu.
2. Select **Preliminary Project Detail Estimate** (*Figure 59*).

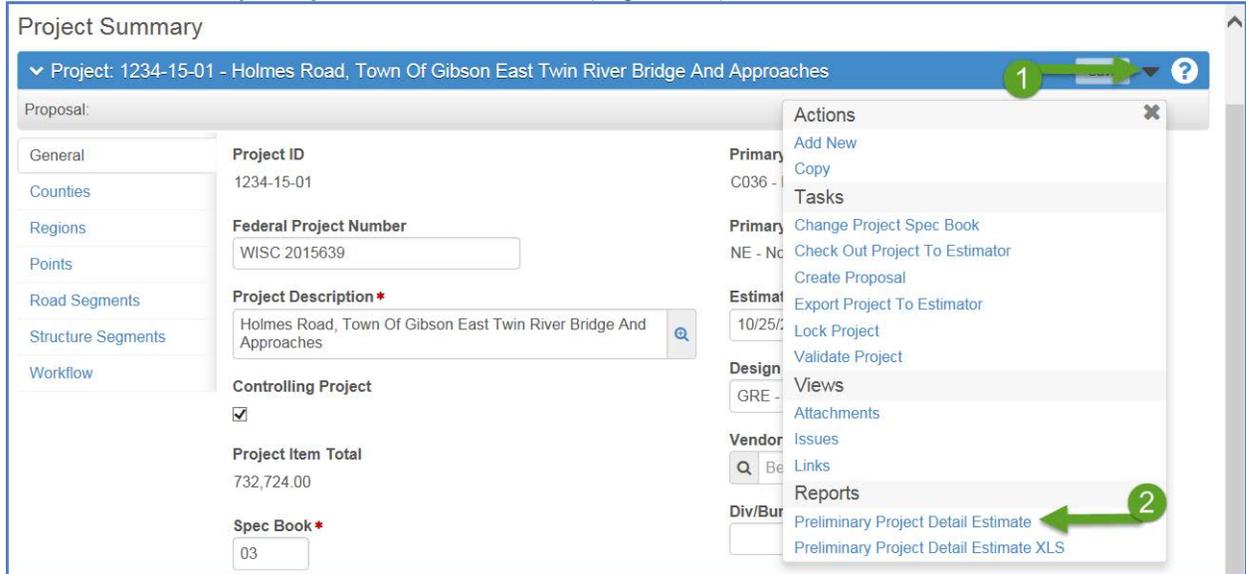


Figure 59

3. On Generate Report screen 3 of 5, all parameters are selected by default. Deselect the bottom three funding summaries and select the right arrow to go to page 4 (Figure 60).

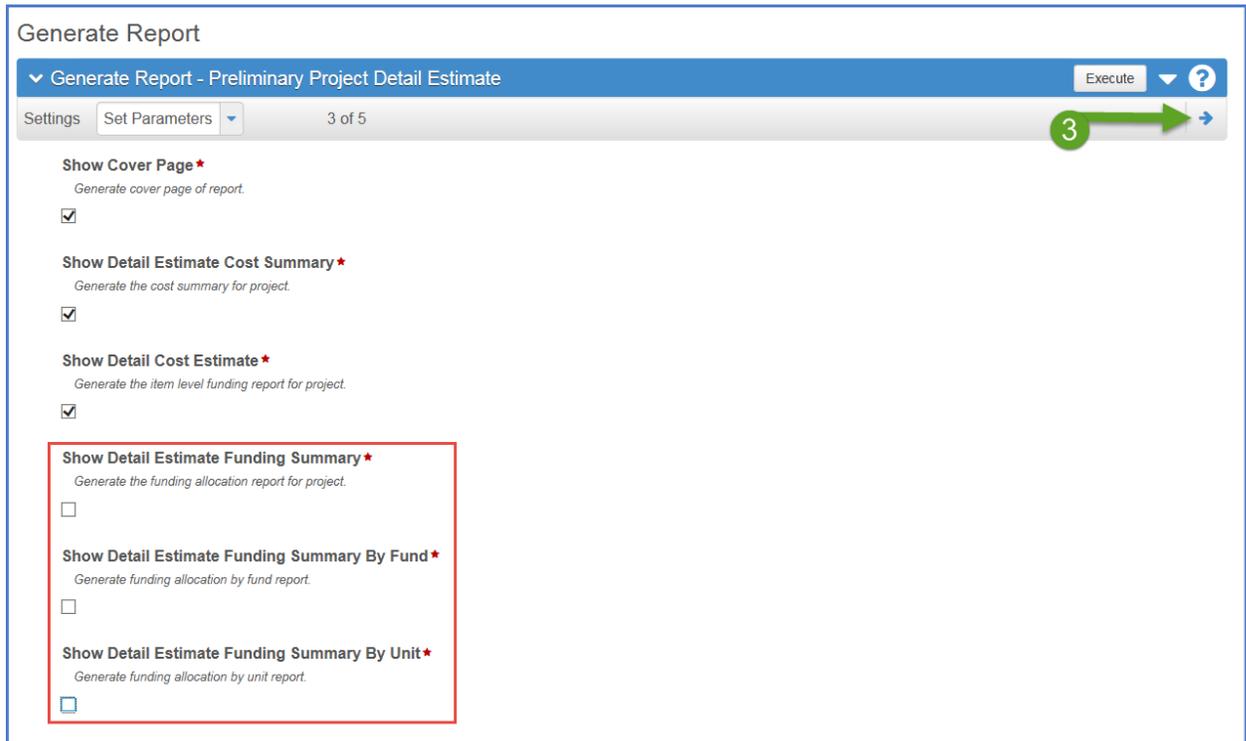


Figure 60

4. On Generate Report screen 4 of 5, confirm the following settings are correct (Figure 61).
 - a. Output type – Generate as PDF
 - b. Report Layout Source – Custom, to apply the custom WisDOT template for this report.
 - c. Select the right arrow to go to page 5.

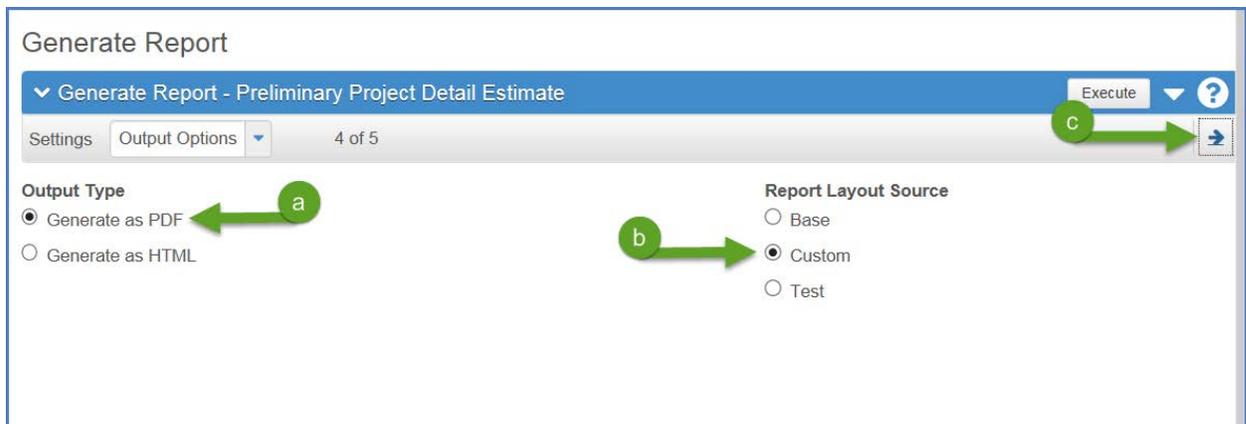


Figure 61

5. On Generate Report screen 5 of 5, designers have the option to **Enable Scheduling** (Figure 62). See Chapter 2 – Introduction and Navigation for details about how to schedule a report to print at a later time.

6. After determining whether to schedule the report or run immediately, click **<Execute>** to continue (*Figure 62*). The Detail Cost Estimate report will open up in a new browser window. An example of the completed report is at the end of this chapter. Designers must print or save this report prior to closing the browser window if they need access to this report in the future. It will not appear in Process History.

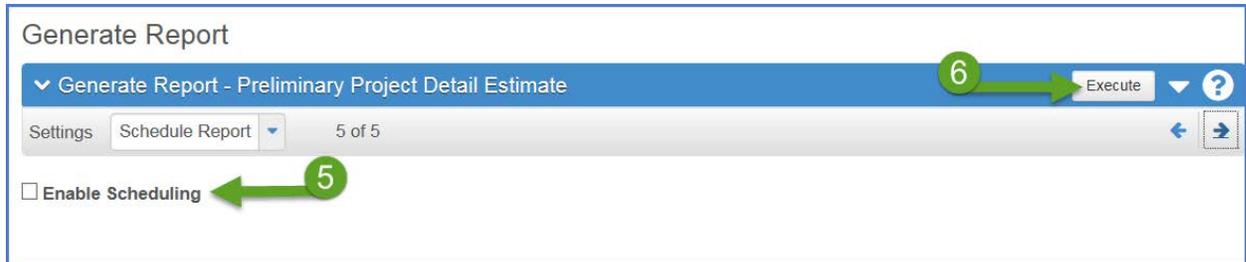


Figure 62

Copying Projects

If you have two projects that are very similar you can copy project information from one project to a new project in PES. You can edit the new project in AASHTOWare Project and attach it to a proposal.

1. To copy a project, search for the original project (*Figure 63*).
2. Expand the project row level actions menu (*Figure 63*).
3. Select **Copy** (*Figure 63*).

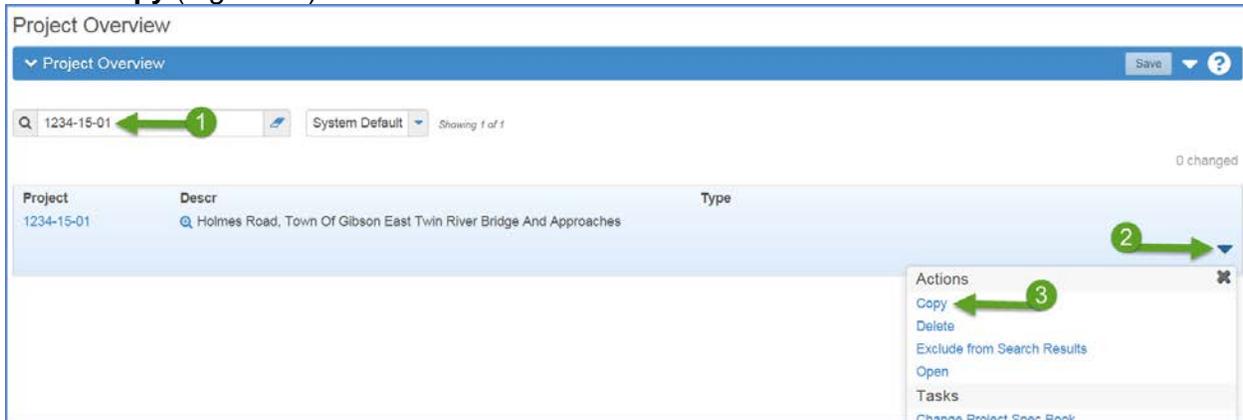


Figure 63

4. Enter the new project id in the “New Project ID” field (*Figure 64*).
5. Click on the **<Copy>** button. All the data for the original project is copied to the new project (*Figure 64*).

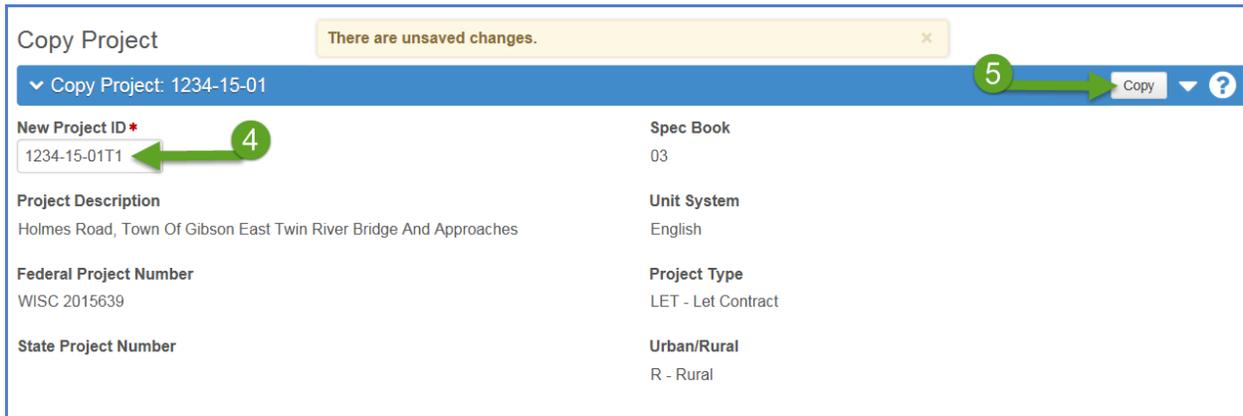


Figure 64

NOTE:

- The Workflow Phase is **NOT** copied to the new project. Designers **MUST** set the WisDOT Workflow Phase for the copied project to “Project Definition”.



Generating a Project Level Preliminary Detail Estimate XLS file

Complete these steps to export your items, unit prices and totals to an XLS file that can be reviewed in Microsoft Excel.

1. On the Project Summary component, click on the **Project Summary Component** actions menu.
2. Select **Preliminary Project Detail Estimate** (Figure 65).

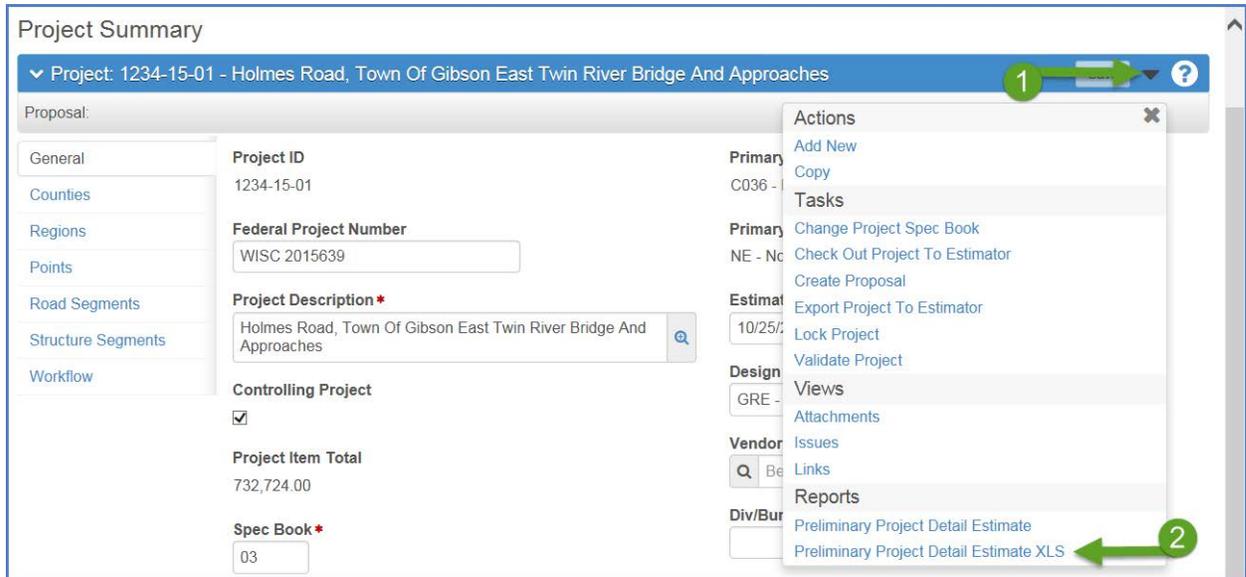


Figure 65

3. On Generate Report screen 4 of 5, click **<Execute>** (Figure 66).

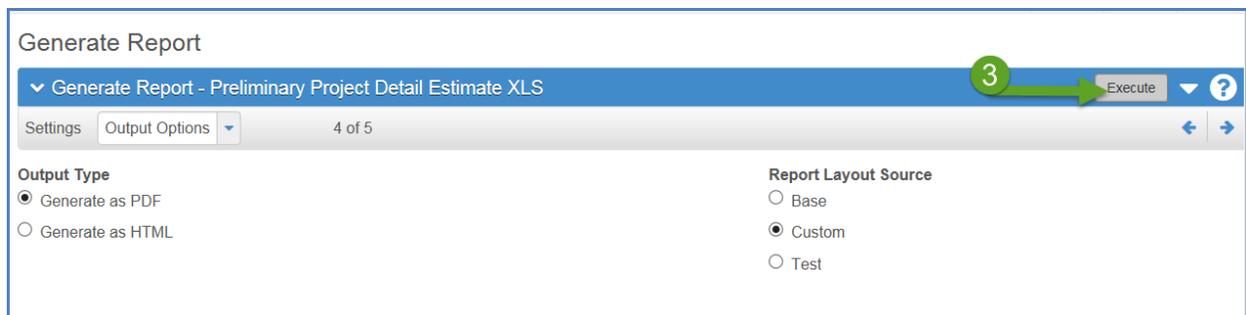


Figure 66



- A new browser window will open followed by a window to save the XLS file. Select **Open** (Figure 67).

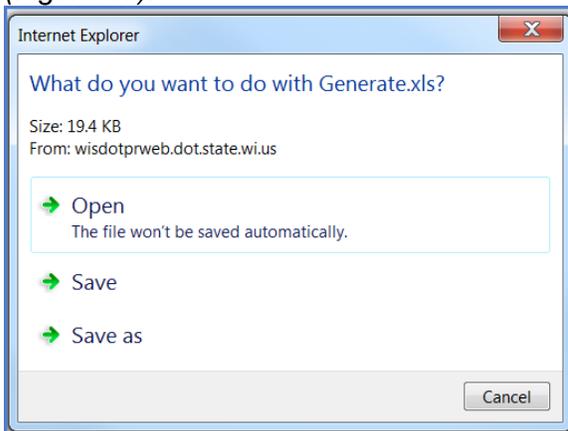


Figure 67

- The Project Detail Cost Estimate will open in Microsoft Excel (Figure 68). Save the file to sort and review the data at a later date.

Line No.	Item Code	Spec Book	Item Description	Alt Set ID	Alt Mem ID	Units	Est. Qty	Unit Price
12	0010	201.0105	03 Clearing			STA	2,000	368.60000
13	0020	201.0205	03 Grubbing			STA	12,000	263.20000
14	0030	203.0200	03 Removing Old Structure (station) 01. 10+ 50 RT			LS	1,000	31,250.00000
15	0040	205.0400	03 Excavation Marsh			CY	98,000	9.70000
16	0050	208.0100	03 Borrow			CY	2,409,000	7.50000
17	0060	213.0100	03 Finishing Roadway (project) 02. 1234-15-01			EACH	1,000	3,500.00000
18	0070	205.0110	03 Base Aggregate Dense 3/4-Inch			TON	2,390,000	13.90000
19	0080	220.3321	03 Culvert Pipe Class III-A 21-Inch			LF	49,000	35.00000
20	0090	219.1000	03 Mobilization			EACH	0.500	34,000.00000
21	0100	242.5001	03 Field Office Type B			EACH	1,000	2,867.30000
22	0110	ASP.1T0A	03 On-the-Job Training Apprentice at \$5.00/HR			HRS	500,000	5.00000
23	0120	SPV.0060	03 Special 03. Pole Fiberglass Mounting Height 40-Foot			EACH	2,000	575.00000
24	0130	SPV.0060	03 Special 04. Outlets Festoon			EACH	1,000	50.00000
							Category Total:	

Figure 68

Category Alternate Sets

Category alternate sets are used to group items based on the type of work to be done on the project for alternate bidding. This means that a bidder can choose to bid on either category, but not both.

If this is an option that is being discussed for your project, please contact the central office plan reviewers so that this may be incorporated into your project.

Designers are responsible to create their alternate categories by completing these steps on the Categories tab within the Project Category and Item Summary component.

1. Copy existing category (*Figures 69, 70, and 71*).
 - a. Select the **Category** action menu option for the category to be copied.
 - b. Select **Copy**.

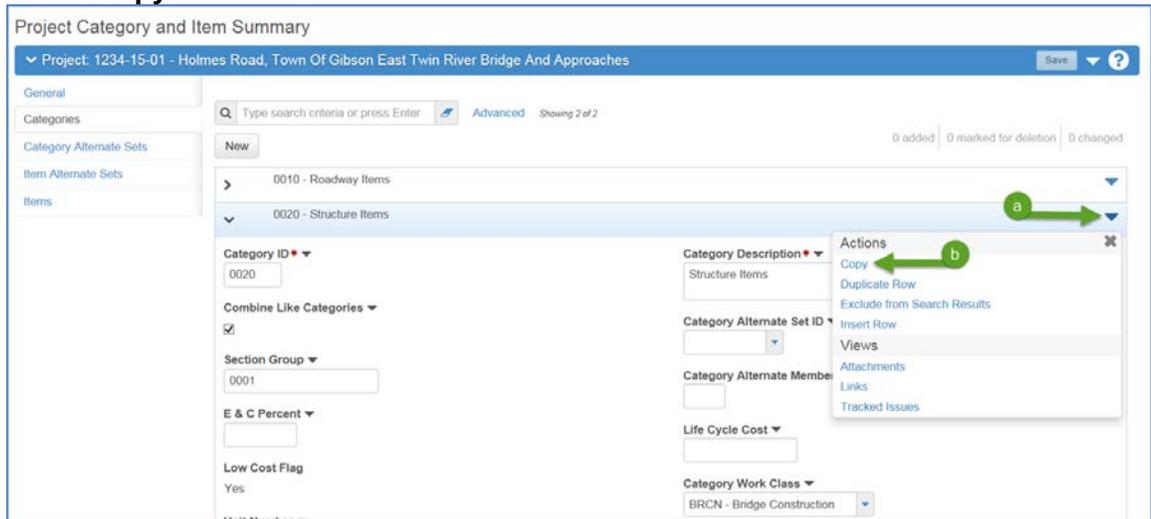


Figure 69

- c. On the Copy Category screen (*Figure 70*), update the Category ID which is a mandatory field.
 - d. Click **<Copy Category to Project>**.

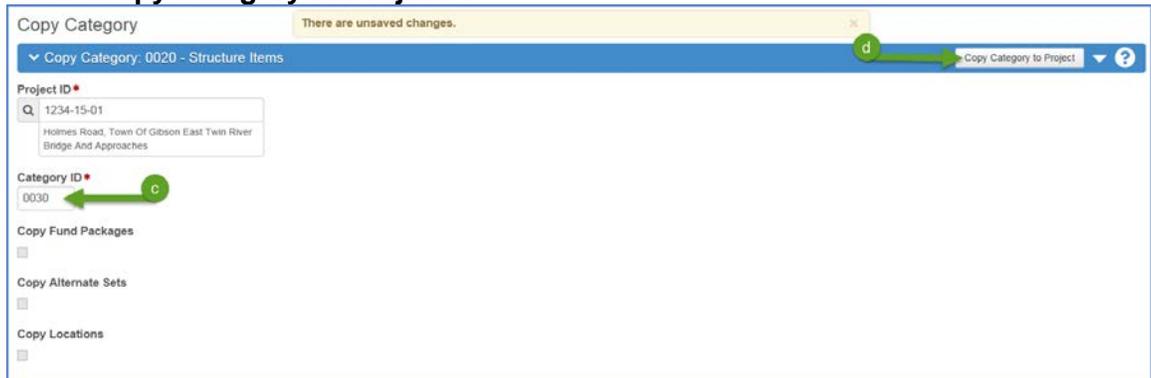


Figure 70



- e. Repeat the above 2 steps (c & d) to copy and create additional options/categories.

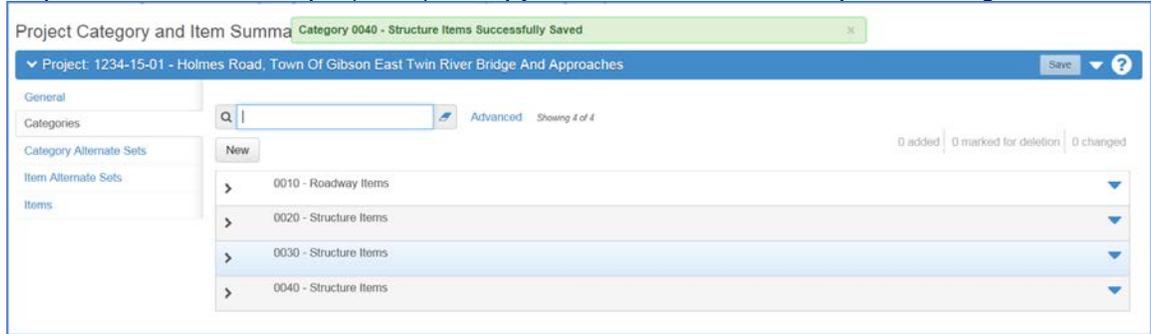


Figure 71

2. Editing Category Description for each option/category (Figure 72 and 73).

- a. Expand the option/category by clicking on the left arrow.
- b. Update the Category Description. It is recommended that designers use the same category description that appears within FIIPS under Project | Funding. Category descriptions will include Mandatory and Option A, B, C, etc.

Example:

- Structure Items (Mandatory)
- Structure Items (Option A)
- Structure Items (Option B)

- c. DO NOT enter or change the values for Section Group, Category Alternate Set ID or Category Alternate Member ID. These fields will be updated by the WisDOT DTSD BPD Statewide Plan Reviewers.
- d. Click **<Save>**.
- e. Repeat the above 4 steps (a-d) to edit the additional options/categories that were added to this project.

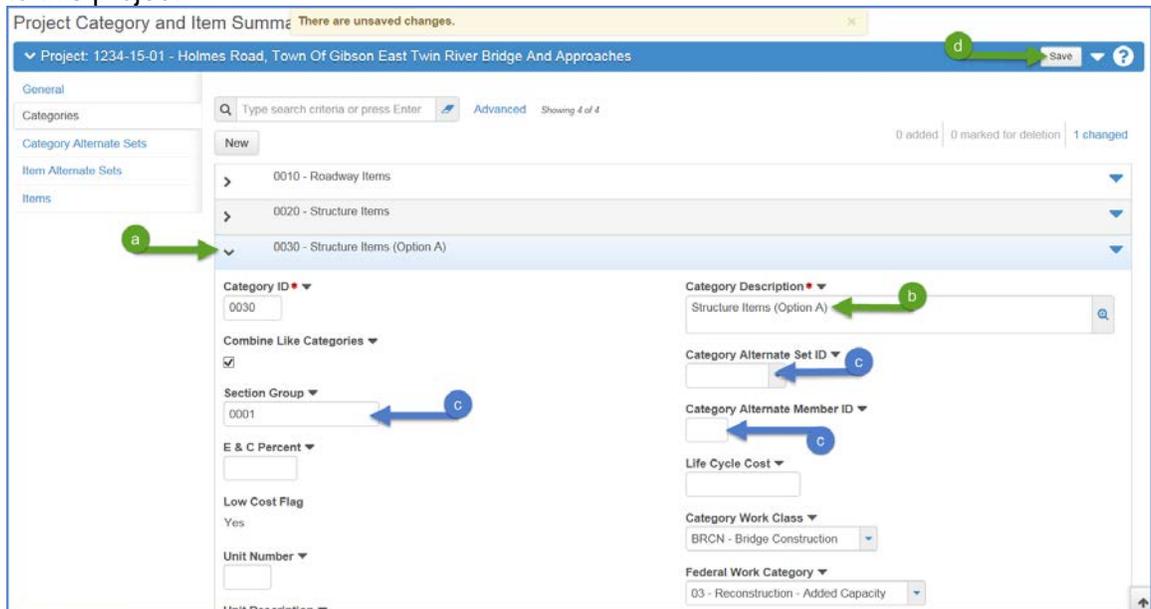


Figure 72



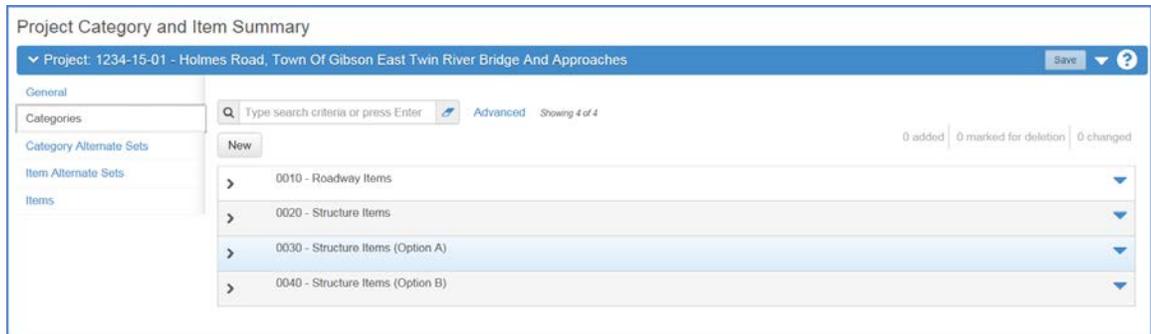


Figure 73

3. Editing the Category items specific to each option.
 - a. Adding, changing, and/or deleting bid items (Examples – supplemental numbers, descriptions, replacing item types, etc.)
 - b. Changing item quantities.
 - c. Setting unit prices as needed for each option.

REMEMBER - Designers must have a minimum of two options for each alternate category set.



Item Alternate Sets

Different items can serve as alternates for each other. This means that a bidder can choose to bid on either item, but not both.

This is a new feature for WisDOT available in AASHTOWare Project Preconstruction and has not been reviewed for use on contracts at this time.



Item Alternate Summary

Different items can serve as alternates for each other. This means that a bidder can choose to bid on either item, but not both.

This is a new feature in AASHTOWare Project Preconstruction and has not been reviewed for use on contracts at this time. If this is an option that is being discussed for your projects, please contact the DTSD BPD Statewide Plan Reviewers so that discussions may take place to see if this may be incorporated into your project.



Wage Decisions

IMPORTANT NOTE: Wage decision information is available only to agencies that license AASHTOWare Project Civil Rights & Labor. WisDOT has not implemented the Civil Rights & Labor module at this time so designers should not use this feature.

In AASHTOWare Project, wage decisions include federal, state, or local rules dictating the wage rates contractors must pay their employees for work on agency contracts.

Federal wage decisions are issued by the U.S. Department of Labor under the *Davis-Bacon and Related Acts*. The Wage and Hour Division of the U.S. Department of Labor determines the prevailing minimum wage rates and fringe benefits for each geographic area to be paid on federally funded or assisted construction projects.

General wage determination decisions and modifications contain no expiration dates and are effective from their date of notice in the Federal Register, or on the date written notice is received by the agency, whichever is earlier. It is the responsibility of your transportation agency to ensure that the proper wage decisions are applied to each federally-funded construction contract. For contracts funded by non-federal funds, state or local wage decisions may be applied.

Wage decisions are recorded at the project level for both proposals and contracts. The Project Wage Decision Overview contains all the wage decision information for the project. To access the component, click the Wage Decisions Quick link on the Project Summary component.



Project Summary Data Fields

Tab	Field	Required	Description
General	Project ID	Yes	Formerly referred to as "Project Number". Project ID with hyphens (usually assigned by the region). Example: 1234-03-71
	Federal Project Number	Yes	Formerly referred to as "Federal/State Project No." If this field is blank, enter "N/A". The Bureau of Business Services will change this to the federal number when it is assigned.
	Project Description	Yes	Enter project title/limit as shown in FIIPS. When the controlling project is used to create the proposal, remember that the proposal description will be limited to 60 characters so adjust accordingly.
	Controlling Project	Yes, if this is the main / controlling project	An indicator that this is the main/controlling project in a proposal containing multiple projects. NOTE: There can only be only one controlling project per proposal.
	Project Item Total	No	Formerly referred to as "Estimated Amount Of Project". This number will be updated automatically when you generate the Preliminary Detail Estimate Report.
	Spec Book	Yes	Formerly referred to as "Spec. Year". Enter "03" for English projects. The Spec Year code refers to the name of the master item file that is used to select project items from. The name of the current master item file is "03".
	Unit System	Yes	Select "English" from the dropdown list for all projects.
	Project Type	Yes	Select the appropriate project type from the dropdown list. CCO CONTRACT CHANGE ORDER CONS CONSULTANT LET LET CONTRACT LFA LOCAL FORCE ACCOUNT PBM PERFORMANCE BASED MAINTENANCE
	Project Status	Yes	Select "PSE - PSE Sent to Central Office"
	Project Work Type	Yes	Select the appropriate project work type from the dropdown list. ASPH ASPHALT BRPT BRIDGE PAINTING CONC ROADWAY CONCRETE CURB CURB DRNG DRAINAGE ITEMS ELEC ELECTRICAL EROC EROSION CONTROL ERTH EARTHWORK FENC FENCES GDRL GUARDRAIL GENA SIGNIFICANT ASPHALT MISC MISCELLANEOUS MOBL MOBILIZATION NONL NON LET PROJECT (LFAs) NONR NON-ROADWAY ITEMS PVMK PAVEMENT MARKING RMVB REMOVE BRIDGE RMVL REMOVALS SIGN SIGNS STRC STRUCTURES SURV SURVEY TRFT TRAFFIC CONTROL - TEMPORARY TRFP TRAFFIC CONTROL - PERMANENT
	Urban/Rural	Yes	From FIIPS Location page. Communities with a population greater than 5,000 are considered urban. If the urban area boundary does not match the municipal limits and extends into adjacent towns, use Planning Section Urban Area Maps to confirm urban class limits. If the project contains both urban and rural classifications, note the greater % class and separate the urban from rural at the category level.



	E&C Percent	Yes	Formerly referred to as "Const. Eng. Pct." This is the delivery percent from FIIPS Estimate page. If calculating EC differs from the FIIPS screen, you must alert the planning section so they can change FIIPS. There is no limit on the percentage that can be charged per project, but there is an annual limit of 15 percent for the federal program. The following guidelines should be used for projects in the improvement program: Let contracts under one million dollars and those contracts that contain incentive/disincentive clauses should be evaluated to determine if more than 15 percent should be used. For let contracts over one million dollars, consider the factors affecting engineering and contingencies and, if realistic, use a factor less than 15 percent. Specific attention should be given to those projects in the major highway, interstate highway and high cost bridge programs.
	Estimate Date	Yes	The date the estimate was completed.
	Design Region Office	Yes	Formerly referred to as "Region" Design region office from the plan letter. See FDM 19-10-15 for guidance on the plan letter.
	Vendor Access	Yes	If this is a consultant designed project, staff should select the design firm name from the Vendor Access list.
	Div/Bur	N/A	The Division / Bureau code value (populated by FIIPS).
	Authorized Date	N/A	The project authorization date (populated by FIIPS).
	Anticipated Let Date	N/A	The anticipated LET date (populated by FIIPS).
	Project Code Trim	N/A	The project code trim value (populated by FIIPS).
	Project Code	N/A	The project code value (populated by FIIPS).
	Construction Region Office	Yes	The construction managing office from the plan letter. See FDM 19-10-15 for guidance on plan letters. (Code table: REGOFF)
Counties	County ID	Yes	Select the county from the drop-down list.
	Pct	Yes	The percentage of project length for this county.
	Primary	Yes	Check the "Primary" checkbox if this is the primary OR only county for this project.
Regions	Region ID	Yes	Select the region from the drop-down list.
	Primary	Yes	Check the "Primary" checkbox if this is the primary OR only region associated with this project.
Points	Type	Yes	Select Midpoint.
	Description	Yes	Update if necessary. This should match the Points Type field. Example - Midpoint.
	Latitude and Longitude	Yes	Enter the latitude and longitude values found when searching for the project on iTouchMap, Google Maps or similar mapping tool. Enter the latitude and longitude for the midpoint of the project in the format DDMMSS (ie. 431534)
Road Segments	Name	Yes	The description for the category this road segment represents. The road segment name should match the Category ID plus description. Example: 0010 Roadway Items
	Highway Number	Yes	The highway number without leading zeros. Examples: 10 for USH 10, B for CTH B, 41 for IH 41, Town for local road
	Description	Yes	Previously referred to as "Road Name". The complete highway/roadway name and number/letter. State highway system examples: USH 10, STH 19, IH 90 Local Program use road system followed by highway name - CTH B
	Type	Yes	Formerly referred to as "TYPE OF ROAD". Select a "Type" from the dropdown list of highway types. CS CITY STREET CTH COUNTY TRUNK HIGHWAY I FEDERAL AID INTERSTATE N OBSOLETE NHS NATIONAL HIGHWAY SY (SEL USH'S & STH'S) STH STATE TRUNK HIGHWAY TOWN TOWN ROAD USH UNITED STATES HIGHWAY (NOT NHS)
	Route		The highway name and number without leading zeros. Examples: USH 10, CTH B, IH 41, or the town road name



	Length	Yes	The length of the road segment in miles.
	Width	Yes	The width of the road segment in feet.
	Begin and End Station	Yes	The Begin and End station for the road segment as shown in the project plan sheets. If the project is a divided highway this should be the eastbound lane limits. Enter stationing or log miles by using word "Sta" or "Log Mile" prior to the numeric description. Example: Sta. 11+00 or Log Mile 1.00 In addition, designers may enter the start and end latitude and longitude points.
	Start / End Latitude	No	Enter the latitude and longitude values found when searching for the project on iTouchMap, Google Maps or similar mapping tool. Enter the latitude and longitude using the format DDMMSS (ie. 431534).
	Start / End Longitude	No	Enter the latitude and longitude values found when searching for the project on iTouchMap, Google Maps or similar mapping tool. Enter the latitude and longitude using the format DDMMSS (ie. 431534).
	Category ID	Yes	Category that this road segment represents.
Structure Segments	Bridge ID	Yes	Proposed structure ID, if known. Example: B-23-0136 or C-17-0029
	Description	Yes	The description for the category this bridge or structure is part of.
	Bridge Type	Yes	Select the drop-down list: 01 CONCRETE SLAB ON CONCRETE GIRDER 02 CONC. SLAB ON PRE-STRESSED. GIRDER (TYPE G) 03 CONCRETE BOX GIRDER 04 CONCRETE RIGID FRAME 05 STEEL BOX GIRDER 06 PRESTRESSED CONCRETE BOX CULVERT 07 PRESTRESSED CONCRETE TT GIRDER 08 CONC SLAB ON FABRICATED STEEL GIRDER 09 CONC SLAB ON STEEL BOX GIRDER 10 CONCRETE ON ROLLED I BEAM 11 STEEL DECK ON STEEL GIRDER 12 PRECAST SEGMENTAL BOX GIRDER 13 PEDESTRIAN OR BIKEWAY BRIDGE 14 CONCRETE BOX CULVERT (BRIDGE LENGTH) 15 CONCRETE BOX CULVERT (NOT BRIDGE LENGTH) 16 CONCRETE MASONRY BRIDGE DECK OVERLAY 17 CONCRETE, NOT PRESTRESSED, SLAB 18 PRECAST CONCRETE BOX CULVERT 19 PRECAST PRESTRESSED CONCRETE BOX GIRDER 20 STEEL TIED ARCH 21 CONCRETE, NOT PRESTRESSED, HAUNCHED SLAB
	Length (feet)	Yes	Enter the length in feet only for the structure, not the approach. Length is defined as end of deck to end of deck as shown on the structure plan, top edge of paving notch to top edge of paving notch, or outside to outside of box culvert on the roadway reference line. IT IS VERY IMPORTANT TO ENTER THE CORRECT UNIT OF MEASURE.
	Width (Feet)	Yes	Enter width in feet only for the structure, not the approach. Width is defined as the clear width as shown on the structure plan. IT IS VERY IMPORTANT TO ENTER THE CORRECT UNIT OF MEASURE.
	Number of Spans	Yes	Enter number of spans for a bridge or number of cells for a box culvert
	Start / End Latitude	No	Enter the latitude and longitude values found when searching for the project on iTouchMap, Google Maps or similar mapping tool. Enter the latitude and longitude using the format DDMMSS (ie. 431534).
	Start / End Longitude	No	Enter the latitude and longitude values found when searching for the project on iTouchMap, Google Maps or similar mapping tool. Enter the latitude and longitude using the format DDMMSS (ie. 431534).
	Category ID	Yes	Category that this bridge segment represents.



Category Data Fields

Tab	Field	Required	Description
Categories	Category ID	Yes	Formerly referred to as "Category Number". See FDM 19-5 Exhibit 1.2 for guidance on categories. The standard naming convention for all categories is a 4 digit number that is incremented by 10 (i.e. 0010, 0020, 0030...).
	Combine Like Categories	Yes	Must be checked. Used so that items get rolled up at the project and contract level.
	Section Group	Yes	Formerly referred to as "Proposal Section Number" Automatically defaults to "0001" for new categories. Update if imported from Estimator.
	E & C Percent	Yes	Formerly referred to as "Construction Eng. Pct." By default, the category level E&C Percent will assume the Project Level E&C on project reports. It is not necessary to enter a value at the category level unless it differs from the project level. If the category E&C Percent needs to be different from the Project level E&C Percent, contact your planning section for further guidance and enter the new E&C Percent at the category level.
	Low Cost Flag	No	New system generated field If the value is "Yes", this category contributes to the low cost total in an estimate or bid. If the value is "No", category alternate sets will be used.
	Unit Number	Yes	Automatically defaults to "000" for new categories. Update if imported from Estimator. Used to group categories for Funding Summary report.
	Unit Description	No	Not required.
	Category Description	Yes	Formerly referred to as "Category Descr." Enter the Category Description that appears in FIIPS.
	Category Alternate Set ID	No	Formerly referred to as "Category Alternate Code". Not required. The Category Alternate Set ID is created under the Category Alternate Sets component tab. The ID is then associated with the category on the Categories component tab. This is only required in situations for alternate bidding.
	Category Alternate Member ID	No	Not required. If alternate bidding will be used, this is a required identifier for the category alternate code.
	Life Cycle Cost	No	Not required.
	Category Work Class	Yes	Select the appropriate category work class from the drop down list. BRCN BRIDGE CONSTRUCTION LAND LANDSCAPING MISC MISCELLANEOUS WORK P PLANNING PENG PRELIMINARY ENGINEERING R RESEARCH RDCN ROADWAY CONSTRUCTION SHRM SHRM PROJECT TAM TRAFFIC AND MAINTENANCE UTIL UTILITIES
	Federal Work Category	Yes	Select the appropriate Federal Work Category from the drop down list. Refer to the Federal Work Category table at the end of this Chapter for guidance and a complete list of codes. The Federal Work Category should match the Federal Improvement Type code for the category that is listed in FIIPS.
	Federal Construction Class	Yes	Select the appropriate federal construction class from the dropdown list. LET LET PROJECT ITEMS NLET NON-LET PROJECT ITEMS (LFA, PBM) The class types MUST match in each of the categories. NOTE: The Federal Construction Class must be the same in each category within a project.



Item Fields

Tab	Field	Required	Description
Items	Item ID	Yes	Formerly referred to as "Item Number"
	Project Item Supp Description	Yes, if Supplemental Description Required field = Yes	If required, enter supplemental description in mixed case beginning with a two digit numeric prefix and increment this prefix with each description under the project. Example: 01. Description, 02. Description. See <i>Chapter 5 – Creating an Estimate in Estimator</i> for details.
	Unit of Measure	N/A	Autofilled field based on Item ID chosen
	Quantity	Yes	Enter item quantity. Lump Sum MUST equal 1.
	Project Item Unit Price	Yes	Formerly referred to as "Estimate Price"
	Extended Amount	N/A	Automatically calculated based on Quantity x Project Item Unit Price
	Price Lock Flag	No	Formerly referred to as "Estimate Price Lock" A check box used to prevent the estimated price from being changed by the Generate Bid Based Prices process.
	Low Cost Flag	No	New system generated field. If the value is "Yes", this item contributes to the low cost total in an estimate or bid. If the value is "No", category alternate sets will be used.
	Bid Requirement Code	No	Formerly referred to as "Pre-established price". Fixed = The pre-established price cannot be changed. Maximum = The maximum price that can be bid for this item. Minimum = The minimum price that can be bid for this item. If minimum and maximum prices are used, designers MUST fill in the Project Item Unit Price Comparison field.
	Project Item Unit Price Comparison	No	Required field if the Bid Requirement Code is set to Minimum or Maximum. A minimum or maximum bid amount is required for this item.
	Lump Sum	N/A	Autofill field based on Item ID chosen
	Bid as Lump Sum	N/A	Autofill field based on Item ID chosen
	Category ID	Yes	Select the appropriate category ID for this item.
	Project Item Previous Price	No	Not a required field. This field can be used to record a previous project item price. Used for historical purposes.
	Non-Bid	No	Not a required field.
	Combine with Like Items	Yes	Required field. An indicator that the project item should be combined with like items at the proposal level.
	Item Alternate Set ID	No	Formerly referred to as "Item Alternate Code". Not used at WisDOT at this time.
	Alternate Member ID	No	Not used at WisDOT at this time.
	Estimation Type	Yes	Autofill field that is used to identify the price source for the item.
	Major Item	No	This field is completed by the Plan Reviewers. It is used to note which items should appear on the Advertisement.
	Proposal Item Line Number	N/A	Formerly referred to as "Proposal Line Number". Autofill field.
	Pricing Comments	No	Enter comments for item pricing justification.
	Supplemental Description Required	N/A	This flag denotes if a supplemental description is required.

IMPORTANT NOTES ABOUT ITEMS:

- Items are reordered upon save by item ID and supplemental description within each category. This will also occur when entering multiple like items (e.g. SPV.0060) within the same category.
- The items are renumbered on the estimate after saving item number changes, additions, and deletions.



Federal Work Category

A Federal Work Category is a code used to define the type of work to be accomplished by the bid items in a given estimate category. In this context the term “Federal Work Category” means the same as the term “Federal Work Type.”

Federal Work Categories are organized into a set of federal work type codes shown later in this attachment. To classify types enter the Federal Improvement Type code in the “Federal Work Category” data field on the **Categories** tab. This information is required for all projects. Enter the appropriate Federal Improvement Type code (see below). Selected code should match the Federal Improvement Type code for the category that is listed in FIIPS.

Types of Improvement Codes

Improvement Type	Description
01 - New Construction Roadway	Construction of a new roadway that will not replace an existing roadway. A new roadway will provide: (1) a roadway where none existed, or (2) an additional and alternate roadway to an existing roadway that will remain open and continue to serve through traffic.
03 – Reconstruction - Added Capacity	Construction on approximate alignment of an existing route where the old pavement structure is substantially removed and replaced. Such reconstruction includes widening to provide continuous additional through lane(s), or adding, or revising interchanges, replacing other highway elements such as a grade separation to replace an existing grade intersection. Also included, where necessary are other incidental improvements such as drainage and shoulder improvements.
04 – Reconstruction - No Added Capacity	Construction where the old pavement structure is substantially removed and replaced or significant structural capacity is added. Also includes the addition of auxiliary and turning lanes, reconfiguring interchanges, replacing other highway elements such as a grade separation to replace an existing grade intersection. Also included, where necessary, are other incidental improvements such as drainage and shoulder improvements. May also include widening the lanes and/or shoulders of an existing roadway without adding through lanes.
05 – 4r Maintenance – Resurfacing	Placement of additional surface material, including seal coats, over the existing roadway to improve serviceability or to provide additional strength. There may be some upgrading of unsafe features and other incidental work in conjunction with resurfacing, including culvert replacement. Where surfacing is constructed by separate project as a final stage of construction, the type of improvement should be the same as that of the preceding stage (new route, relocation, reconstruction, minor widening, etc.).
06 – 4r Maintenance – Restoration & Rehabilitation	Work required to return existing pavement (including shoulders) to a condition of adequate structural support or to a condition adequate for placement of an additional stage of construction. There may be some upgrading of unsafe features or other incidental work in conjunction with restoration and rehabilitation. Typical improvements would include rehabilitation of roadway surface; replacing spalled or malfunctioning joints; substantial pavement stabilization prior to resurfacing; grinding/grooving of rigid pavements; replacing deteriorated materials; reworking or strengthening bases or sub-bases, and adding under-drains.
07 – 4r Maintenance Relocation	Construction of a roadway at a new location that replaces an existing roadway. The new roadway carries all the through traffic with the previous facility closed or retained as a land-service road only.
08 – Bridge - New Construction	Construction of a new bridge that does not replace or relocate an existing bridge.
10 - Bridge Replacement	Total replacement of a bridge with a new structure. Includes structures over waterways, land and other roadways. A bridge removed and replaced with a lesser facility is considered a bridge replacement. Incidental roadway approach work is included. The use of this code requires the reporting of the National Bridge Inventory (NBI) structure number in the data field identified Bridge Numbers.



Improvement Type	Description
13 - Bridge Rehabilitation	For the <u>major</u> work required to restore structural integrity of a bridge as well as work necessary to correct major safety defects. Bridge deck replacement (both partial and complete) and widening of bridges including addition of through lanes to specified standards are included. Construction of a dual structure to alleviate a capacity deficiency is also included. The use of this code requires the reporting of the National Bridge Inventory (NBI) structure number in the data field identified Bridge Numbers.
15 - *Preliminary Engineering	For the preparation of plans, specifications, and estimates (PS&E), traffic, and related studies including field inspections, surveys, material testing, and borings.
16 - Right of Way	For purchase of land, improvements and easements, in addition to the cost of moving and relocating buildings, businesses, and persons.
17 - *Construction Engineering	Oversight of construction of roadways, structures, and traffic services facilities including additional design work after construction project is let.
18 - Planning	For Planning related purposes.
19 - Research	For Research related purposes.
21 - Safety	For projects or a significant portion of a project that provides features or devices to enhance safety. Beam guards, pavement marking, and traffic signals are included. For example, expenditures on projects designed to improve the safety of at-grade railroad crossings or for the construction of facilities dedicated to the enforcement of vehicle weight regulations.
22 - Rail/Highway Crossing	Improvements to crossing warning Protective Devices such as signs, markings, and cross bucks; flashing light additions/improvements; and improvements to track circuitry.
23 - Transit	For transit and transit-related purposes.
24 - Traffic Management/ Engineering - HOV	Traffic operation improvements that are designed to reduce traffic congestion and to facilitate the flow of traffic, both people and vehicles, on existing systems, or to conserve motor fuels. Include automated toll collection equipment, road and bridge surveillance and control systems, etc.
25 - Vehicle Weight Enforcement Program	Vehicle Weight Enforcement
26 - Ferry Boats	Ferry Boats
27 - Administration	Administration for National Recreational Trails Projects, Commercial Vehicles, and other similar projects.
28 - *Facilities for Pedestrians and Bicycles	For independent projects (not part of any other Federal-aid Highway project) to construct a facility to accommodate bicycle transportation and pedestrians, including sidewalks.
29 - *Acquisition of Scenic Easements and Scenic or Historic Sites	For projects consisting of easement and fee-simple purchase of sites of historic significance and/or considered worthy of preserving due to their scenic qualities within the view shed of a transportation facility.
30 - *Scenic or Historic Highway Programs	For projects consisting of scenic highway program and implementation activities not included in safety and other related improvements.
31 - *Landscaping and Other Scenic Beautification	For projects involving landscaping and other scenic beautification through planting and related work. This includes vegetation management to assure the sustain ability of landscape areas.
32 - *Historic Preservation	For projects consisting of purchasing and restoring/rehabilitating a building, structure, or facility (other than transportation buildings, structures and facilities) that is directly related to the transportation system.
33 - *Rehab & Operation of Historic Trans Sites	For projects consisting of purchasing & restoring/rehabilitating, and/or operating transportation buildings, structures or facilities considered being of historic significance.
34 - *Preservation of Abandoned Railway Corridors	For projects to preserve an abandoned railway corridor. It is expected that most of these projects will accommodate bicycle and pedestrian use. This code may be used for any railway corridor conversion project including those used by equestrians, skaters, and skiers. Not to be used for National Recreational Trails projects.
35 - *Control & Removal of Outdoor Advertising	For projects to purchase outdoor advertising for permanent removal, to remove illegal outdoor advertising, or to develop an outdoor advertising control plan.
36 - *Archaeological Planning & Research	For projects involving the identification, evaluation, planning, and/or research of historic or archaeological planning and research under Transportation Enhancements.
37 - *Mitigation of Water Pollution due to Highway Runoff	Mitigation of Water Pollution due to Highway Runoff.



Improvement Type	Description
38 - *Safety and Education for Pedestrian/Bicyclists	Safety and Education for Pedestrians and Bicyclists
39 - *Establishment of Transportation Museums	Establishment of Transportation Museums
40 - *Special Bridge	Includes low water crossing replacement, application of calcium magnesium acetate, sodium acetate/formate, or other environmentally acceptable, minimally corrosive anti-icing and deicing compositions, and other eligible bridge projects not covered by another type of improvement code. Does not require an NBI structure number in the data field identified Bridge Numbers.
41 - *Youth Conservation Service	Youth Conservation Service
42 - Training	Training; Supportive Services; TRAC; On the Job Training
43 - Utilities	Utilities including lighting, sewer and water mains, and utility relocations (poles, lines, etc.).
44 - Other	Miscellaneous work such as National Recreational Trails construction, noise barriers, etc.
45 - Debt Service	Interest payments and retirement of principal under an eligible bond issue (including capitalized interest) and any other cost incidental to the sale of an eligible bond issue (including issuance costs, insurance or other credit enhancement fees, and other bond-related costs as determined).
48 - Bridge Protection	Includes scour countermeasures, seismic retrofits, impact protection measures, security countermeasures, and protection against extreme events.
49 - Bridge Inspection and Bridge Related Training	Bridge inspection and evaluation activities, including in-depth and special inspections. Bridge inspection related training.
50 - New Tunnel	Construction of a new tunnel that does not replace or relocate an existing tunnel.
51 - Tunnel Replacement	Total replacement of a tunnel with a new structure constructed with additional lanes in the same general traffic corridor.
52 - Tunnel Rehabilitation	For the work required to restore structural integrity of a tunnel, as well as, work necessary to correct major safety defects.
53 - Tunnel Preservation	Activities that prevent, delay, or reduce deterioration of tunnels or tunnel elements, restore the function of existing tunnels, keep tunnels in good condition, and extend their life.
54 - Tunnel Protection	Includes impact protection measures, security countermeasures, and protection against extreme events.
55 - Tunnel Inspection and Tunnel Related Training	Tunnel inspection and evaluation, including in-depth and other inspections. Tunnel inspection related training.
56 – Other Asset Inspection	Inspection and evaluation of infrastructure assets other than bridges or tunnels, including signs and sign-structures, earth retaining walls and drainage structures. Inspections related training for signs and sign-structure, earth retaining walls and drainage structures.
57 - Safety Non-Infrastructure	A project contributing to a reduction in fatalities and serious injuries on all public roads and the achievement of State safety targets that either adds to existing successful non-infrastructure programs (but not replace existing funding sources), or is used for new and proven activities as determined by data-supported means.
58 – Freight	Freight related items.

* Transportation Enhancement Projects (funded with federal appropriations 33B0, Q220, or H220) can only use these Types of Improvement.



Pre-Established Price Items

Be sure to insert the pre-established price for these items in your AASHTOWare Project Estimates. Missing this step causes addenda. Also check that the “Fixed” Bid Requirement Code value is selected on the item detail screen.

ITEMS REQUIRING PRE-ESTABLISHED PRICES:

108.3100.S	Incentive/Disincentive for Interim Completion of Work (Establish pre-determined cost per day)	
715.0415	Incentive Strength Concrete Pavement -----	\$1.00
440.4410	Incentive IRI Ride-----	\$1.00
440.5020	Incentive IRI Ride Bridge -----	\$1.00
460.2000	Incentive Density HMA Pavement -----	\$1.00
460.2010	Incentive Air Voids HMA Pavement -----	\$1.00
715.0502	Incentive Strength Concrete Structures -----	\$1.00
ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR -----	\$5.00
ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR -----	\$5.00



Preliminary Detail Cost Estimate



**Wisconsin Department of Transportation
Detail Cost Estimate**

Project ID: 1234-15-01T1
Project Description: Holmes Road, Town Of Gibson East Twin River Bridge And Approaches
Spec Book: 03
Date Printed: 9/19/2016
Federal Project Number: WISC 12345
State Project Number:



Wisconsin Department of Transportation

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Detail Estimate Cost Summary

Page 1 of 1

Project ID:1234-15-01T1 **Project Description:** Holmes Road, Town Of Gibson East Twin River Bridge And Approaches

Fund Package	Total Fund Package Cost	E&C Amount	Total	Funding Limit	Funding
Fund STATE					
Package 0010	281,739.10	42,260.87	323,999.97		323,999.97
Package 0020	91,378.17	13,706.73	105,084.90		105,084.90
Fund STATE	Totals	\$373,117.27	\$55,967.60	\$429,084.87	\$429,084.87
Fund VIL					
Package 0020	21,739.13	3,260.87	25,000.00	25,000.00	25,000.00
Fund VIL	Totals	\$21,739.13	\$3,260.87	\$25,000.00	\$25,000.00
Fund FED					
Package 0020	365,512.70	54,826.90	420,339.60		420,339.60
Fund FED	Totals	\$365,512.70	\$54,826.90	\$420,339.60	\$420,339.60
Project Total 1234-15-01T1		\$760,369.10	\$114,055.37	\$874,424.47	\$874,424.47





Detail Cost Estimate

Project ID: 1234-15-01T1

Federal Project No.: WISC 12345

Contract ID: 20160622001

Project Description: Holmes Road, Town Of Gibson East Twin River Bridge And Approaches

Category: 0010 Roadway Items

Funding Source(s) and Participation: 1 STATE State Funding 100.00% 0.00

Construction Type: 03 Reconstruction - Added Capacity

Work Classification: RDCN Roadway Construction Category Length: 5.3000 MILES

Construction Class: LET Let Project Items Category Width: 120.0000 FEET

Line No.	Item Number	Item Description	Units	Estimated Qty	Unit Price	Amount
0010	205.0400	Excavation Marsh	CY	98.000	9.70000	950.60
0020	208.0100	Borrow 04. Outlets Festoon	CY	2,409.000	7.50000	18,067.50
0030	213.0100	Finishing Roadway (project) 02. 1234-15-01	EACH	1.000	25,000.00000	25,000.00
0040	305.0110	Base Aggregate Dense 3/4-Inch 02. 1234-03-71	TON	2,390.000	13.90000	33,221.00
0050	455.0105	Asphaltic Material PG58-28 addenda item added	TON	2,500.000	75.00000	187,500.00
0060	619.1000	Mobilization	EACH	0.500	34,000.00000	17,000.00
Category Total:						\$281,739.10
Eng & Contg:						\$42,260.87
Total:						\$323,999.97



Detail Cost Estimate

Project ID: 1234-15-01T1

Federal Project No.: WISC 12345

Contract ID: 20160622001

Project Description: Holmes Road, Town Of Gibson East Twin River Bridge And Approaches

Category: 0020 Structure Items

Funding Source(s) and Participation: 1 VIL Village of Casco 100.00% 25000.00
2 FED Federal Funding 80.00% 0.00
2 STATE State Funding 20.00% 0.00

Construction Type: 03 Reconstruction - Added Capacity

Work Classification: BRCN Bridge Construction Category Length: 0.0104 MILES

Construction Class: LET Let Project Items Category Width: 45.0000 FEET

Line No.	Item Number	Item Description	Units	Estimated Qty	Unit Price	Amount
0070	203.0200	Removing Old Structure (station) 05. 10+05 RT	LS	1.000	193,000.00000	193,000.00
0080	203.0200	Removing Old Structure (station) 06. 10+40 RT	LS	1.000	27,450.00000	27,450.00
0090	210.0100	Backfill Structure	CY	370.000	21.50000	7,955.00
0100	502.0100	Concrete Masonry Bridges	CY	475.000	491.00000	233,225.00
0110	619.1000	Mobilization	EACH	0.500	34,000.00000	17,000.00
Category Total:						\$478,630.00
Eng & Contg:						\$71,794.50
Total:						\$550,424.50
Project Total:						\$760,369.10
Estimate Total:						\$760,369.10





Detail Estimate Funding Summary

Project ID: 1234-15-01T1 Project Description: Holmes Road, Town Of Gibson East Twin River Bridge And Approaches

Category	Cost	E&C Percent	E&C Amount	Total	Funding Package	Fund	Funding Amount
0020 Structure Items							
	478,630.00	15.00 %	71,794.50	550,424.50	0020	FED	420,339.60
					0020	STATE	105,084.90
					0020	VIL	25,000.00
Total For Category							\$550,424.50
0010 Roadway Items							
	281,739.10	15.00 %	42,260.87	323,999.97	0010	STATE	323,999.97
Total For Category							\$323,999.97
Project Total							\$874,424.47



Detail Estimate Funding Summary By Fund

Project ID: 1234-15-01T1 Project Description: Holmes Road, Town Of Gibson East Twin River Bridge And Approaches

Fund ID	Category ID	Cost	E&C Amount	Total	Funding Amount
Fund ID: STATE	Fund Desc:				
Category ID: 0010	Category Desc: Roadway Items	281,739.10	42,260.87	323,999.97	323,999.97
Category ID: 0020	Category Desc: Structure Items	91,378.17	13,706.73	105,084.90	105,084.90
Fund STATE		Total	\$373,117.27	\$55,967.60	\$429,084.87
Fund ID: VIL	Fund Desc:				
Category ID: 0020	Category Desc: Structure Items	21,739.13	3,260.87	25,000.00	25,000.00
Fund VIL		Total	\$21,739.13	\$3,260.87	\$25,000.00
Fund ID: FED	Fund Desc:				
Category ID: 0020	Category Desc: Structure Items	365,512.70	54,826.90	420,339.60	420,339.60
Fund FED		Total	\$365,512.70	\$54,826.90	\$420,339.60
Project Total					\$874,424.47





Detail Estimate Funding Summary By Unit

Project ID: 1234-15-01T1

Project Description: Holmes Road, Town Of Gibson East Twin River Bridge And Approaches

Unit	Cost	E&C Amount	Total	Funding Amount
Fund ID: STATE		Fund Desc.:		
None	373,117.27	55,967.60	429,084.87	429,084.87
Fund STATE Totals		\$373,117.27	\$55,967.60	\$429,084.87
Fund ID: VIL		Fund Desc.:		
None	21,739.13	3,260.87	25,000.00	25,000.00
Fund VIL Totals		\$21,739.13	\$3,260.87	\$25,000.00
Fund ID: FED		Fund Desc.:		
None	365,512.70	54,826.90	420,339.60	420,339.60
Fund FED Totals		\$365,512.70	\$54,826.90	\$420,339.60
Project Total 1234-15-01T1	\$760,369.10	\$114,055.37	\$874,424.47	\$874,424.47

