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# Item Trend Lookup and Adjustment of Unit Prices

iPDWeb Cost Estimating Manual  
Chapter 6C-1

## Bid Items

Originally Issued: 08-16-2019

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After the bid item list has been created (see **Chapter 6A-1 Adding Bid Items**) the bid items are ready to have pricing assigned. IPDWeb has been created with a tool that performs an analysis based on filtered data and provides a suggested price for the user to evaluate. These filters are initially assigned by the software and in most cases will provide sufficient data samples to allow for reasonable prices to be generated. The user can also manually adjust these filters to generate pricing when the software returns insufficient data samples or when the pricing needs to be fine-tuned.

When working with individual item filters it is important to understand the how the Estimate Trend Filter functions (see chapter 5 Trend Filters) in order to avoid the possibility of losing the work previously done on bid item filters when adjusting the Estimate Trend Filter. Notes and documents can also be added to each bid item providing documentation of the bid item process. This documentation is extremely important when the adjustments made to items have a significant impact on the estimate total. It allows for others reviewing the estimate to easily understand the thought process and decisions that were used when building the estimate. The following chapter explains how to use the Item Trend Lookup, and the process for generating pricing for bid items.

This chapter contains the following sections:

[Item Trend Lookup Screen: Layout Detail Description](#) General layout details and descriptions.

[Item Trend Lookup: Analysis of Data:](#) How to analyze the data using the Item Trend Lookup

[Roadway Example:](#) Example showing price analysis of a roadway item

[Bridge Example:](#) Example showing price analysis of a bridge item

[Manual Adjustment of Unit Price:](#) Example showing how to manually adjust unit price and provide documentation explaining the reason for the changes.

[Non-Standard Bid Items:](#) Explanation of Non-Standard Bid Items

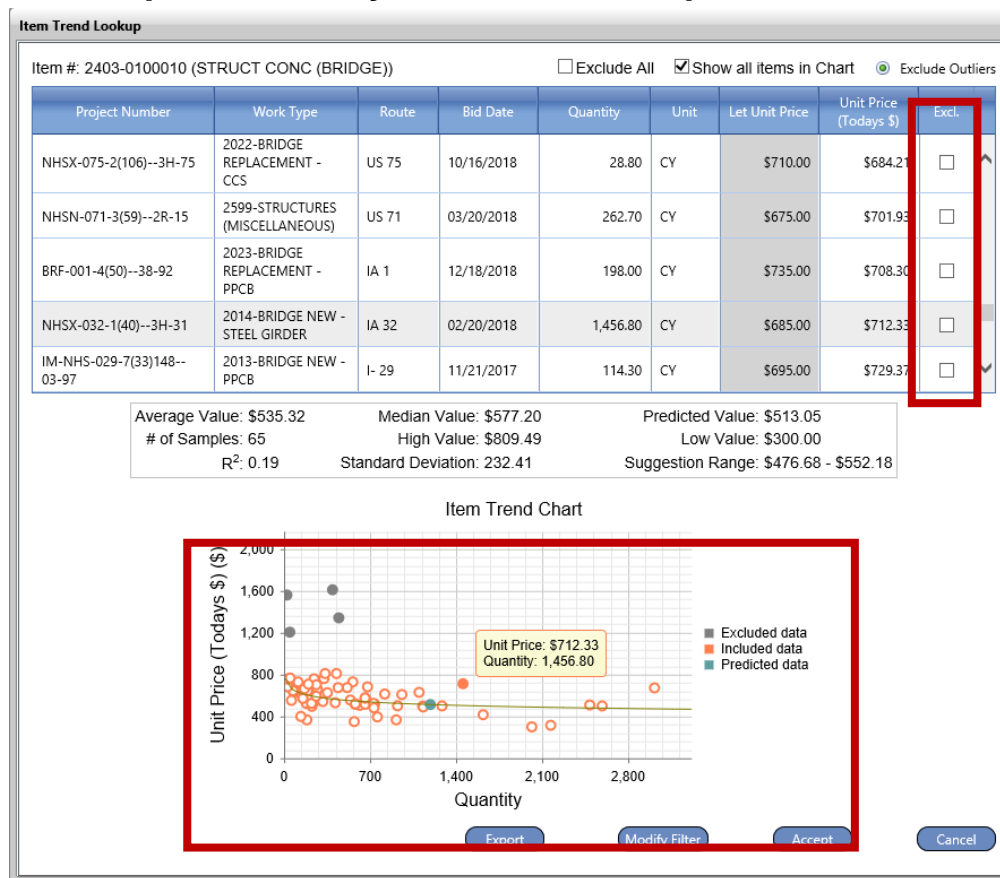
[Lump Sum Items:](#) Explanation of Lump Sum Items

To access the Item Trend Lookup, select the desired item and right click then select the Item Trend Lookup

Item Number	Description	UOM	Quantity	Unit Price
2102-2710070	EXCAVATION, CL 10, RDWY		5,000.00	
2505-6000121	HIGH TENSION CABLE END A		4,000	

Add Item(s)  
 Delete Item(s)  
 Copy Item(s)  
 Item Trend Filter  
 Item Trend Lookup

## Item Trend Lookup Screen: Layout Detail Description



The “**Item Trend Chart**” displays the bid item information for each filtered project that was used in the regression analysis. The orange and grey dots represent a “sample” project data point. The **orange dots** are data points included in the regression analysis. The **grey dots** are outliers which are more than two standard deviations from the average price and have been automatically excluded from the regression analysis.

**Selecting an orange or grey dot with a single click** will highlight the applicable project in the table. **Double clicking on an orange dot** will exclude that item turning it grey and vice versa for a grey item. Items can also be excluded by **marking the excluded box** in the table above.

**Item Trend Lookup**

Item #: 2403-0100010 (STRUCT CONC (BRIDGE)) ☐ Exclude All ☒ Show all items in Chart ☒ Exclude Outliers

Project Number	Work Type	Route	Bid Date	Quantity	Unit	Let Unit Price	Unit Price (Today's \$)	Excl.
BRF-004-6(28)--38-32	2022-BRIDGE REPLACEMENT - CCS	IA 4	10/16/2018	334.60	CY	\$840.00	\$809.49	<input type="checkbox"/>
BRF-004-6(29)--38-32	2022-BRIDGE REPLACEMENT - CCS	IA 4	10/16/2018	426.90	CY	\$840.00	\$809.49	<input type="checkbox"/>
BRF-001-5(106)--38-52	2022-BRIDGE REPLACEMENT - CCS	IA 1	10/16/2018	46.50	CY	\$1,250.00	\$1,204.59	<input checked="" type="checkbox"/>
BRFN-052-1(97)--39-49	2023-BRIDGE REPLACEMENT - PPCB	US 52	07/18/2017	445.70	CY	\$1,300.00	\$1,341.52	<input checked="" type="checkbox"/>

Average Value: \$535.32      Median Value: \$577.20      Predicted Value: \$513.05

# of Samples: 65      High Value: \$809.49      Low Value: \$300.00

R<sup>2</sup>: 0.19      Standard Deviation: 232.41      Suggestion Range: \$476.68 - \$552.18

The top portion of the screen provides a table with project information and the data points that were included on the analysis chart. Projects can be individually excluded from the data analysis by **clicking on the box in the exclude column or globally excluded by checking the exclude all box at the top**. The information in the chart can be sorted in ascending or descending order by **clicking on the header**. This table also shows the let data and the let unit price. The column labeled **Unit Price (Today's \$)** shows the adjusted unit price in current dollars. **NOTE:** The unit price has already been modified for inflation and the Construction Cost Index (CCI) so no additional adjustments to the unit price are needed. This can cause the current unit price to be higher or lower than the let unit price. It is a good practice to review the Let Unit Price and Unit Price (Today's \$) when analyzing the price of a bid item. In rare occurrences the CCI calculation can cause the Today \$ unit price to be significantly higher or lower than the let unit price. This can occur to the pricing for recently let projects after the CCI has been updated in the system. When this occurs it is best to analyze the

**Item Trend Lookup**

Item #: 2403-0100010 (STRUCT CONC (BRIDGE)) ☐ Exclude All ☒ Show all items in Chart ☒ Exclude Outliers

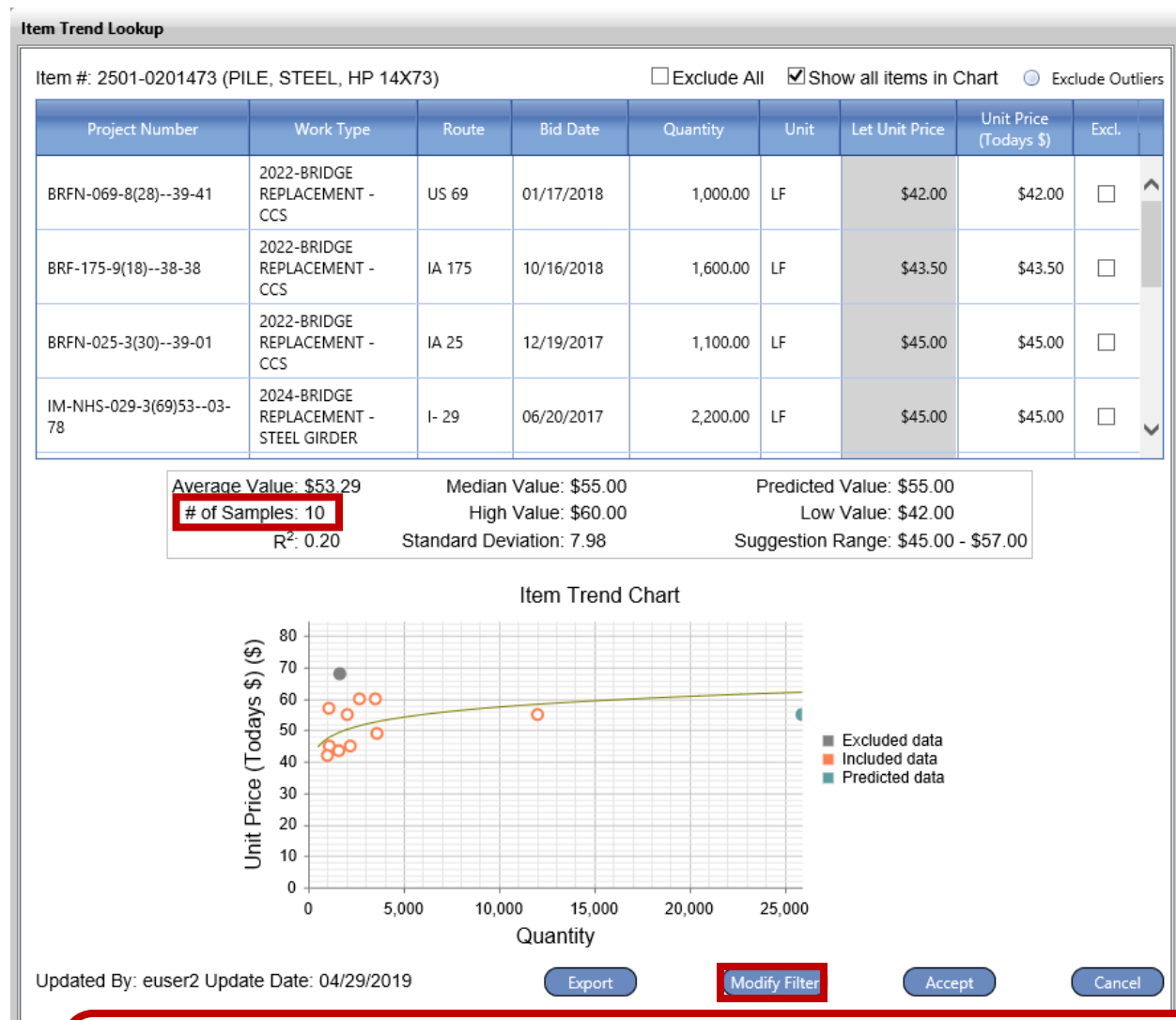
Project Number	Work Type	Route	Bid Date	Quantity	Unit	Let Unit Price	Unit Price (Today's \$)	Excl.
BRF-004-6(28)--38-32	2022-BRIDGE REPLACEMENT - CCS	IA 4	10/16/2018	334.60	CY	\$840.00	\$809.49	<input type="checkbox"/>
BRF-004-6(29)--38-32	2022-BRIDGE REPLACEMENT - CCS	IA 4	10/16/2018	426.90	CY	\$840.00	\$809.49	<input type="checkbox"/>
BRF-001-5(106)--38-52	2022-BRIDGE REPLACEMENT - CCS	IA 1	10/16/2018	46.50	CY	\$1,250.00	\$1,204.59	<input checked="" type="checkbox"/>
BRFN-052-1(97)--39-49	2023-BRIDGE REPLACEMENT - PPCB	US 52	07/18/2017	445.70	CY	\$1,300.00	\$1,341.52	<input checked="" type="checkbox"/>

Average Value: \$535.32      Median Value: \$577.20      Predicted Value: \$513.05  
 # of Samples: 65      High Value: \$809.49      Low Value: \$300.00  
 R<sup>2</sup>: 0.19      Standard Deviation: 232.41      Suggestion Range: \$476.68 - \$552.18

Item Trend Chart

The center section of the screen has information on the calculations of the data. This includes basic analysis data such as the number of samples, weighted average, median, high and low prices from the compiled data. The R<sup>2</sup> value shows how well the calculated curve fits the data points shown in the graph and ranges from 0 to 1. The closer to 1, the more data falls on or near the calculated curve and the better the regression. The "Suggestion Range" is a 95 percent prediction interval for a new value of a quantity. The range of values shown in the Suggestion Range also affects the R<sup>2</sup> value. As the R<sup>2</sup> moves

## Item Trend Lookup: Analysis of Data



For this scenario, we are looking at item 2501-0201473 (PILE, STEEL, HP 14X73) which is one of the identified bid items containing 83% of the cost for this estimate. This bid item only has 10 samples. Increasing the number of samples will help to provide a better predicted value. This can be done by adjusting the bid item filters. To do this **left click on the “Modify Filter” button.**

**Item Trend Lookup**

Main Locations Work Type Estimate Parameters

**Item Trend Lookup Filter**

Item Number: 2501-0201473

\* Begin Date: 4/26/2017 \* End Date: 4/26/2019

Min bidders per contract: Max bidders per contract:

Min Item Price: Max Item Price:

Min Item Quantity: Max Item Quantity:

Project Delivered By: DOT

☐ All bidders ☒ Awarded bidders ☐ Top three bidders

Season of Letting:

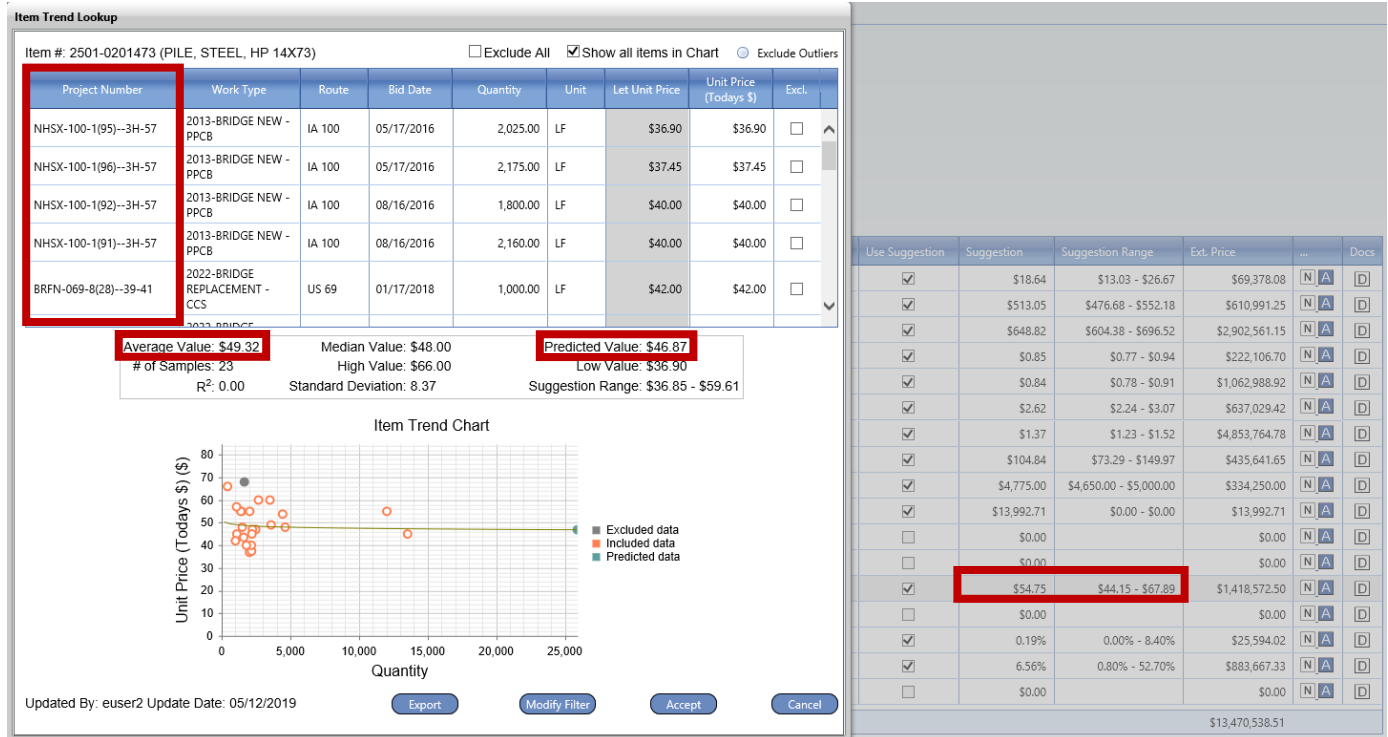
Unassigned: FALL (SEP21-DEC20) SPRING (MAR21-JUN20) SUMMER (JUN21-SEP20) WINTER (DEC21-MAR20)

Assigned:

Apply Filter to Division Reset to Estimate Filter **Lookup** Close

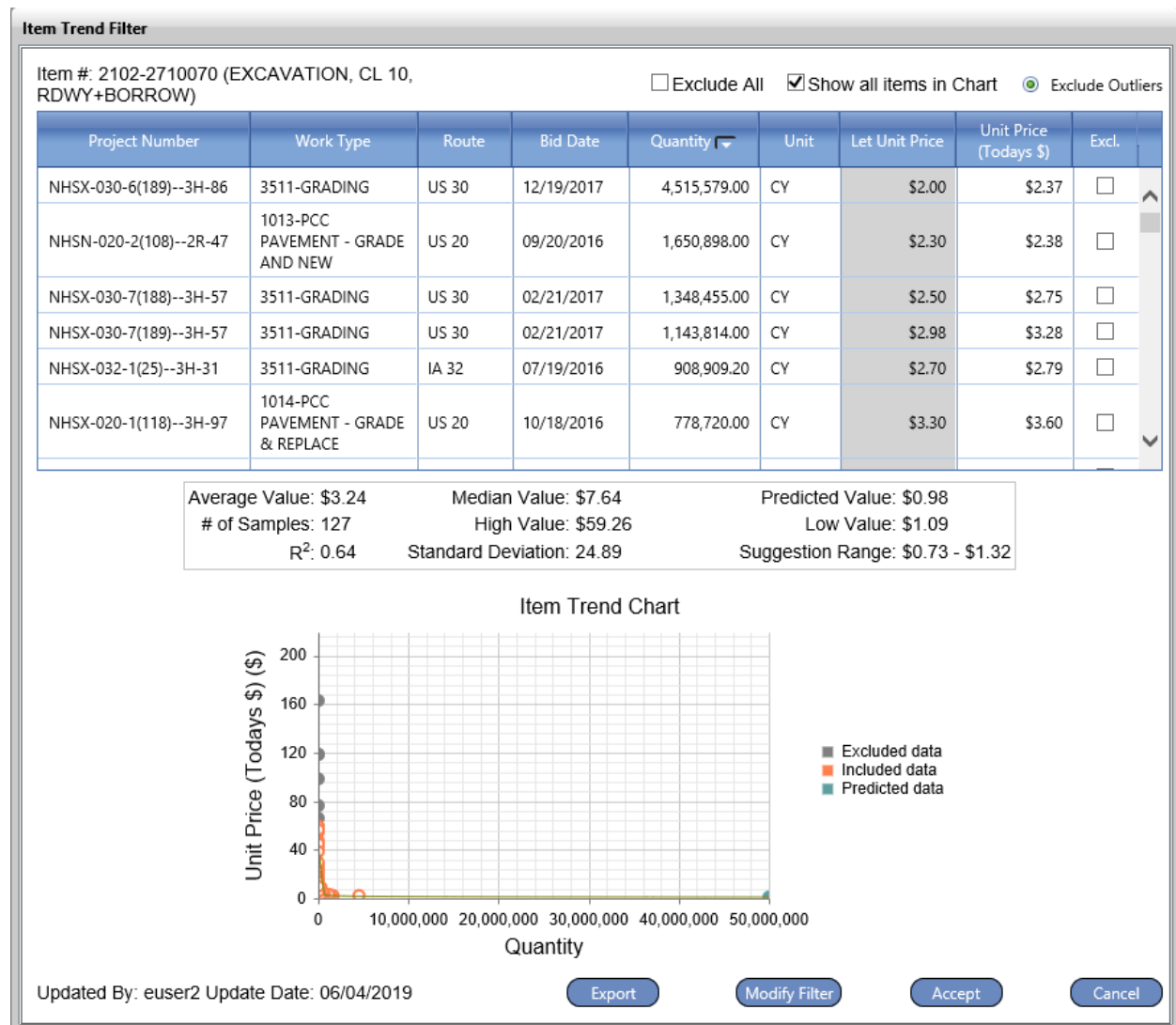
This will open the Item Trend Lookup screen. This screen is the same as the Estimate Trend Filter except any changes made will only affect the current bid item that has been selected. The quickest way to include more samples into the pricing calculation is to expand the "Begin Date" found in the Main tab. This can easily be done by adjusting the date back by 1 year in the Begin Date Box.

**NOTE:** The software assigns the End Date based on the date the estimate was created in the software and the Begin Date is set to 2 years ahead the End Date. Once this change has been made, **click on the Lookup button** to go back to the Item Trend Lookup screen.



The Item Trend Lookup screen will re-appear showing the new samples and price analysis. The samples were increased from 10 to 23 and the new Predicted Value of \$46.87 is shown. The previous Suggested Price and Suggestion Range can still be referenced on the main screen for comparison. If sufficient data samples were not generated it would be necessary to enter into the Modify Filter screen again and further adjust the Begin Date. As shown in this example 23 samples have been generated and will now allow for the data and price to be analyzed further.

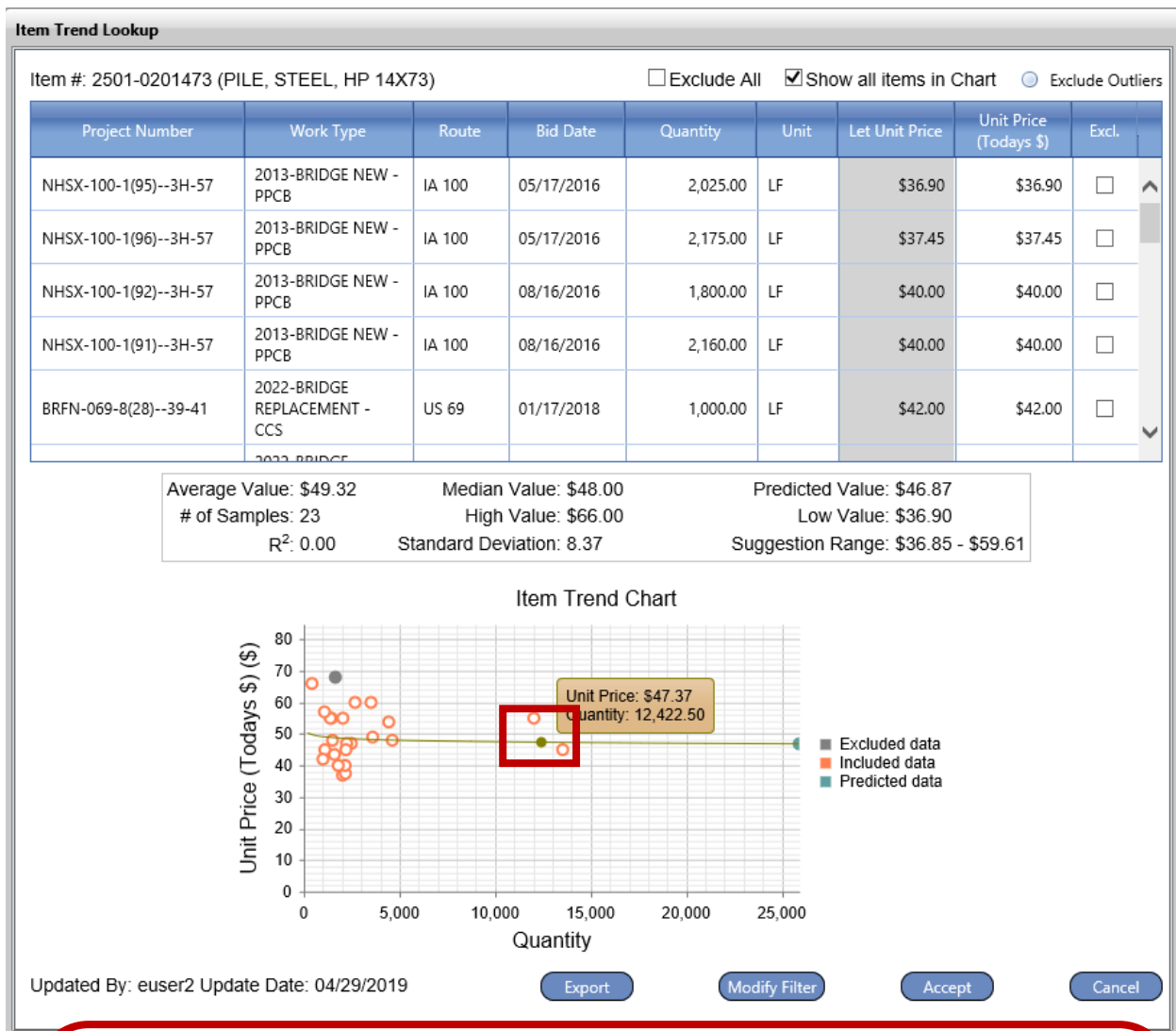
## Roadway Example



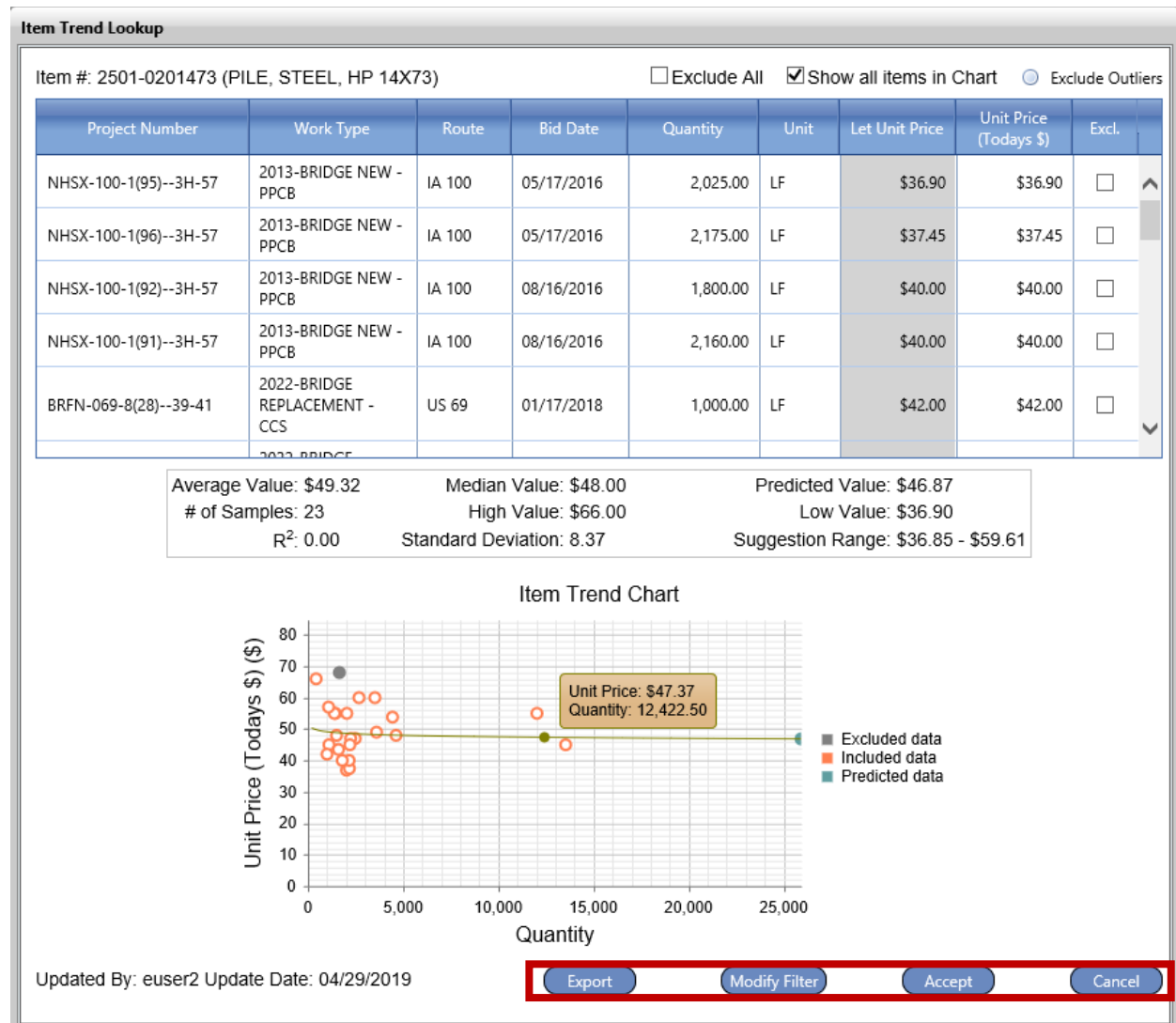
In certain scenarios the quantity may be extremely greater than any previous project totals and special care will need to be taken during the price analysis. In this scenario we have an Excavation Class 10 bid item with a quantity of 50,000,000 CY. This quantity is extremely higher than any past projects. The regression curve will continue to slope down towards zero and the software will then place the data point on the regression curve at the quantity of 50,000,000. This causes the predicted value to be \$0.98 per CY which is unrealistic for earthwork and will need to be further analyzed. When reviewing the price it is best to filter by the quantity and look at pricing for the projects with higher quantities. In this scenario we can see highest quantity projects range from \$2.00 to \$2.98. Using this information and estimator experience the price will need to be manually changed in the division bid item screen (see [Manual Adjustment of Unit Price](#)).



## Bridge Example



As shown in the graph above, the software has assigned a predicted value based on the regression curve, however there are not any previous samples that are close to the quantity for this bid item. In this situation the regression line is continuing to project outwards at a steady decrease until arriving at the bid item quantity. When this happens it is best to analyze the move the predicted value back to the nearest data points and then analyze the project data as well as the Average Value and Median Value. Pricing can vary for many reasons which can include project phasing, limited work space, or accelerated schedules. This information can be found through researching the plans of the data points shown or through estimator experience.



Once analysis of the pricing is complete, the data from the analysis can be exported to excel by **clicking on the “Export”** button. **Clicking on “Accept”** will update the estimate with updated pricing analysis shown in the Item Trend Chart. **Clicking on “Cancel”** will close the Item Trend Lookup and return the estimate using the original suggested price. **NOTE:** Clicking on Cancel will not reset any changes to the filters or the updated pricing analysis shown on the Item Trend Chart. This can be done by **clicking on “Modify Filter”** and returning to the filters screen.

**Item Trend Lookup**

Main Locations Work Type Estimate Parameters

### Item Trend Lookup Filter

Item Number: 2501-0201473

\* Begin Date: 4/26/2016 \* End Date: 4/26/2019

Min bidders per contract: Max bidders per contract:

Min Item Price: Max Item Price:

Min Item Quantity: Max Item Quantity:

Project Delivered By: DOT

☐ All bidders ☒ Awarded bidders ☐ Top three bidders

Season of Letting:

Unassigned:

FALL (SEP21-DEC20)

SPRING (MAR21-JUN20)

SUMMER (JUN21-SEP20)

WINTER (DEC21-MAR20)

Assigned:

Apply Filter to Division Reset to Estimate Filter Lookup Close

Once at the modify filter screen, **click on the “Reset to Estimate Filter”**. This will change all filters for this bid item back to the original filters that were setup using the Estimate Trend Filter.

**Reset Filter**

You are about to overwrite existing filters. Check all the TABS after the import for new filters. Are you sure you want to continue?

**OK** Cancel

A warning screen will appear with a warning that all filters will be reset and to review the modify filters tabs #1 to see the changes. **Select “OK”** to continue.

**Item Trend Lookup**

Main Locations Work Type Estimate Parameters

**Item Trend Lookup Filter**

Item Number: 2501-0201473

\* Begin Date: 4/26/2016 \* End Date: 4/26/2019

Min bidders per contract: Max bidders per contract:

Min Item Price: Max Item Price:

Min Item Quantity: Max Item Quantity:

Project Delivered By: DOT

☐ All bidders ☒ Awarded bidders ☐ Top three bidders

Season of Letting:

Unassigned: Assigned:

FALL (SEP21-DEC20)

SPRING (MAR21-JUN20)

SUMMER (JUN21-SEP20)

WINTER (DEC21-MAR20)

Apply Filter to Division Reset to Estimate Filter Lookup Close

Review the filter tabs to see changes that were made then **click on Lookup** to re-run the price analysis with the new filters.



**NOTE:** It is also possible to override the estimate trend filter for the entire division by clicking **Apply Filter to Division** button. Extreme care should be used when using this button as all individual bid item data will be lost for all bid items in the estimate.

Division Header											
Name: 1520 78-Pottavattamie		Report									
Description: Design No. 1520:											
Alternate:		Alternate Name:									
Design County:		Use Suggestion: <input checked="" type="checkbox"/> Update Suggested Price 04/26/2019									
Use Division Total: <input checked="" type="checkbox"/>		Use Project Total: <input type="checkbox"/> Use Office Total: <input type="checkbox"/>									
Group by Level One: <input type="checkbox"/> Group by Level Two: <input type="checkbox"/>		Current Total: <b>\$13,251,588.59</b> Previous Total: <b>\$10,470,538.51</b>									
Item Number	Description	UOM	Quantity	Unit Price	Use Suggestion	Suggestion	Suggestion Range	Est. Price			Docs
2402-2720000	EXCAVATION, CL 20	CY	3,722.000	\$18.64	<input checked="" type="checkbox"/>	\$18.64	\$13.03 - \$26.67	\$69,378.08	N	A	D
2403-0100010	STRUCT CONC (BRIDGE)	CY	1,190.900	\$513.05	<input checked="" type="checkbox"/>	\$513.05	\$476.68 - \$552.18	\$610,991.25	N	A	D
2403-7000210	HIGH PERFORMANCE STRUC CONC	CY	4,473.600	\$648.82	<input checked="" type="checkbox"/>	\$648.82	\$604.38 - \$696.52	\$2,902,561.15	N	A	D
2404-7775000	REINFORC STEEL	LB	261,302.000	\$0.85	<input checked="" type="checkbox"/>	\$0.85	\$0.77 - \$0.94	\$222,106.70	N	A	D
2404-7775005	REINFORC STEEL EPOXY COATED	LB	1,265,463.000	\$0.84	<input checked="" type="checkbox"/>	\$0.84	\$0.78 - \$0.91	\$1,062,988.92	N	A	D
2404-7775009	REINP STEEL STAINLESS STEEL	LB	243,141.000	\$2.62	<input checked="" type="checkbox"/>	\$2.62	\$2.24 - \$3.07	\$637,029.42	N	A	D
2408-7800000	STRUCTURAL STEEL	LB	3,542,894.00	\$1.37	<input checked="" type="checkbox"/>	\$1.37	\$1.22 - \$1.54	\$4,853,764.78	N	A	D
2414-6424119	CONC BARRIER RAIL, AESTHETIC	LF	4,155.300	\$104.84	<input checked="" type="checkbox"/>	\$104.84	\$73.29 - \$149.97	\$435,641.65	N	A	D
2434-0000100	DISC BEARING ASSEMBLIES	EA	70.000	\$4,775.00	<input checked="" type="checkbox"/>	\$4,775.00	\$4,650.00 - \$5,000.00	\$334,250.00	N	A	D
2499-2300001	DECK DRAIN	LS	1.000	\$13,992.71	<input checked="" type="checkbox"/>	\$13,992.71	\$0.00 - \$0.00	\$13,992.71	N	A	D
2501-0201473	PILE, STEEL, HP 14X73	LF	25,910.00	\$46.87	<input checked="" type="checkbox"/>	\$46.87	\$36.85 - \$59.61	\$1,214,401.70	N	A	D
2501-8400172	TEMP SHORING	LS	1.000	\$0.00	<input type="checkbox"/>	\$0.00		\$0.00	N	A	D
2526-8285000								\$25,178.02	N	A	D
2533-4980000								\$9,304.21	N	A	D
2599-9999000								\$0.00	N	A	D

The updated pricing will be shown in the "Suggestion" and "Suggestion Range" column. The unit price in the "Suggestion" column will now show as red. This is to show that the bid item filter was modified from the original estimate trend filter. Orange colored unit pricing is displayed when data samples in the lookup were manually excluded or included into the unit price calculation. This pricing will always override to red when a bid item has modified filters and manual data point changes.

## Manual Adjustment of Unit Price

Division Header											
Name: 1520 78-Pottavattamie		Report									
Description: Design No. 1520:											
Alternate:		Alternate Name:									
Design County:		Use Suggestion: <input checked="" type="checkbox"/> Update Suggested Price 04/26/2019									
Use Division Total: <input checked="" type="checkbox"/>		Use Project Total: <input type="checkbox"/> Use Office Total: <input type="checkbox"/>									
Group by Level One: <input type="checkbox"/> Group by Level Two: <input type="checkbox"/>		Current Total: <b>\$13,386,342.80</b> Previous Total: <b>\$13,251,588.59</b>									
Item Number	Description	UOM	Quantity	Unit Price	Use Suggestion	Suggestion	Suggestion Range	Est. Price			Docs
2402-2720000	EXCAVATION, CL 20	CY	3,722.000	\$18.64	<input checked="" type="checkbox"/>	\$18.64	\$13.03 - \$26.67	\$69,378.08	N	A	D
2403-0100010	STRUCT CONC (BRIDGE)	CY	1,190.900	\$513.05	<input checked="" type="checkbox"/>	\$513.05	\$476.68 - \$552.18	\$610,991.25	N	A	D
2403-7000210	HIGH PERFORMANCE STRUC CONC	CY	4,473.600	\$648.82	<input checked="" type="checkbox"/>	\$648.82	\$604.38 - \$696.52	\$2,902,561.15	N	A	D
2404-7775000	REINFORC STEEL	LB	261,302.000	\$0.85	<input checked="" type="checkbox"/>	\$0.85	\$0.77 - \$0.94	\$222,106.70	N	A	D
2404-7775005	REINFORC STEEL EPOXY COATED	LB	1,265,463.000	\$0.84	<input checked="" type="checkbox"/>	\$0.84	\$0.78 - \$0.91	\$1,062,988.92	N	A	D
2404-7775009	REINP STEEL STAINLESS STEEL	LB	243,141.000	\$2.62	<input checked="" type="checkbox"/>	\$2.62	\$2.24 - \$3.07	\$637,029.42	N	A	D
2408-7800000	STRUCTURAL STEEL	LB	3,542,894.00	\$1.37	<input checked="" type="checkbox"/>	\$1.37	\$1.22 - \$1.54	\$4,853,764.78	N	A	D
2414-6424119	CONC BARRIER RAIL, AESTHETIC	LF	4,155.300	\$104.84	<input checked="" type="checkbox"/>	\$104.84	\$73.29 - \$149.97	\$435,641.65	N	A	D
2434-0000100	DISC BEARING ASSEMBLIES	EA	70.000	\$4,775.00	<input checked="" type="checkbox"/>	\$4,775.00	\$4,650.00 - \$5,000.00	\$334,250.00	N	A	D
2499-2300001	DECK DRAIN	LS	1.000	\$13,992.71	<input checked="" type="checkbox"/>	\$13,992.71	\$0.00 - \$0.00	\$13,992.71	N	A	D
2501-0201473	PILE, STEEL, HP 14X73	LF	25,910.00	\$51.00	<input type="checkbox"/>	\$46.87	\$36.85 - \$59.61	\$1,321,410.00	N	A	D
2501-8400172	TEMP SHORING	LS	1.000	\$0.00	<input type="checkbox"/>	\$0.00		\$0.00	N	A	D
2526-8285000											
2533-4980000											
2599-9999000											

The "Unit Price" can now be left as is or modified by typing in a new price based on the judgment of the estimator. In this example we have increased the price of the Steel Pile to \$51.00 per LF. Typing in a unit price will automatically uncheck the "Use Suggestion" box.



**NOTE:** Additional documentation explaining the changes to the unit price should be added in the form of Notes and/or attaching documents.

Unit pricing increased due to staging.

OK Cancel

**Clicking on the “N” icon** will open a Notes screen allowing for the estimator to document any changes or reasoning for the adjustments to bid item pricing. Once finished **click on “OK”**. The “N” icon will change color from white to blue to show that notes have been added for this bid item.

Previous Unit Price/Percent: 0 Updated: euser2 4/26/2019 12:56:56 PM  
 Previous Unit Price/Percent: 54.7500 Updated: euser2 4/29/2019 11:22:58 AM  
 Previous Unit Price/Percent: 47.95 Updated: euser2 4/29/2019 11:39:18 AM

OK

**Clicking on the “A” icon** will open an automated screen showing a log of all pricing changes made to the bid item. This information includes the previous bid price, the user who made the changes, and the date the changes were made.

Document Name	Description
No records to display.	

Add Document  
Delete Document



Close

Documents can also be attached to each bid item by **clicking on the “D” icon** in the Docs column. Once on the document screen **right click to add or remove a document**.

### Document Upload










\* File:

A document upload dialog box will appear allowing documents to be attached.

Document Name	Description
<a href="#">#13.xlsx</a>	Item document 
<a href="#">#19.png</a>	Example Steel Pile Image 

The description of uploaded documents can be changed by **clicking on the pencil icon**. Once Finished **click on "Close"**. The "D" icon will now change color to blue to show that a document has been attached to this bid item.

## Non-Standard Bid Items

Item Number	Description	UCM	Quantity	Unit Price	Use Suggestion	Suggestion	Suggestion Range	Est. Price		Docs
2402-2720000	EXCAVATION, CL 20 	CY	3,722.000	\$18.64	<input checked="" type="checkbox"/>	\$18.64	\$13.03 - \$26.67	\$69,378.08	N	A [D]
2403-0100010	STRUCT CONC (BRIDGE) 	CY	1,190.900	\$513.05	<input checked="" type="checkbox"/>	\$513.05	\$476.68 - \$552.18	\$610,991.25	N	A [D]
2403-7000210	HIGH PERFORMANCE STRUC CONC 	CY	4,473.600	\$648.82	<input checked="" type="checkbox"/>	\$648.82	\$604.38 - \$696.52	\$2,902,561.15	N	A [D]
2404-7775000	REINFORC STEEL 	LB	261,302.000	\$0.85	<input checked="" type="checkbox"/>	\$0.85	\$0.77 - \$0.94	\$222,106.70	N	A [D]
2404-7775005	REINFORC STEEL EPOXY COATED 	LB	1,265,463.000	\$0.84	<input checked="" type="checkbox"/>	\$0.84	\$0.78 - \$0.91	\$1,062,988.92	N	A [D]
2404-7775009	REINF STEEL, STAINLESS STEEL 	LB	243,141.000	\$2.62	<input checked="" type="checkbox"/>	\$2.62	\$2.24 - \$3.07	\$637,029.42	N	A [D]
2408-7800000	STRUCTURAL STEEL 	LB	3,542,894.00	\$1.37	<input checked="" type="checkbox"/>	\$1.37	\$1.22 - \$1.54	\$4,853,764.78	N	A [D]
2414-6424119	CONC BARRIER RAIL, AESTHETIC 	LF	4,155.300	\$104.84	<input checked="" type="checkbox"/>	\$104.84	\$79.29 - \$149.97	\$435,641.65	N	A [D]
2434-0000100	DISC BEARING ASSEMBLIES 	EA	70.000	\$4,775.00	<input checked="" type="checkbox"/>	\$4,775.00	\$4,650.00 - \$5,000.00	\$334,250.00	N	A [D]
2499-2300001	DECK DRAIN 	LS	1.000	\$13,992.71	<input checked="" type="checkbox"/>	\$13,992.71	\$0.00 - \$0.00	\$13,992.71	N	A [D]
2501-0201473	PILE, STEEL, HP 14X73 	LF	25,910.00	\$51.00	<input type="checkbox"/>	\$46.87	\$36.85 - \$59.61	\$1,321,410.00	N	A [D]
2501-8400172	TEMP SHORING 	LS	1.000	\$0.00	<input type="checkbox"/>	\$0.00		\$0.00	N	A [D]
2526-8285000	CONSTRUCTION SURVEY 	LS	1.000	\$25,396.05	<input checked="" type="checkbox"/>	0.19%	0.00% - 8.40%	\$25,396.05	N	A [D]
2533-4980005	MOBILIZATION 	LS	1.000	\$876,832.09	<input checked="" type="checkbox"/>	6.56%	0.80% - \$2.60%	\$876,832.09	N	A [D]
2599-9999010	CONCRETE DEADMAN ANCHOR 	LS	1.000	\$0.00	<input type="checkbox"/>	\$0.00		\$0.00	N	A [D]

Many standard lump sum and all non-standard (2599-category) bid items will not be able to have a price calculated by the software. These are unique non-standard bid items on a project and it is up to the user to determine these costs. This can be gathered from previous projects, manufacturer literature, etc. Documentation explaining the basis of pricing for these items should be added to the notes and/or the documents tabs in the software.



## Lump Sum Items

Item Number	Description	UOM	Quantity	Unit Price	Use Suggestion	Suggestion	Suggestion Range	Est. Price		Docs
2402-2720000	EXCAVATION, CL 20	CY	3,722.000	\$18.64	<input checked="" type="checkbox"/>	\$18.64	\$13.03 - \$26.67	\$69,378.08	N	A [D]
2403-0100010	STRUCT CONC (BRIDGE)	CY	1,190.900	\$513.05	<input checked="" type="checkbox"/>	\$513.05	\$476.68 - \$552.18	\$610,991.25	N	A [D]
2403-7000210	HIGH PERFORMANCE STRUC CONC	CY	4,473.600	\$648.82	<input checked="" type="checkbox"/>	\$648.82	\$604.38 - \$696.52	\$2,902,561.15	N	A [D]
2404-7775000	REINFORC STEEL	LB	261,302.000	\$0.85	<input checked="" type="checkbox"/>	\$0.85	\$0.77 - \$0.94	\$222,106.70	N	A [D]
2404-7775005	REINFORC STEEL, EPOXY COATED	LB	1,265,463.000	\$0.84	<input checked="" type="checkbox"/>	\$0.84	\$0.78 - \$0.91	\$1,062,988.92	N	A [D]
2404-7775009	REINF STEEL, STAINLESS STEEL	LB	243,141.000	\$2.62	<input checked="" type="checkbox"/>	\$2.62	\$2.24 - \$3.07	\$637,029.42	N	A [D]
2408-7800000	STRUCTURAL STEEL	LB	3,542,894.000	\$1.37	<input checked="" type="checkbox"/>	\$1.37	\$1.22 - \$1.54	\$4,853,764.78	N	A [D]
2414-6424119	CONC BARRIER RAIL, AESTHETIC	LF	4,155.300	\$104.84	<input checked="" type="checkbox"/>	\$104.84	\$73.29 - \$149.97	\$435,641.65	N	A [D]
2434-0000100	DISC BEARING ASSEMBLIES	EA	70.000	\$4,775.00	<input checked="" type="checkbox"/>	\$4,775.00	\$4,650.00 - \$5,000.00	\$334,250.00	N	A [D]
2499-2300001	DECK DRAIN	LS	1.000	\$13,992.71	<input checked="" type="checkbox"/>	\$13,992.71	\$0.00 - \$0.00	\$13,992.71	N	A [D]
2501-0201473	PILE, STEEL, HP 14X73	LF	25,910.000	\$46.87	<input checked="" type="checkbox"/>	\$46.87	\$36.85 - \$59.61	\$1,214,401.70	N	A [D]
2501-8400172	TEMP SHORING	LS	1.000	\$0.00	<input type="checkbox"/>	\$0.00		\$0.00	N	A [D]
2526-8285000	CONSTRUCTION SURVEY	LS	1.000	\$25,178.02	<input checked="" type="checkbox"/>	0.19%	0.00% - 8.40%	\$25,178.02	N	A [D]
2533-4980005	MOBILIZATION	LS	1.000	\$869,304.21	<input checked="" type="checkbox"/>	6.56%	0.80% - \$2.60%	\$869,304.21	N	A [D]
2599-9999010	CONCRETE DEADMAN ANCHOR	LS	1.000	\$0.00	<input type="checkbox"/>	\$0.00		\$0.00	N	A [D]

Some lump sum items such as “2533-4980005 MOBILIZATION AND 2526-8285000 CONSTRUCTION SURVEY” are percentage based. These lump sum items are identified by having a LS as the unit of measure and a suggested price in percent in the software. The percentage used to calculate the mobilization cost is based on a percent cost of the total division cost, which includes the cost of the mobilization bid item. Analysis of this item is similar to standard bid items using the “Item Trend Lookup” feature with the one difference being the calculation is based on % of project rather than unit price. Further information on Percentage Based bid items can be found in Chapter 6-B Specialty Bid Items.

Item Number	Description	UOM	Quantity	Unit Price	Use Suggestion	Suggestion	Suggestion Range	Est. Price		Docs
2402-2720000	EXCAVATION, CL 20	CY	3,722.000	\$18.64	<input checked="" type="checkbox"/>	\$18.64	\$13.03 - \$26.67	\$69,378.08	N	A [D]
2403-0100010	STRUCT CONC (BRIDGE)	CY	1,190.900	\$513.05	<input checked="" type="checkbox"/>	\$513.05	\$476.68 - \$552.18	\$610,991.25	N	A [D]
2403-7000210	HIGH PERFORMANCE STRUC CONC	CY	4,473.600	\$648.82	<input checked="" type="checkbox"/>	\$648.82	\$604.38 - \$696.52	\$2,902,561.15	N	A [D]
2404-7775000	REINFORC STEEL	LB	261,302.000	\$0.85	<input checked="" type="checkbox"/>	\$0.85	\$0.77 - \$0.94	\$222,106.70	N	A [D]
2404-7775005	REINFORC STEEL, EPOXY COATED	LB	1,265,463.000	\$0.84	<input checked="" type="checkbox"/>	\$0.84	\$0.78 - \$0.91	\$1,062,988.92	N	A [D]
2404-7775009	REINF STEEL, STAINLESS STEEL	LB	243,141.000	\$2.62	<input checked="" type="checkbox"/>	\$2.62	\$2.24 - \$3.07	\$637,029.42	N	A [D]
2408-7800000	STRUCTURAL STEEL	LB	3,542,894.000	\$1.37	<input checked="" type="checkbox"/>	\$1.37	\$1.22 - \$1.54	\$4,853,764.78	N	A [D]
2414-6424119	CONC BARRIER RAIL, AESTHETIC	LF	4,155.300	\$104.84	<input checked="" type="checkbox"/>	\$104.84	\$73.29 - \$149.97	\$435,641.65	N	A [D]
2434-0000100	DISC BEARING ASSEMBLIES	EA	70.000	\$4,775.00	<input checked="" type="checkbox"/>	\$4,775.00	\$4,650.00 - \$5,000.00	\$334,250.00	N	A [D]
2499-2300001	DECK DRAIN	LS	1.000	\$13,992.71	<input checked="" type="checkbox"/>	\$13,992.71	\$0.00 - \$0.00	\$13,992.71	N	A [D]
2501-0201473	PILE, STEEL, HP 14X73	LF	25,910.000	\$46.87	<input checked="" type="checkbox"/>	\$46.87	\$36.85 - \$59.61	\$1,214,401.70	N	A [D]
2501-8400172	TEMP SHORING	LS	1.000	\$0.00	<input type="checkbox"/>	\$0.00		\$0.00	N	A [D]
2526-8285000	CONSTRUCTION SURVEY	LS	1.000	\$25,178.02	<input checked="" type="checkbox"/>	0.19%	0.00% - 8.40%	\$25,178.02	N	A [D]
2533-4980005	MOBILIZATION	LS	1.000	\$869,304.21	<input checked="" type="checkbox"/>	6.56%	0.80% - \$2.60%	\$869,304.21	N	A [D]
2599-9999010	CONCRETE DEADMAN ANCHOR	LS	1.000	\$0.00	<input type="checkbox"/>	\$0.00		\$0.00	N	A [D]

The percent can be manually modified by the user by right clicking on the bid item and selecting “Modify Lumpsum Percent”.

Modify Lumpsum Percent

Enter Percent(%):

A pop up screen will appear allowing for the new percentage to be entered. Click on “OK” to accept the change and update the item in the estimate.



## Chronology of Changes to iPDWeb Manual Section:

### 6C-1 [Item Trend Lookup](#)

DATE 08/16/2019

New.

DATE Revised

Description