

Preliminary Review of Bid Items

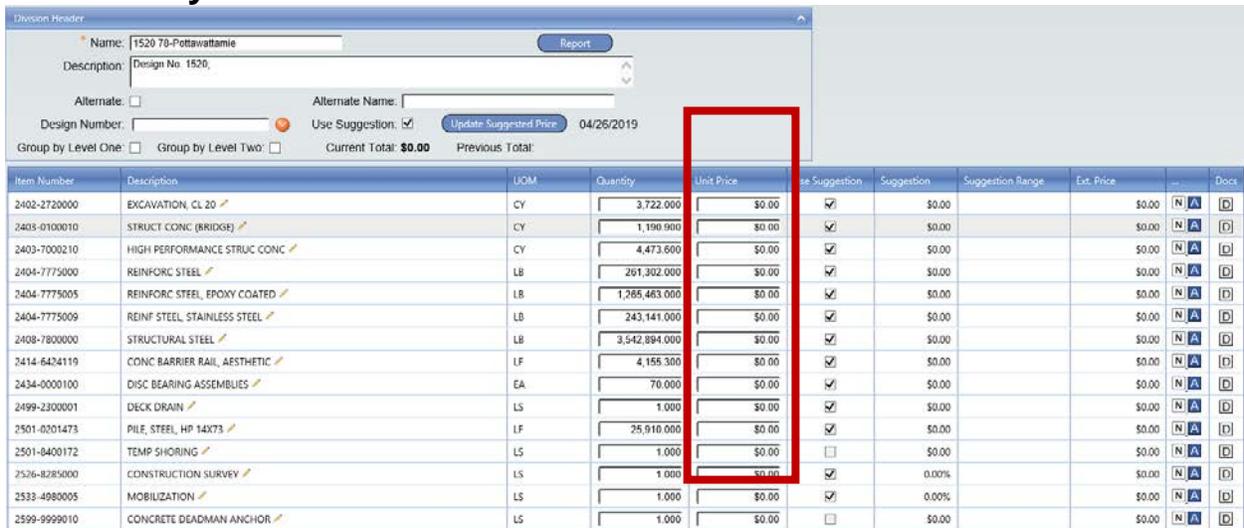
iPDWeb Cost Estimating Manual
Chapter 6
Bid Items
 Originally Issued: 08-16-19
 Revised: xx-xx-xx

After bid items have been added to the estimate (See Chapter **6A-1** Add Items Individually and Chapter **6B-1** Add Specialty Bid Items), bid items should be reviewed, quantities verified, and then they can be priced using the software. Pricing should be reviewed by the estimator to verify the price for items of significant value and check that items have sufficient data samples. Any items requiring additional analysis can be dug into deeper using the Item Trend Lookup Tool (See Chapter **6C-1** Item Trend Lookup).

This chapter contains the following sections:

[Preliminary Review of Bid Items](#): Explanation of how to review bid items

Preliminary Review of 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	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	N A D
2403-0100010	STRUCT CONC (BRIDGE)	CY	1,190.900	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	N A D
2403-7000210	HIGH PERFORMANCE STRUC CONC	CY	4,473.600	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	N A D
2404-7775000	REINFORC STEEL	LB	261,302.000	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	N A D
2404-7775005	REINFORC STEEL, EPOXY COATED	LB	1,265,463.000	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	N A D
2404-7775009	REINF STEEL STAINLESS STEEL	LB	243,141.000	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	N A D
2408-7800000	STRUCTURAL STEEL	LB	3,542,894.000	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	N A D
2414-6424119	CONC BARRIER RAIL, AESTHETIC	LF	4,155.300	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	N A D
2434-0000100	DISC BEARING ASSEMBLIES	EA	70.000	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	N A D
2499-2300001	DECK DRAIN	LS	1.000	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	N A D
2501-0201473	PILE, STEEL, HP 14X73	LF	25,910.000	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	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	\$0.00	<input checked="" type="checkbox"/>	0.00%		\$0.00	N A D
2533-4980005	MOBILIZATION	LS	1.000	\$0.00	<input checked="" type="checkbox"/>	0.00%		\$0.00	N A D
2599-9999010	CONCRETE DEADMAN ANCHOR	LS	1.000	\$0.00	<input type="checkbox"/>	\$0.00		\$0.00	N A D

Once the bid item list has been created, **verify** that each bid item has a quantity. Items with zero quantity will not calculate a total price.

Division Header

Name: 1520 70-Pottawattamie Report

Description: Design No. 1520

Alternate: Alternate Name:

Design County: Use Suggestion: Update Suggested Price: 04/26/2019

Group by Level One: Group by Level Two: Current Total: \$0.00 Previous Total:

Item Number	Description	UOM	Quantity	Unit Price	Use Suggestion	Suggestion	Suggestion Range	Est. Price		Docs
2402-2720000	EXCAVATION, CL 20	CY	3,722.000	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	N	A
2403-0100010	STRUCT CONC (BRIDGE)	CY	1,190.900	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	N	A
2403-7000210	HIGH PERFORMANCE STRUC CONC	CY	4,473.600	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	N	A
2404-7775000	REINFORC STEEL	LB	261,302.000	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	N	A
2404-7775005	REINFORC STEEL, EPOXY COATED	LB	1,265,463.000	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	N	A
2404-7775009	REINF STEEL STAINLESS STEEL	LB	243,141.000	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	N	A
2408-7800000	STRUCTURAL STEEL	LB	3,542,894.000	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	N	A
2414-6424119	CONC BARRIER RAIL, AESTHETIC	LF	4,155.300	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	N	A
2434-0000100	DISC BEARING ASSEMBLIES	EA	70.000	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	N	A
2499-2300001	DECK DRAIN	LS	1.000	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	N	A
2501-0201473	PILE, STEEL, HP 14X73	LF	25,910.000	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	N	A
2501-0400172	TEMP SHORING	LS	1.000	\$0.00	<input type="checkbox"/>	\$0.00		\$0.00	N	A
2526-8285000	CONSTRUCTION SURVEY	LS	1.000	\$0.00	<input checked="" type="checkbox"/>	0.00%		\$0.00	N	A
2533-4980005	MOBILIZATION	LS	1.000	\$0.00	<input checked="" type="checkbox"/>	0.00%		\$0.00	N	A
2599-9999010	CONCRETE DEADMAN ANCHOR	LS	1.000	\$0.00	<input type="checkbox"/>	\$0.00		\$0.00	N	A

Make sure the “Use Suggestion” box is checked. Note: toggling the global checkmark causes all boxes for the bid items in the “Use Suggestion” column to likewise check or uncheck. Once the bid items are checked click on the “Update Suggested Price” button. The program will now run a pricing calculation based on the project trend filters.

Division Header

Name: 1520 78-Pottawattamie Report

Description: Design No. 1520

Alternate: Alternate Name:

Design County: Use Suggestion: Update Suggested Price: 04/26/2019

Use Division Total: Use Project Total: Use Office Total:

Group by Level One: Group by Level Two: Current Total: \$13,470,538.61 Previous Total:

Item Number	Description	UOM	Quantity	Unit Price	Use Suggestion	Suggestion	Suggestion Range	Est. Price		Docs
2402-2720000	EXCAVATION, CL 20	CY	3,722.000	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	N	A
2403-0100010	STRUCT CONC (BRIDGE)	CY	1,190.900	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	N	A
2403-7000210	HIGH PERFORMANCE STRUC CONC	CY	4,473.600	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	N	A
2404-7775000	REINFORC STEEL	LB	261,302.000	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	N	A
2404-7775005	REINFORC STEEL, EPOXY COATED	LB	1,265,463.000	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	N	A
2404-7775009	REINF STEEL STAINLESS STEEL	LB	243,141.000	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	N	A
2408-7800000	STRUCTURAL STEEL	LB	3,542,894.000	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	N	A
2414-6424119	CONC BARRIER RAIL, AESTHETIC	LF	4,155.300	\$0.00	<input checked="" type="checkbox"/>	\$0.00		\$0.00	N	A
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

Once the calculation is completed the software will place timestamp for when the last update suggested price was run and will also calculate the current total of the estimate and previous estimate total when applicable. This information is only a tool for the estimator to see the effects of a recent change and is not further tracked in the system.

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
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
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
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
2404-7775005	REINFORC STEEL, EPOXY COATED	LB	1,265,483.000	\$0.84	<input checked="" type="checkbox"/>	\$0.84	\$0.78 - \$0.91	\$1,062,988.92	N	A
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
2408-7800000	STRUCTURAL STEEL	LB	3,542,894.000	\$1.37	<input checked="" type="checkbox"/>	\$1.37	\$1.23 - \$1.52	\$4,853,764.78	N	A
2414-6424119	CONC BARRIER RAIL, AESTHETIC	LF	4,155.300	\$104.84	<input checked="" type="checkbox"/>	\$104.84	\$73.29 - \$149.97	\$435,841.85	N	A
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
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
2501-0201473	PILE, STEEL, HP 14X73	LF	25,910.000	\$54.75	<input checked="" type="checkbox"/>	\$54.75	\$44.15 - \$67.89	\$1,418,572.50	N	A
2501-8400172	TEMP SHORING	LS	1.000	\$0.00	<input type="checkbox"/>	\$0.00		\$0.00	N	A
2526-8285000	CONSTRUCTION SURVEY	LS	1.000	\$25,594.02	<input checked="" type="checkbox"/>	\$25,594.02	0.19% - 8.40%	\$25,594.02	N	A
2533-4980005	MOBILIZATION	LS	1.000	\$883,667.33	<input checked="" type="checkbox"/>	\$883,667.33	6.56% - 52.60%	\$883,667.33	N	A
2599-9999010	CONCRETE DEADMAN ANCHOR	LS	1.000	\$0.00	<input type="checkbox"/>	\$0.00		\$0.00	N	A

Some bid items will have grayed out boxes and are unable to be selected in the use selection column. This is mainly limited to lump sum items or bid items that fall in the 2599-category. These items vary greatly in design parameters for each project and will need to be estimated separately based on the actual design.

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
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
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
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
2404-7775005	REINFORC STEEL, EPOXY COATED	LB	1,265,483.000	\$0.84	<input checked="" type="checkbox"/>	\$0.84	\$0.78 - \$0.91	\$1,062,988.92	N	A
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
2408-7800000	STRUCTURAL STEEL	LB	3,542,894.000	\$1.37	<input checked="" type="checkbox"/>	\$1.37	\$1.23 - \$1.52	\$4,853,764.78	N	A
2414-6424119	CONC BARRIER RAIL, AESTHETIC	LF	4,155.300	\$104.84	<input checked="" type="checkbox"/>	\$104.84	\$73.29 - \$149.97	\$435,841.85	N	A
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
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
2501-0201473	PILE, STEEL, HP 14X73	LF	25,910.000	\$54.75	<input checked="" type="checkbox"/>	\$54.75	\$44.15 - \$67.89	\$1,418,572.50	N	A
2501-8400172	TEMP SHORING	LS	1.000	\$0.00	<input type="checkbox"/>	\$0.00		\$0.00	N	A
2526-8285000	CONSTRUCTION SURVEY	LS	1.000	\$25,594.02	<input checked="" type="checkbox"/>	\$25,594.02	0.19% - 8.40%	\$25,594.02	N	A
2533-4980005	MOBILIZATION	LS	1.000	\$883,667.33	<input checked="" type="checkbox"/>	\$883,667.33	6.56% - 52.60%	\$883,667.33	N	A
2599-9999010	CONCRETE DEADMAN ANCHOR	LS	1.000	\$0.00	<input type="checkbox"/>	\$0.00		\$0.00	N	A

When reviewing pricing, it is important to spend the most time on the items that have the greatest impact on cost in the estimate. Usually around 20% of the items compose 80% of the cost and are the items that need to be looked at closer. In this scenario, the items highlighted above contain approximately 83% of the cost of the estimate. These items should be analyzed first and fine-tuned, before moving on to the remaining bid items. A review of the Item Trend Lookup should be a part of the detailed analysis of any of the bid items. See Chapter 6C-01 for details on the Item Trend Lookup.

Item Number	Description	UOM	Quantity	Unit Price	Use Suggestion	Suggestion	Suggestion Range	Est. Price	Doc
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	1,199.900	\$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	\$604.39 - \$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	3,942,894.000	\$1.37	<input checked="" type="checkbox"/>	\$1.37	\$1.23 - \$1.52	\$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	\$54.75	<input checked="" type="checkbox"/>	\$54.75	\$44.15 - \$67.89	\$1,418,572.50	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	\$25,594.02	<input checked="" type="checkbox"/>	\$0.19%	0.00% - 8.40%	\$25,594.02	N A D
2533-4980005	MOBILIZATION	LS	1.000	\$883,667.33	<input checked="" type="checkbox"/>	6.56%	0.00% - 52.60%	\$883,667.33	N A D
2599-9999010	CONCRETE DEADMAN ANCHOR	LS	1.000	\$0.00	<input type="checkbox"/>	\$0.00		\$0.00	N A D

When reviewing pricing there are a few ways to quickly identify items that will need to be looked at closer. The first involves checking the sample size for the calculated pricing. This can easily be done by **holding the mouse cursor above the unit price** in the suggestion column. A popup will appear showing the sample size for the bid item. As a best practice, a minimum of 10 samples are required for valid unit price however, a more accurate price can be obtained with higher samples.

Another way to locate item pricing that will require closer observation is by reviewing the values in the suggestion range. The high and low range should be somewhat close. When a greater difference in high and low value are shown then there is likely not enough samples or a large variance in the sample unit prices. In these scenarios it is best to analyze the item lookup calculation and modify the item filters to increase the sample size. In order to do, this **right click** on the bid item in question and select "Item Trend Lookup" (See Chapter **6C-1** Item Trend Lookup). A detailed breakdown of the Item Trend Lookup screen can be found in the section below.

Chronology of Changes to iPDWeb Manual Section:

6D-1 Preliminary Review of Bid Items

DATE 08-16-2019

New.

DATE Revised

Description