STATE OF FLORIDA Florida Department of Transportation



Bid Price Search Advanced Power BI Dashboard

How To with Examples

July 10, 2025

Quick Start Guide

Bid Price Search Advanced Dashboard *Link*

1. Set the Letting Date Range to Define Your Timeline

 Start by adjusting the Letting Date Range slicer to focus on a relevant time period for your project. This ensures the data aligns with market conditions and project timelines similar to your estimate. The slicer will only show dates based on what is in the database.

2. Narrow Data to Match Your Project's Scope

- Use filters to refine the dataset. For example:
 - Select a specific Pay Item or Description (e.g., "0334 1 55" for Superpave Asphalt Concrete) to focus on relevant materials.
 - Filter location by **District**, **Primary County**, or **Market Area** to reflect regional pricing trends.
 - Choose a Work Type or Contract Type that matches your project (e.g., Resurfacing, Construction Contract).
 - Select a Quantity range that closely matches your project quantity. For instance, if you have 8,000 TN of structural asphalt, start by selecting a quantity range of 4,000 to 12,000.
- Tip: For statewide analysis, select "All" in regional filters or reset them using the eraser ("Clear Selections") button that appears when hovering over a filter.

3. Use Bid Amount and Awarded Days as Needed

- *Bid Amount:* Adjust this slicer to filter projects by their total bid value. This helps you find projects of a similar financial scale to the one you're estimating. For example, if your project is valued at \$5,000,000, set the range around that value to analyze comparable bids.
- Awarded Days: Use this slicer to filter projects by their duration (in days), identifying projects with a similar timeline to yours. For instance, if your project is expected to take 300 days, set the range around 300 to find matching projects for better cost estimation.

4. Make Multiple Selections

- Check multiple options within a filter to broaden your analysis. For example:
 - Select multiple Pay Items to compare pricing across related materials. This can also be done by individually selecting a Cost Group.

 Choose multiple Counties or Contract Types to analyze trends across different regions or project types.

5. Search Within Filters for Efficiency

• Use the search bar in filters to find specific entries (e.g., search for a Pay Item Description like "ASPH CONC FC" without knowing the exact Pay Item number).

6. Focus on Winning Bids

- Set the **Bidder Status** filter to "W" to view only winning bids (default setting when resetting filters). This ensures you're analyzing executed contracts, which are most relevant for estimating typical costs.
- Alternatively, select "All" to include all bids and calculate an average across the dataset, which can provide a broader market perspective.
- "L" indicates a losing bid
- "I" indicates an irregular bid

7. Analyze Competitive Bidding

- Fair Market Value: Set the **Bidder Rank** filter 1, 2, and 3 to focus on a fair market value of the unit price for budgeting purposes.
- Competitiveness:
 - Low Competition: Set Number of Bidders filter 1 to 2 to show data where two or less bids were submitted.
 - High Competition: Set Number of Bidders filter 3 to max value to show data with more competitive bid environments.

8. Analyze Price Trends and Outliers

- The Price Trend scatter plot (right side) visualizes bid prices against quantity. Blue dots represent individual bids, yellow dots indicate bid outliers, and the purple dashed line shows the trend. The trend line only indicates an increase or decrease in unit price based on quantities. It does not convey a recommended unit price.
- The table at the bottom provides key metrics:
 - o Weighted Avg Price: The average price per unit across filtered data.
 - Weighted Avg Price (No Outliers): The average price of the filtered data after removing outliers, giving a more typical cost estimate. This would be used when analyzing all bid data, not winning bids only.
 - Outlier Column: Identifies whether a bid is an outlier (Yes/No) using a weighted standard deviation formula. Outliers are excluded from the "No Outliers" average to help you focus on standard pricing.
- Average Quantity: Reflects the average quantity of the filtered selection.

9. Export Data for Further Analysis

- To export table data:
 - Hover over the table at the bottom.
 - o Click the ellipsis ("...") in the top-right corner to open "More Options."
 - o Select "Export Data" and click to download the data as a file.

10. Reset Filters as Needed

- To clear all filters and start fresh, click the Reset Filters button at the top-left.
- To clear a specific filter, hover over it and click the eraser ("Clear Selections") button.

Examples

Examples selected below include navigation of the dashboard and tips on how to visualize and interpret the data.

Example Notes:

- Examples show how data can change based on filter selections.
- Users must decide if sufficient data exists to accurately represent potential bid data.
- Previous Pay Item Range reports as shown below analyze winning bids only. The Power BI dashboard allows filtering by Bidder Rank to be able to consider Fair Market Value typically considered as bidders ranked 1 through 3 based on total bid amount.
- Letting Date Range only allows the latest date based on database entries.

Example 1: Historical Item Average Report Cost Comparison (Statewide)

- Your resurfacing project requires 8,000 Tons of Asphalt Structural Course in Central FL.
- The design team selected pay item 0334 153 (Superpave Asph Conc, Traf C, PG76-22).

Find a historical unit price that matches your project using the link below.

Historical Item Average Cost Reports *Link*

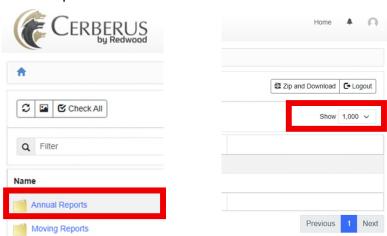
- Identify baseline data from the Historical Item Average Cost Report website.
- This example will use archive data for comparison because more recent data is still being populated. Recent data changes over time as let projects are executed and uploaded which could lead to individual results that wouldn't match the examples provided.
- When estimating an actual project, use the most recent available data for comparison.

Navigate the Archive Reports

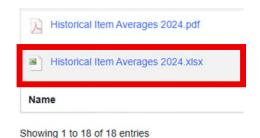
Click on the archive of past reports.



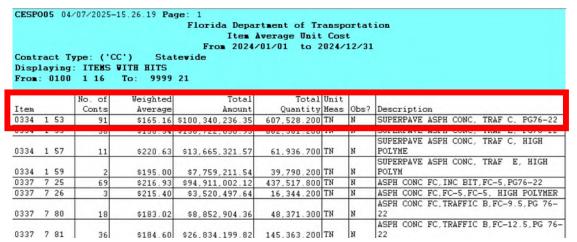
• Click on Annual Reports and the number next to "Show" and set to 1,000.



• Scroll to the report labeled "Historical Item Average 2024" and click the xlsx version.



Find the desired pay item in the report.



BASELINE RESULT: (\$165.16 – Statewide Weighted Average – Winning Bids)

Use the Bid Price Advanced Dashboard to find the unit price that matches your project using the link below.

Bid Price Search Advanced Dashboard *Link*

Check the Statewide Value

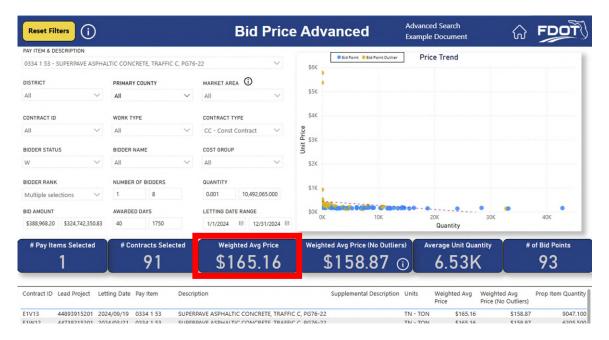
Filter Pay Item: 0334 1 53 (Superpave Asph Conc, Traf C, PG76-22)

Filter Bidder Status: W (Winning Bids Only)

Filter Letting Date Range: 1/1/2024 to 12/31/2024

Filter Contract Type: CC - Const Contract

Filter Location: Statewide - No Filter

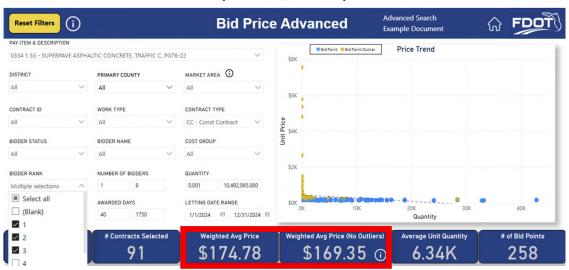


BASELINE RESULT: (\$165.16 Statewide Weighted Average – Winning Bids)

Change to Fair Market Value (Budgeting Purposes)

Filter Bidder Status: Click Eraser (Reset Individual Filter to ALL)

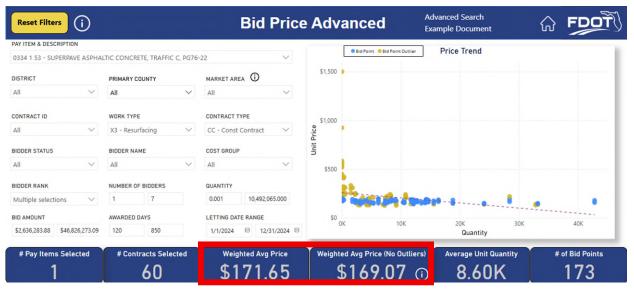
Filter Bidder Rank: Fair Market Value (Select 1, 2 and 3)



RESULT: (Increase in cost of \$4 to \$10 per TN from the Statewide Value)

Narrow Results to Match Previous Resurfacing Projects

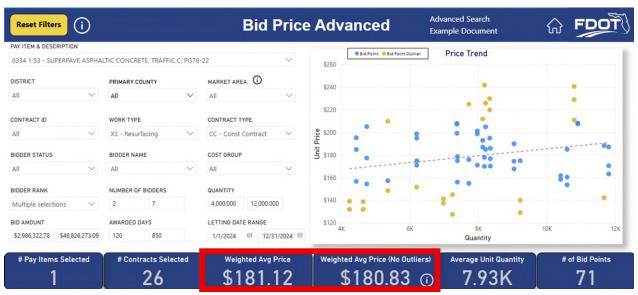
Filter Work Type: X3 - Resurfacing



RESULT: (Increase in cost of \$4 to \$6 per TN from the Statewide Value)

Match Your Project's Quantity

Filter Quantity: 4,000-12,000



RESULT: (Increase in cost of \$16 per TN from the Statewide Value)

This represents a **\$128,000** increase in **pay item costs**. And a potential **\$157,000** increase in **project costs** including percentage items of Maintenance of Traffic, Mobilization, and Project Unknowns.

Example 2: Historical Item Average Report Cost Comparison (Market Area)

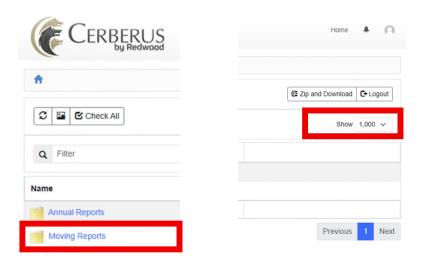
- Your resurfacing project requires 8,000 Tons of Asphalt Structural Course in Central FL.
- The design team selected pay item 0334 153 (Superpave Asph Conc, Traf C, PG76-22).

Navigate the Archive Reports

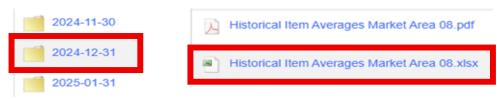
Click on the archive of past reports.



• Click on Moving Reports and the number next to "Show" and set to 1,000.



- Scroll to the folder labeled "2024-12-31" for the 2024 calendar year report and select "Historical Item Average Market Area 08.xlsx" for Central Florida Data.
- Market Areas *Link*



• Find the desired pay item in the report.



BASELINE RESULT: (\$182.80 - Market Area Weighted Average - Winning Bids)

Check Market Area Value

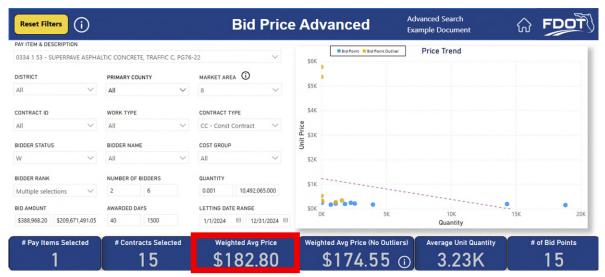
Filter Pay Item: 0334 1 53 (Superpave Asph Conc, Traf C, PG76-22)

Filter Bidder Status: W (Winning Bids Only)

Filter Letting Date Range: 1/1/2024 to 12/31/2024

Filter Contract Type: CC - Const Contract

Filter Location: Market Area 8

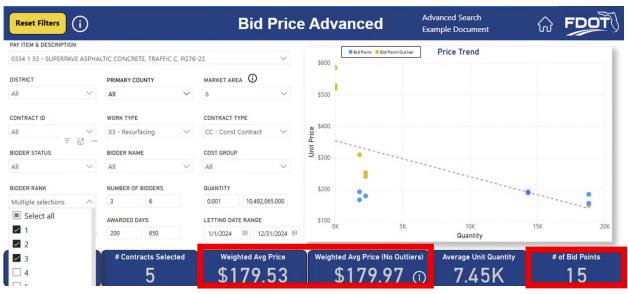


BASELINE RESULT: (\$182.80 – Market Area Weighted Average – Winning Bids)Change Location and Contract Information

Filter Work Type: X3 Resurfacing

Filter Bidder Status: Click Eraser (Reset Individual Filter to ALL)

Filter Bidder Rank: Fair Market Value (Select 1, 2 and 3)

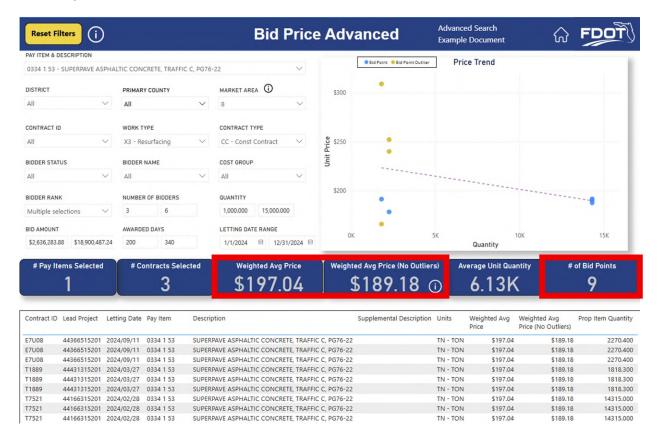


RESULT: (Decrease in cost of \$3 per TN from the Market Area Value)

Note: A low number of Bid Points (15) indicates reduced price confidence.

Match Your Project's Quantity

Filter Quantity: 1,000-15,000



RESULT: (Increase in cost of \$6 to \$14 per TN from the Market Area Value) Note:

- Review letting dates to consider quantities and bid amounts of the most recent data.
- A low number of Bid Points (9) indicates reduced price confidence.

This represents a \$48,000 to \$112,000 increase in pay item costs. And a potential \$56,000 to \$137,000 increase in project costs including percentage items of Maintenance of Traffic, Mobilization, and Project Unknowns.

Example 3: Price Comparison Based on Quantity (Winning Bids)

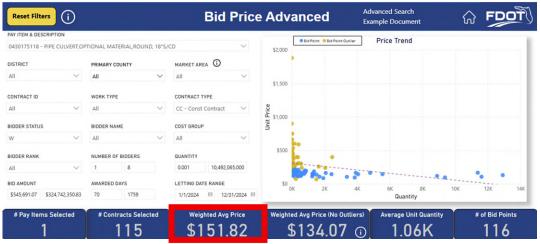
- Your two separate construction projects require 1,500 LF and 10,000 LF of 18" Pipe respectively. They are NOT let together. If they were to be let together, add the quantities to find the total bid amount for unit price selection.
- The design team selected pay item 0430175118 (PIPE CULV, OPT MATL, ROUND, 18"S/CD) for both projects.

Start by finding the baseline value.

Filter Pay Item: 0430175118

Filter Contract Type: CC – Const Contract
Filter Bidder Status: W (Winning Bids Only)

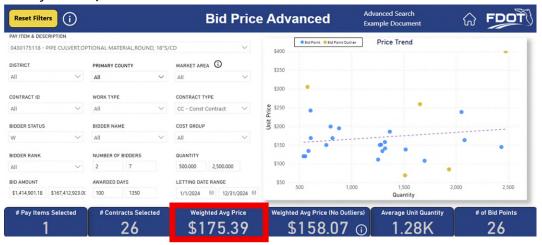
Filter Letting Date Range: 1/1/2024 to 12/31/2024



BASELINE RESULT: (\$151.82 - Statewide Weighted Average - Winning Bids)

Match Your First Project's Quantity (1,500)

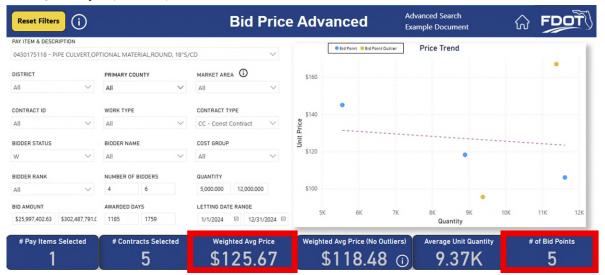
Filter Quantity: 500-2,500



RESULT: (Increase in cost of \$23 per LF from the Statewide Value)

Match Your Second Project's Quantity (10,000)

Filter Quantity: 5,000-12,000



RESULT: (Decrease in cost of \$26 per LF from the Statewide Value)

Note:

- Review letting dates to consider quantities and bid amounts of the most recent data.
- A low number of Bid Points (5) indicates reduced price confidence.
- Consider changing filters to include more data by expanding the date range, quantity range, or update to a fair market value analysis.

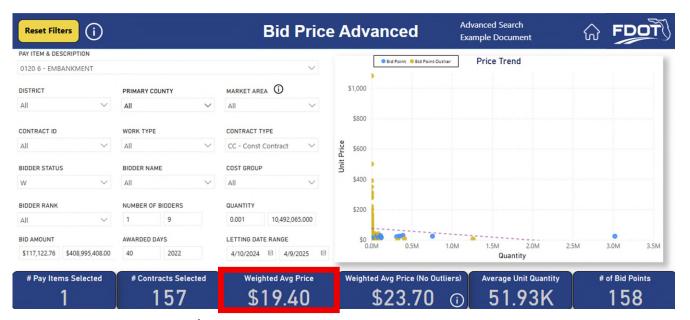
Example 4: Limited Data

- Your project requires 20,000 Cubic Yards of Earthwork in Northeast FL.
- The design team selected Pay Item 0120 6 (Embankment).

Check Statewide Values

Filter Pay Item Description: Embankment
Filter Contract Type: CC – Const Contract
Filter Bidder Status: W (Winning Bids Only)
Filter Letting Date Range: 4/10/2024 to 4/9/2025

Filter Location: Statewide - No Filter



BASELINE RESULT: (\$19.40 – Statewide Weighted Average – Winning Bids)

Change to Fair Market Values and Project Location

Filter Market Area: 5

Filter Bidder Status: Clear Filter (Click Eraser)

Filter Bidder Rank: Fair Market Value (Select 1, 2, and 3)

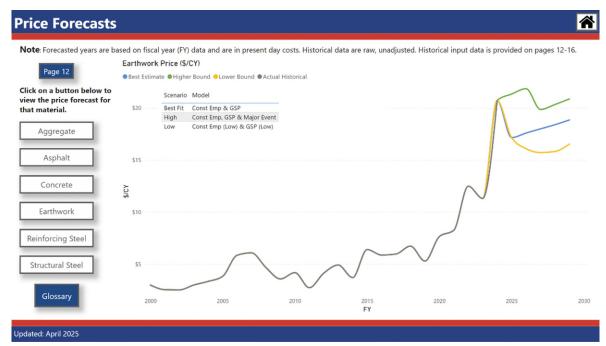
Filter Letting Date Range: 4/10/2024 to 4/9/2025



RESULT: (Increase in cost of \$3 to \$5 per CY from the Statewide Value)

Check Reduced Data (13 Points with Limited Data at the Desired Quantity)

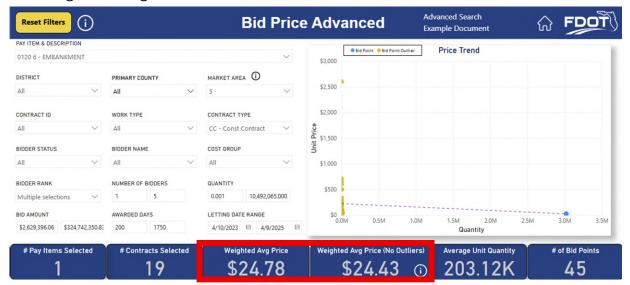
Review Price Forecast for Earthwork *Link*



Note: Likely reduction in per unit cost year over year from 2024 to 2025.

Based on a likely reduction in year over year present day costs, include additional data expecting a reasonable unit price value from the prior year.

Filter Letting Date Range: 4/10/2023 to 4/9/2025



RESULT: No Change in Price from Previous Result (45 Results – Increased Confidence)

Check Against Your Plan Quantity

Filter Quantity: 1,800 - 100,000



RESULT: (Increase in cost of \$25 to \$37 per CY from the Statewide Value)

Note: A low number of Bid Points (9) indicates reduced price confidence.

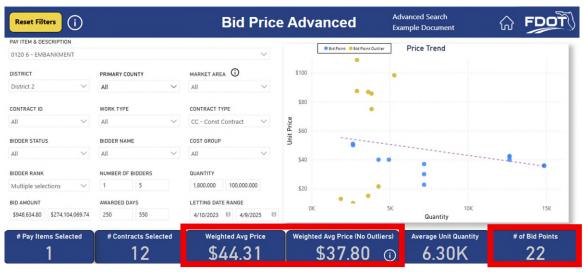
Check Cost Trend Data for Earthwork *Link*



Check against District 2

Filter Market Area: Click Eraser (Reset Individual Filter)

Filter District: District 2



RESULT: (Increase in cost of \$19 to \$25 per CY from Statewide Values)

This represents a \$380,000 to \$500,000 increase in pay item costs. And a potential \$465,000 to \$612,000 increase in project costs including percentage items of Maintenance of Traffic, Mobilization, and Project Unknowns.

Example 5: Lump Sum with Secondary Units

- Your project requires 1,000,000 LBS of Steel.
- The design team selected pay item 0460-2-2 (Structural Steel, Low Alloy)
- This is a lump sum item with hybrid/secondary units

			Master	
Pay Item	Description	Units	Units	
0102 1	MAINTENANCE OF TRAFFIC	LS - LUMP SUM	LS/DA	
0102 2200	SPECIAL DETOUR- TEMPORARY PAVEMENT	LS - LUMP SUM	LS/SY	
0102 2300	SPECIAL DETOUR- TEMPORARY EARTHWORK/BASE	LS - LUMP SUM	LS/CY	
0102 2400	SPECIAL DETOUR- TEMPORARY BRIDGE	LS - LUMP SUM	LS/EA	
0102 4 1	PEDESTRIAN OR BICYCLE SPECIAL DETOUR	LS - LUMP SUM	LS/SY	
010230	TEMPORARY HIGHWAY LIGHTING	LS - LUMP SUM	LS/EA	
0110 1 1	CLEARING & GRUBBING	LS - LUMP SUM	LS/AC	
0110 3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	LS - LUMP SUM	LS/SF	
0173 79100	SOIL STAB/IMPR BY COLUMN SUPP EMBANKMENT	LS - LUMP SUM	LS/CY	
0400603	CATHODIC PROTECTION-ELECT WORK, CODUIT,	LS - LUMP SUM	LS/LF	
0460 2 1	STRUCT STEEL, CARBON	LS - LUMP SUM	LS/LB	
0460 2 2	STRUCT STEEL, LOW ALLOY	LS - LUMP SUM	LS/LB	
0460 2 3	STRUCT STEEL, SHOE ASSEMBLIES	LS - LUMP SUM	LS/LB	
0460 2 5	STRUCT STEEL, BASCULE LEAVES	LS - LUMP SUM	LS/LB	
0460 2 6	STRUCT STEEL, BASCULE PIERS	LS - LUMP SUM	LS/LB	
0460 215	STRUCT STEEL, MISCELLANEOUS	LS - LUMP SUM	LS/LB	
0460 220	STRUCT STEEL - NEW/WIDENING, WEATHERING	LS - LUMP SUM	LS/LB	
0465 4	MOVEABLE BRIDGE, SPAN JACKING	LS - LUMP SUM	LS/EA	
0465 20	MOVABLE BRIDGE- PREV MAINT & ROUT REPAIR	LS - LUMP SUM	LS/DA	
0508 73 1	SUBMARINE CABLE ASSEMBLY, F & I	LS - LUMP SUM	LS/LF	
0508 73 4	SUBMARINE CABLE ASSEMBLY, REMOVE	LS - LUMP SUM	LS/LF	
0560 1 1	COATING NEW STRUCTURAL STEEL- INSIDE BOX	LS - LUMP SUM	LS/LB	
0561 1	COATING EXISTING STRUCTURAL STEEL	LS - LUMP SUM	LS/TN	
0700 10500	DMS SUPPORT STRUCTURE, MODIFY	LS - LUMP SUM	LS/EA	
0750 111	ARCH, BUILDING, NEW, REST AREA	LS - LUMP SUM	LS/SF	
0750 113	ARCH, BUILDING, NEW, WEIGH STATION	LS - LUMP SUM	LS/SF	
0750 115	ARCH, BUILDING, NEW, OFFICE	LS - LUMP SUM	LS/SF	
0750 117	ARCH, BUILDING, NEW, STORAGE/MECHANICAL	LS - LUMP SUM	LS/SF	
0750 118	ARCH, BUILDING, NEW, UNCOV STOR	LS - LUMP SUM	LS/SF	
0750 119	ARCH, BUILDING, NEW, OTHER BUILDING	LS - LUMP SUM	LS/SF	
0750 151	ARCHITECT, BUILDING, REHAB, REST AREA	LS - LUMP SUM	LS/SF	
0750 153	ARCH, BUILDING, REHAB, WEIGH STATION	LS - LUMP SUM	LS/SF	
0750 157	ARCH, BUILDING, REHAB STORAGE	LS - LUMP SUM	LS/SF	
0750 160	ARCH, BUILDING,REMOVE	LS - LUMP SUM	LS/SF	
0750 167	ARCH, BUILDING, REM STORAGE	LS - LUMP SUM	LS/SF	
0751 7	ARCHITECTURAL- ROOF REPAIRS	LS - LUMP SUM	LS/SF	
0770 1101	MCSAW BUILDING, F&I, ENFORCEMENT/ADMIN	LS - LUMP SUM	LS/SF	
0770 1102	MCSAW BUILDING, F&I, COMFORT STATION	LS - LUMP SUM	LS/SF	
0770 1103	MCSAW BUILDING, F&I, INSPECTION BARN	LS - LUMP SUM	LS/SF	
0770 1210	MCSAW BUILDING, REHAB, ARCH/STRUCTURAL	LS - LUMP SUM	LS/SF	
0770 1220	MCSAW BUILDING, REHAB, HVAC	LS - LUMP SUM	LS/SF	
0770 1230	MCSAW BUILDING, REHAB, ELECTRICAL	LS - LUMP SUM	LS/SF	
0770 1250	MCSAW BUILDING, REHAB, PLUMBING	LS - LUMP SUM	LS/SF	

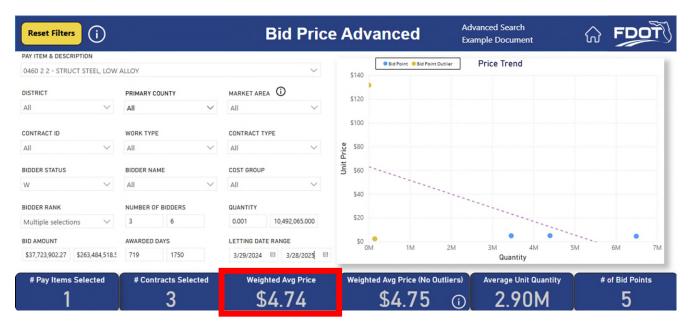
Check Statewide Values

Filter Pay Item: 0460 2 2 (Structural Steel, Low Alloy)

Filter Bidder Status: W (Winning Bids Only)

Filter Letting Date Range: 3/29/2024 to 3/28/2025

Filter Location: Statewide (No Filter)



BASELINE RESULT: (\$4.74 – Statewide Weighted Average – Winning Bids)

Note: 1 Pay Item, 3 Contracts, and 5 Bid Data Points

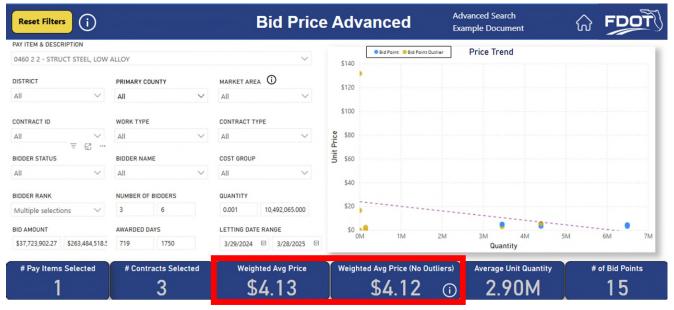
Change to Fair Market Value

Filter Bidder Status: Clear Filter (Click Eraser)

Filter Bidder Rank: Fair Market Value (Select 1, 2, and 3) - Notice: Higher than ALL Bids (1-6)

\$4.11 Weighted Average Price and \$4.01 Weighted Average Price (No Outliers)

Filter Location: Statewide (No Filter)



RESULT: (Decrease in cost of \$0.50 per LB from the Statewide Value)

Note: 1 Pay Item, 3 Contracts, and 15 Bid Data Points

Scroll Table to View Primary County

Unit Price Bid	Outlier	Hybrid Unit Measure	Hybrid Item Quantity	Hybrid Unit Price Bid	District	Primary County	Market Area	Bidder Award	Bidder Count	Bid Rank
\$0.10	Yes	LB - POUND	145,260.00	\$0.00	Turnpike	86 - BROWARD	12	L	6	3
\$58,850.00	Yes	LB - POUND	145,260,00	\$0.41	Turnpike	86 - BROWARD	12	L	6	2
\$336,400.00	Yes	LB - POUND	145,260,00	\$2.32	Turnpike	86 - BROWARD	12	W	6	1
\$0.01	Yes	LB - POUND	1,671.00	\$0.00	Turnpike	87 - MIAMI-DADE	13	L	3	3
\$27,500.00	Yes	LB - POUND	1,671.00	\$16.46	Turnpike	87 - MIAMI-DADE	13	L	3	2
\$220,000.00	Yes	LB - POUND	1,671,00	\$131.66	Turnpike	87 - MIAMI-DADE	13	W	3	1
\$20,000,000.00	No	LB - POUND	6,496,610.00	\$3.08	District 6	87 - MIAMI-DADE	13	L	3	2
\$26,400,000.00	No	LB - POUND	6,496,610.00	\$4.06	District 6	87 - MIAMI-DADE	13	L	3	3
\$29,234,622.10	No	LB - POUND	6,496,610.00	\$4.50	District 6	87 - MIAMI-DADE	13	W	3	1
\$14,000,000.00	No	LB - POUND	4,401,718.00	\$3.18	District 6	87 - MIAMI-DADE	13	L	3	2
\$22,000,000.00	No	LB - POUND	4,401,718.00	\$5.00	District 6	87 - MIAMI-DADE	13	W	3	1
\$24,100,000.00	Yes	LB - POUND	4,401,718.00	\$5.48	District 6	87 - MIAMI-DADE	13	L	3	3
\$10,000,000.00	Yes	LB - POUND	3,459,328.00	\$2.89	District 6	87 - MIAMI-DADE	13	L	3	2
\$16,550,000.00	No	LB - POUND	3,459,328.00	\$4.78	District 6	87 - MIAMI-DADE	13	L	3	
\$17,000,000.00	No	LB - POUND	3,459,328.00	\$4.91	District 6	87 - MIAMI-DADE	13	W	3	1

Note: Data is only available for Broward and Miami-Dade counties

Scroll Table to End

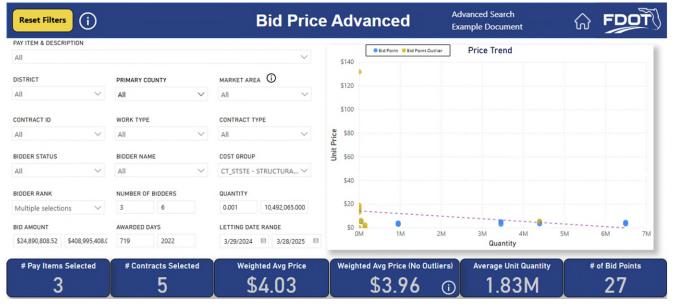
Letting Type	Cost Group
District	CT_STSTE - STRUCTURAL STEEL - ENGLISH (COST TRENDS)
District	CT_STSTE - STRUCTURAL STEEL - ENGLISH (COST TRENDS)
District	CT_STSTE - STRUCTURAL STEEL - ENGLISH (COST TRENDS)
District	CT_STSTE - STRUCTURAL STEEL - ENGLISH (COST TRENDS)
District	CT_STSTE - STRUCTURAL STEEL - ENGLISH (COST TRENDS)
District	CT_STSTE - STRUCTURAL STEEL - ENGLISH (COST TRENDS)
Central Office	CT_STSTE - STRUCTURAL STEEL - ENGLISH (COST TRENDS)
Central Office	CT_STSTE - STRUCTURAL STEEL - ENGLISH (COST TRENDS)
Central Office	CT_STSTE - STRUCTURAL STEEL - ENGLISH (COST TRENDS)
Central Office	CT_STSTE - STRUCTURAL STEEL - ENGLISH (COST TRENDS)
Central Office	CT_STSTE - STRUCTURAL STEEL - ENGLISH (COST TRENDS)
Central Office	CT_STSTE - STRUCTURAL STEEL - ENGLISH (COST TRENDS)
Central Office	CT_STSTE - STRUCTURAL STEEL - ENGLISH (COST TRENDS)
Central Office	CT_STSTE - STRUCTURAL STEEL - ENGLISH (COST TRENDS)
Central Office	CT_STSTE - STRUCTURAL STEEL - ENGLISH (COST TRENDS)

Note: Dataset part of Structural Steel Cost Group

Check the Entire Cost Group

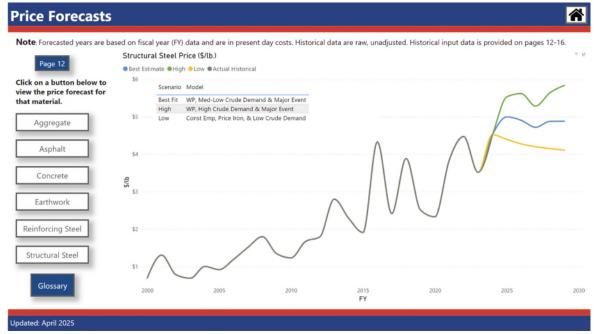
Filter Cost Group: CT_STSTE Structural Steel

Filter Pay Item: Click Eraser - Clear Individual Filter



Note: 3 Pay Items, 5 Contracts, and 27 Bid Data Points

Review Price Forecast for Structural Steel *Link*



Note: Likely increase in per unit cost year over year

Review Cost Trends for Structural Steel *Link*



Determine a likely unit cost based on all available information knowing the quantities of 1M+ are driving the weighted average prices.

Example 6: Likely Bidders

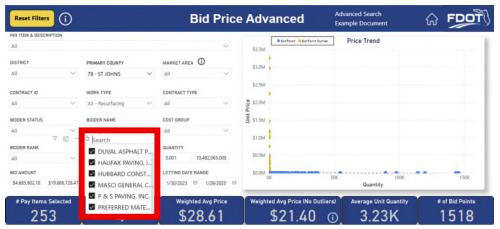
 Your resurfacing project is in St Augustine. You're determining likely bidders for the project.

Filter Primary County: 78 - St Johns

Filter Work Type: Resurfacing

Filter Letting Date Range: 1/30/2023 to 1/29/2025 (2 Years of Data)

Filter Bidder Rank: Clear Filter (Click Eraser)



Review & Select Bidder Names

Filter Bidder Name: Individually select all bidders. Six in this example.

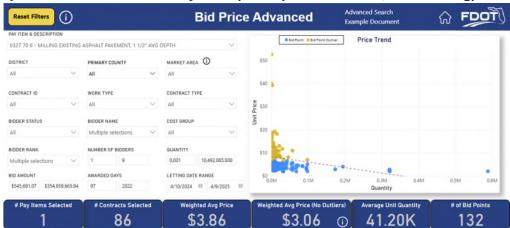
Filter Primary County: Clear Filter (Click Eraser)

Filter Work Type: Clear Filter (Click Eraser)

Filter Bidder Rank: Fair Market Value (Select 1, 2, and 3)

Filter Letting Date Range: 4/10/2024 to 4/9/2025 (Most Recent Year of Data)

Filter Pay Item: Select Desired Pay Item (Example: 0327 70 6, 1.5" Milling)



Filter other items as desired averaging what these six bidders submitted across Florida.