189465

LEVEL OF CONFIDENCE

Engineer's Estimate Checklist for Optimal Confidence

Engineer: Jason Leman - Murraysmith
Project name/number: E10681 Hillsdale South
Level of effort to prepare this estimate: 100% Design - 150 hours
Items included in this estimate: All the bid items needed to complete this rehab project per the plans and specifications
Items excluded in this estimate: None that I can foresee

Project Scope	Yes	No	Not Applicable	Comments / Description
Is the project scope clearly understood and well defined?	●	○	○	
Are Pay items identified according to project specifications?	●	○	○	
Are materials and quantities accurate for execution of the job?	●	○	○	
Is the extent of street resurfacing understood and accounted for?	●	○	○	
Is utility coordination and/or relocation, and potential project delay, understood and accounted for in this estimate?	●	○	○	
Are environmental and soil conditions understood, and are the extent and methods of any required disposal accounted for in this estimate?	●	○	○	
Has Traffic Control been estimated according to the project-specific conditions?	●	○	○	
Is the project scope clearly understood and well defined?	●	○	○	
Are project-specific mobilization costs understood and accounted for in this estimate?	●	○	○	
Have known extra work items, or force account items, been accounted for?	○	○	●	
Project Scope Comments:				

Project Schedule	Yes	No	Not Applicable	Comments / Description
Have availability and delivery time of important materials and equipment been checked?	●	○	○	
Has the contract time been determined with/by the Construction Manager?	●	○	○	
Have contract time cost impacts been accounted for in this estimate?	●	○	○	
Have construction season cost impacts been accounted for in this estimate?	●	○	○	
Are schedule constraints and/or schedule acceleration requirements understood, well defined, and accounted for in this estimate?	○	○	●	
Have unusual work time requirements (i.e., 24-hour work or limited street closure times) been accounted for in this estimate?	●	○	○	
Project Schedule Comments:				

Quality Assurance	Yes	No	Not Applicable	Comments / Description
Are quantity take-off calculations and back-up information documented?	●	○	○	
Are unit prices verified with vendors and sources documented?	●	○	○	
Are historical unit costs adjusted (to midpoint of construction) from projects of similar scale, similar site and similar construction conditions?	●	○	○	
Have non-standard items been estimated "bottom up"?	○	○	●	
Is a contingency in this estimate? If so, describe in the Description column to the right.	○	●	○	
Are "plug" estimates used? If so, describe in the Description column to the right.	○	●	○	
Was this estimate checked? (quantities and costs)	●	○	○	
Quality Assurance Comments:				

Bidding Environment	Yes	No	Not Applicable	Comments / Description
Is this project directed to the sheltered market and is this accounted for in this estimate?	○	●	○	
Has the time/season of advertising been factored into the estimate?	●	○	○	
Are circumstances known that would limit the bidding pool and is this accounted for?	●	○	○	
Bidding Environment Comments:				

Implementation Procedures for Capital Projects	Yes	No	Not Applicable	Comments / Description
Does the project construction estimate agree with the current budget?	●	○	○	
If "No," has a Trend Alert been prepared?	○	○	●	
Implementation Comments:				

Project Estimate Confidence Level Rating Index Defined **Exhibit A**

COMPLETE	• Final Payment made. • Post project assessment completed comparing project estimate, amount of contract award and total amount of change orders issued during project. • Total project costs reported.
OPTIMAL	• Project scope and specifications clearly understood and well defined. • Clear understanding of materials, size and quantities needed to execute job. • Project estimate unlikely to change (generally at 90% or greater design and engineering phase). • Schedule and special site conditions understood. • Total Project contingencies (including project management, design, engineering, plus construction) range between 10%-15%.
HIGH	• Project scope and specifications nearly complete but still subject to change (70%-90% design and engineering phase). • Materials, size and quantities needed to execute job have been defined but subject to minor changes. • Schedule understood. • Total Project contingencies (including project management, design, engineering, plus construction) may range between 20%-30%.
MODERATE	• Project scope defined but lacks details. • Project specifications incomplete (60%-70% design and engineering phase). • Total Project contingencies (including project management, design, engineering, plus construction) may range between 30%-40%.
LOW	• Project scope is a conceptual "vision" with limited detail. • Project cost is an educated guesstimate. Limited technical information available and/or limited analysis performed. • Specifications still in infancy stage. (Less than 50% design and engineering phase). • Total Project contingencies (including project management, design, engineering, plus construction) may range up to or exceed 50%.