

HOLLYWOOD-GRANT PARK SEWER AND STORMWATER PROJECT

PIPE WORK—NIGHT

PIPE WORK—DAY

INTERSECTIONS WITH STORMWATER FACILITIES

Simplified map - not to scale ES 1475 rev DEC 2014

Engineer's Estimate Checklist for **High Confidence**

Project Name/Number: Hollywood-Grant Park Sewer Rehabilitation Project – E10384

Engineer: Jill Hutchinson, Design Engineer & Project Manager; Steven Burger, Engineer of Record

Level of Effort to prepare this estimate: 260 Hours

Items included in this estimate: All bid items necessary to complete project as required in plans and specifications.

Items excluded in this estimate: _____

Project Scope

	<u>Yes</u>	<u>No</u>	<u>Not Applicable</u>
Is the project scope clearly understood and well defined?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are pay items identified according to project Specifications?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are materials and quantities accurate for execution of the job?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is the extent of street resurfacing understood and accounted for?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is utility coordination and/or relocation, and potential project delay, understood and accounted for in this estimate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are environmental and soil conditions understood, and are the extent and methods of any required disposal accounted for in this estimate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has Traffic Control been estimated according to project-specific conditions?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are project-specific mobilization costs understood and accounted for in this estimate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have known extra work items, or force account items, been accounted for?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments: _____			

Project Schedule

	<u>Yes</u>	<u>No</u>	<u>Not Applicable</u>
Have availability and delivery time of important materials and equipment been checked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has the contract time been determined with/by the Construction Manager?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have contract time cost impacts been accounted for in this estimate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have construction season cost impacts been accounted for in this estimate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are schedule constraints and/or schedule acceleration requirements understood, well defined, and accounted for in this estimate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have unusual work time requirements (i.e. 24-hr work or limited street closure times) been accounted for in this estimate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments: <u>The Special Provisions allow for an 18 month contract duration due to several locations requiring night work: NE Fremont St, NE Halsey St, NE 47th Ave.</u>			

Quality Assurance

	<u>Yes</u>	<u>No</u>	<u>Not Applicable</u>
Are quantity take-off calculations and back-up information documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are unit prices verified with vendors and sources documented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Are historical unit costs adjusted (to midpoint of construction) from projects of similar scale, similar site and similar construction conditions?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have non-standard items been estimated "bottom up"?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is a contingency in this estimate? If so, describe: _____	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Are "plug" estimates used? If so, describe: _____	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Was this estimate checked? (quantities and costs)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments: <u>Unit prices for standard bid items have not been verified with vendors. They are based on bid tabs from other Large Scale Rehab projects that have been let in the past 3-4 years. Vitrified Clay Pipe (VCP), is a non-standard bid item and is in the process of becoming a BES standard material. Unit prices for VCP were estimated "bottom up" using material estimates from two VCP manufacturers in California (inclusive of shipping), and labor costs for RCP (which has similar handling qualities as VCP). The VCP prices used in this estimate were presented to the Technical Review Committee for the Tabor-Powell Phase I Sewer Rehab project on December 9, 2014. This estimate is considered "high" and not optimal because VCP has not been used on a sewer rehab project in more than 5 years.</u>			

Bidding Environment

	<u>Yes</u>	<u>No</u>	<u>Not Applicable</u>
Is this project directed to the sheltered market and is this accounted for in this estimate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Has the time/season of advertising been factored into this estimate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are circumstances known that would limit the bidding pool and is this accounted for?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments: <u>Bonding limits may affect pool of eligible bidders. There are at least 5 contractors that currently qualify to bid at this amount. Additional contractors may choose to increase their bond limits in order to qualify to bid.</u>			

*Engineer's Estimate Checklist for **High Confidence***

Implementation Procedures for Capital Projects

Does the project construction estimate agree with the current budget?

If "No", has a Trend Alert been prepared?

Comments: _____

Yes

No

Not Applicable

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