CERTIFICATE OF ACKNOWLEDGEMENT OF RECEIPT OF ADDENDUM

THE CITY OF READING

ADDENDUM NO. 2 Project: Waste Disposal Service

DUE DATE: July 10, 2018

This addendum is issued for the purpose of clarifying the intent of the contract documents, for making necessary corrections, deletions, and additions to the documents.

Transportation Cost Calculations

When evaluating submissions, the City of Reading will factor in the cost per ton of transporting municipal solid waste to each facility. The cost per ton the City will use to make this evaluation is:

$$\$\mathbf{0.296} * \boldsymbol{Distance}\ (miles)$$

Where ***Distance*** is the **round-trip driving distance from the City's Public Works building (503 N 6th St) to the entry point of each disposal facility**. You must submit documentation in the form of Google Maps directions or map showing this distance. You may use the shortest distance between the two points.

Variables

Variable	Value	Units	Basis
Fuel Efficiency	3.00	Miles per Gallon	Based on fuel consumption analysis.
Burden Rate	35.00	Dollars per Hour	Burden rate (wages, benefits, etc.) of staff
Trip Frequency	229.00	Trips per Year	Average 2016, 2017, 2018 YTD
Quantity of Waste	1422.00	Tons per Year	Average 2016 and 2017 MSW and sweepings only (no tires)
Average Speed	30.00	Miles per Hour	Average vehicle speed, estimated using average miles and drive time to disposal sites within 15 miles
Fuel Cost	2.00	Dollars per Gallon	Average of fuel costs paid by City
Distance	Varies	Miles	Round-trip driving distance to facility from Public Works Building (503 N 6th St) to facility entry point.

Calculations

$$Transport\ cost\ per\ ton = \frac{\text{Cost per trip}}{\text{Tons per trip}} = \frac{(\$1.84 * Distance)}{6.21\ tons} = \$\mathbf{0.296} * \boldsymbol{Distance}$$

$$Tons\ per\ Trip = \frac{\text{Quantity of Waste}}{\text{Trip Frequency}} = \frac{1422\ \text{tons}}{229\ \text{trips}} = 6.21\ \text{tons/trip}$$

$$Cost\ per\ Trip = (\text{Fuel Cost} + \text{Staff Cost}) = \$1.84 * \text{Distance}$$

$$Fuel\ Cost = (\text{Fuel Price}) * \left(\frac{\text{Distance}}{\text{Fuel Efficiency}}\right) = (\$2.00) * \left(\frac{\text{Distance}}{3.0\ \text{mpg}}\right) = \$0.67 * Distance$$

$$Staff\ Cost = (\text{Burden Rate}) * (\text{Time}) = (\$35.00) * \left(\frac{\text{Distance}}{\text{Average Speed}}\right) = (\$35.00) * \left(\frac{\text{Distance}}{3\text{omph}}\right)$$
$$= \$1.17 * Distance$$

I HEREBY ACKNOWLEDGE RECEIPT OF THIS ADDENDUM NO.2.

Firm Name: _____

Authorized Signature: _____

Title: _____

Name: _____

Date: _____