



WARD, GETZ & ASSOCIATES, PLLC
TEXAS REGISTERED ENGINEERING FIRM F-9756
4526 Research Forest Dr, Suite 175
The Woodlands, TX 77381
713.789.1900

Buffalo Springs Drive Roadway Reconstruction & Traffic Signal at Highway 105 W and Buffalo Springs Drive

City of Montgomery

This proposal is submitted pursuant to and in accordance with that certain Professional Services Agreement dated May 25, 2021, by and between Ward, Getz & Associates, PLLC and the City of Montgomery (the "City").

WGA understands the City plans to reconstruct Buffalo Springs Drive from Highway 105 W to approximately 1100 LF North of the intersection of Highway 105 W and Buffalo Springs Drive.

SCOPE OF WORK

- *Preliminary & Design Phase Services*
 - *WGA will create a preliminary layout and coordinate with the City for approval. This phase will include internal/ external project kickoff meetings and the establishment of the design and schedule.*
 - *WGA will develop drawings and specifications for the successful construction of the full roadway reconstruction along Buffalo Springs Drive.*
 - *Design changes initiated by the Client after the design is complete may result in a request for additional authorization.*
 - *WGA will develop contract documents for the signal installation at the intersection of Highway 105 W and Buffalo Springs Drive based on the engineered drawings and specifications to be provided by Texas Department of Transportation (TxDOT)*

- *Construction Administration*
 - *Coordinate advertising for bids, hold a pre-bid conference, answer questions from bidders, hold bid opening, prepare bid tabulation, and prepare recommendation of award. Signal and roadway reconstruction projects will be bid separately.*
 - *Prepare construction contracts and coordinate execution of the same for both signal and roadway reconstruction contracts.*
 - *Issue notices to proceed and hold pre-construction meetings.*
 - *Review of construction submittals and RFIs for both contracts.*
 - *Preparation of pay estimates, change orders, and other associated construction documents for both contracts.*
 - *General oversight and coordination of both construction contracts.*



WARD, GETZ & ASSOCIATES, PLLC
 TEXAS REGISTERED ENGINEERING FIRM F-9756
 4526 Research Forest Dr, Suite 175
 The Woodlands, TX 77381
 713.789.1900

- *Field Project Representation*
 - *Onsite inspection by a Field Project Representative for approximately 10 hours per week (including travel time) for the duration of the projected contract periods of performance (120 days).*
 - *Onsite inspection by the project team throughout the duration of the projects to attend periodic site visits, final walkthrough inspections, etc.*

- *Additional Services and Reimbursable Expenses*
 - *Includes construction staking, construction materials testing, advertising expenses, and other reimbursable expenses for both the signal and roadway reconstruction contracts.*
 - *Construction services over 20% of original contract periods of performance.*

ENGINEERING COST

The cost to perform the scope of services described above is as follows:

Preliminary & Design Phase (Roadway) -	\$75,000	(Lump Sum)
Preliminary & Design Phase (Signal Bid Package) -	\$7,500	(Lump Sum)
Bidding Expenses (Roadway) -	\$2,500	(Lump Sum)
Bidding Expenses (Signal) -	\$2,500	(Lump Sum)
Construction Administration (Roadway) -	\$15,000	(Time and Materials)
Construction Administration (Signal) -	\$12,000	(Time and Materials)
Field Project Representation (Roadway) -	\$20,000	(Time and Materials)
Field Project Representation (Signal) -	\$15,000	(Time and Materials)
Additional Services & Reimbursable Expenses -	\$25,000	(Time and Materials)
Surveying and Geotechnical Investigation-	\$27,000	(Time and Materials)

WGA requests City Council’s authorization to proceed with the preparation of the design plans for the Buffalo Springs Drive Roadway Reconstruction on a lump sum and time and materials basis, as described above.

SCHEDULE

Authorization to Proceed	1	calendar days*
Survey	45	calendar days
Design	90	calendar days
Bidding	30	calendar days
Contracts	30	calendar days
Construction	120	calendar days
TOTAL DURATION	316	calendar days

*If approved, the effective start date is the following business day from the date of acceptance.

**Buffalo Springs Drive
Full Depth Reconstruction**

Prepared by: Ward Getz and Associates

Date: August 1, 2023

SCOPE 2 - 8" CONCRETE ROADWAY; 1,100'				
DESCRIPTION	UNIT	QTY	UNIT COST	EXTENSION
CONCRETE ROADWAY				
PROOF ROLL SUBGRADE	HR	8	\$95.00	\$ 1,000.00
CEMENT TREAT SUBGRADE (NEW MATERIAL) (8")	SY	6200	\$4.00	\$ 25,000.00
CEMENT	TON	1400	\$150.00	\$ 210,000.00
CONCRETE PAVEMENT (REINF-CRCP) (8")	SY	6200	\$75.00	\$ 465,000.00
ROADWAY EXCAVATION	CY	4200	\$10.00	\$ 42,000.00
CONC CURB (TY II)	LF	250	\$8.00	\$ 2,000.00
BLADING (DITCH REGRADING)	STA	12	\$100.00	\$ 1,200.00
SIGNING AND PAVEMENT MARKINGS				
REFL PAV MRK TY II (W)6"(SLD)(100MIL)	LF	2500	\$1.00	\$ 2,500.00
REFL PAV MRK TY II (Y)6"(SLD)(100MIL)	LF	3600	\$1.00	\$ 3,600.00
REFL PAV MRK TY II (W) 24" (SLD)	LF	50	\$5.00	\$ 250.00
REFL PAV MRK TY II (W) (ARROW)	EA	10	\$65.00	\$ 650.00
REFL PAV MRK TY II (W) (WORD)	EA	4	\$75.00	\$ 300.00
SIGNING	LS	1	\$12,000.00	\$ 12,000.00
TRAFFIC CONTROL PLAN				
BARRIER	LF	150	\$60.00	\$ 9,000.00
BARRICADES, SIGNS AND TRAFFIC HANDLING	LS	1	\$2,500.00	\$ 2,500.00
SW3P				
SILT FENCE	LF	2200	\$2.50	\$ 5,500.00
ROCK FILTER DAMS	LF	200	\$40.00	\$ 8,000.00
EROSION CONTROL LOGS	LF	200	\$4.00	\$ 800.00
CONSTRUCTION EXITS	SY	200	\$35.00	\$ 7,000.00
MISCELLANEOUS				
MOBILIZATION, BONDS, AND INSURANCE	LS	1	\$50,000.00	\$ 50,000.00
IRRIGATION SYSTEM	LS	1	\$12,000.00	\$ 12,000.00
ELECTRICAL SLEEVES	LS	1	\$5,000.00	\$ 5,000.00
SITE RESTORATION	LS	1	\$10,000.00	\$ 10,000.00
SIGNAL				
SIGNAL	LS	1	\$350,000.00	\$ 350,000.00
CONTINGENCY	LS	20%		\$ 245,000.00
			CONSTRUCTION SUB TOTAL	\$ 1,470,300
ENGINEERING, SURVEYING, TESTING, ETC.				
DESIGN - SIGNAL BID PACKAGE				\$ 7,500.00
DESIGN - ROADWAY				\$ 75,000.00
BIDDING - SIGNAL				\$ 2,500.00
BIDDING - ROADWAY				\$ 2,500.00
ADDITIONAL SERVICES - UTILITY COORDINATION				\$ 10,000.00
CONSTRUCTION ADMIN - SIGNAL				\$ 12,000.00
CONSTRUCTION ADMIN - ROADWAY				\$ 15,000.00
INSPECTION - SIGNAL				\$ 15,000.00
INSPECTION - ROADWAY				\$ 20,000.00
SURVEYING (TOPO & STAKING)				\$ 13,000.00
GEOTECHNICAL INVESTIGATION				\$ 12,000.00
REIMBURSIBLES (TESTING, REPRODUCTION, ADVERTISING)				\$ 15,000.00
			TOTAL	\$ 1,669,800