

BIRKHOFF, HENDRICKS & CARTER, L.L.P.
PROFESSIONAL ENGINEERS

Project No. 4092-100

Client: City of Forney

Date: 27-Apr-18

Project: Brooklyn Village Connector - **OPTION 1**

Brazos Street Extension
 From: Pinson Road
 To: US Highway 80 Frontage Road

By: G.C.H. & J.T.L.

ENGINEER'S OPINION OF CONSTRUCTION COST

Item No.	Description	Quantity	Unit	Price	Amount
Option 1 includes 3400-Feet of 37-foot B-B Collector (with 60-ft ROW) constructed with 7-Inch Reinforced Concrete Pavement including Curb and Gutter and Storm Sewers					
Project Length				3400	feet
Length of Reinforced Concrete Alley				125	feet
Concrete Alley Width				10	feet
Concrete Street Width				37	feet B-B
Reinforced Concrete Pavement Thickness				7	inches
Length of Right of Way Acquisition				2300	feet
Right of Way Width				60	feet
Embankment Height				5	feet
Embankment Length				550	feet
Length of Sidewalk				0	feet
Length of Channel				0	feet
101	Right-of-Way Preparation, Mobilization Bonds & Insurance	34	STA	\$ 1,500.00	\$ 51,000.00
102	Furnish & Install 7-Inch Reinforced Concrete Pavement	13,978	S.Y.	\$ 45.00	\$ 629,000.00
103	Furnish & Install 6-Inch Lime Treated Subgrade	14,733	S.Y.	\$ 4.00	\$ 58,940.00
104	Furnish & Install Hydrated Lime (8% or 64 lbs/SY)	471	Tons	\$ 150.00	\$ 70,720.00
105	Furnish & Install 4-Inch Thick 8-Foot Wide Reinforced Concrete Sidewalks	0	S.Y.	\$ 30.00	\$ -
106	Furnish & Install Barrier Free Ramps	0	Ea.	\$ 1,500.00	\$ -
107	Unclassified Street Excavation	7,367	C.Y.	\$ 12.00	\$ 88,400.00
108	Imported Fill (Embankment)	1,528	C.Y.	\$ 15.00	\$ 22,920.00
109	Reinforced Concrete Alley	139	S.Y.	\$ 30.00	\$ 4,170.00
Paving Improvements Subtotal:					\$ 925,150.00
110	Furnish & Install Underground Storm Sewer System (Piping, Culverts and Inlets)	25% of Paving Subtotal			\$ 231,300.00
111	Retaining Wall	2,750	S.F.	\$ 50.00	\$ 137,500.00
112	Furnish, Install & Maintain Hydromulch	8,689	S.Y.	\$ 2.00	\$ 17,380.00
113	Furnish & Install 4-Inch Topsoil in Parkways	8,689	S.Y.	\$ 1.50	\$ 13,030.00
114	Furnish & Install Permanent Pavement Markings & Striping	6,800	L.F.	\$ 4.00	\$ 27,200.00
115	Furnish & Install Roadway Signage	1	L.S.	\$ -	\$ -
116	Install 6-Foot Tall Brick Screening Wall	1,200	L.F.	\$ 200.00	\$ 240,000.00

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Item No.	Description	Quantity	Unit	Price	Amount
117	Furnish, Install, Maintain & Remove Erosion Control Devices	1	L.S.	\$ 5,000.00	\$ 5,000.00
118	Furnish Storm Water Pollution Prevention Plan (SW3P)	1	L.S.	\$ 5,000.00	\$ 5,000.00
119	Furnish, Install, Maintain & Remove Traffic Control Measures	18	Mo.	\$ 2,000.00	\$ 36,000.00
120	Unclassified Channel Excavation	0	C.Y.	\$ 25.00	\$ -
121	15-Foot Wide 6-Inch Concrete Pilot Channel	0	S.Y.	\$ 45.00	\$ -
	Paving & Drainage Subtotal:				\$ 1,637,560.00
	Contingencies and Miscellaneous Items:			15%	\$ 245,700.00
	Paving and Drainage Total:				\$ 1,883,260.00
	Construction Cost per Linear Foot:				\$ 554.00
	Surveying, Engineering, Geotech, Bidding & Construction Administration			15%	\$ 282,489.00
	Flood Study	1	L.S.	\$15,000.00	\$ 15,000.00
	FEMA Letter of Map Revision (LOMR)	1	L.S.	\$50,000.00	\$50,000.00
	Environmental Reporting & FEMA/USACE Permits	1	L.S.	\$75,000.00	\$ 75,000.00
	Inspection, Quality Control and Materials Testing:			2.5%	\$ 47,080.00
	60-Foot Wide Right-of-Way Acquisition	3.17	Ac.	\$100,000	\$ 316,804.41
	Displaced Improved Lots	2	Ea.	\$30,000.00	\$ 60,000.00
	Utility (Electric) Relocation	2,200	L.F.	\$150.00	\$ 330,000.00
	Soft Cost Sub-Total:				\$ 1,176,373.41
	Project Grand Total:				\$ 3,059,633.41
	USE:				\$ 3,100,000.00
	Project Cost per Linear Foot:				\$ 911.76