

**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
<b>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</b>					
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
<b>Paving Improvements Subtotal:</b>					<b>\$ 925,150.00</b>
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	\$ -
	<b>Paving &amp; Drainage Subtotal:</b>				\$ 1,637,560.00
	<b>Contingencies and Miscellaneous Items:</b>			15%	\$ 245,700.00
	<b>Paving and Drainage Total:</b>				\$ 1,883,260.00
	<b>Construction Cost per Linear Foot:</b>				\$ 554.00
	<b>Surveying, Engineering, Geotech, Bidding &amp; Construction Administration</b>			15%	\$ 282,489.00
	<b>Flood Study</b>	1	L.S.	\$15,000.00	\$ 15,000.00
	<b>FEMA Letter of Map Revision (LOMR)</b>	1	L.S.	\$50,000.00	\$50,000.00
	<b>Environmental Reporting &amp; FEMA/USACE Permits</b>	1	L.S.	\$75,000.00	\$ 75,000.00
	<b>Inspection, Quality Control and Materials Testing:</b>			2.5%	\$ 47,080.00
	<b>60-Foot Wide Right-of-Way Acquisition</b>	3.17	Ac.	\$100,000	\$ 316,804.41
	<b>Displaced Improved Lots</b>	2	Ea.	\$30,000.00	\$ 60,000.00
	<b>Utility (Electric) Relocation</b>	2,200	L.F.	\$150.00	\$ 330,000.00
	<b>Soft Cost Sub-Total:</b>				\$ 1,176,373.41
	<b>Project Grand Total:</b>				\$ 3,059,633.41
	<b>USE:</b>				\$ 3,100,000.00
	<b>Project Cost per Linear Foot:</b>				\$ 911.76