

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 2**

Longhorn Drive xtension
 From: Wrangler Avenue
 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 2 includes 1,100-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				1100	feet
Length of Reinforced Concrete Alley				0	feet
Concrete Alley Width				0	feet
Concrete Street Width				37	feet B-B
Reinforced Concrete Pavement Thickness				7	inches
Length of Right of Way Acquisition				1100	feet
Right of Way Width				60	feet
Embankment Height				5	feet
Embankment Length				900	feet
Length of Sidewalk				250	feet
Length of Channel				1020	feet
101	Right-of-Way Preparation, Mobilization Bonds & Insurance	11	STA	\$ 1,500.00	\$ 16,500.00
102	Furnish & Install 7-Inch Reinforced Concrete Pavement	4,522	S.Y.	\$ 45.00	\$ 203,500.00
103	Furnish & Install 6-Inch Lime Treated Subgrade	4,767	S.Y.	\$ 4.00	\$ 19,070.00
104	Furnish & Install Hydrated Lime (8% or 64 lbs/SY)	153	Tons	\$ 150.00	\$ 22,880.00
105	Furnish & Install 4-Inch Thick 8-Foot Wide Reinforced Concrete Sidewalks	222	S.Y.	\$ 30.00	\$ 6,670.00
106	Furnish & Install Barrier Free Ramps	2	Ea.	\$ 1,500.00	\$ 3,000.00
107	Unclassified Street Excavation	2,383	C.Y.	\$ 12.00	\$ 28,600.00
108	Imported Fill (Embankment)	2,500	C.Y.	\$ 15.00	\$ 37,500.00
109	Reinforced Concrete Alley	0	S.Y.	\$ 30.00	\$ -
Paving Improvements Subtotal:					\$ 337,720.00
110	Furnish & Install Underground Storm Sewer System (Piping, Culverts and Inlets)	40% of Paving Subtotal			\$ 84,500.00
111	Retaining Wall	4,500	S.F.	\$ 50.00	\$ 225,000.00
112	Furnish, Install & Maintain Hydromulch	2,811	S.Y.	\$ 2.00	\$ 5,620.00
113	Furnish & Install 4-Inch Topsoil in Parkways	2,811	S.Y.	\$ 1.50	\$ 4,220.00
114	Furnish & Install Permanent Pavement Markings & Striping	1,100	L.F.	\$ 4.00	\$ 4,400.00
115	Furnish & Install Roadway Signage	1	L.S.	\$ -	\$ -
116	Install 6-Foot Tall Brick Screening Wall	0	L.F.	\$ 200.00	\$ -
117	Furnish, Install, Maintain & Remove Erosion Control Devices	1	L.S.	\$ 5,000.00	\$ 5,000.00

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Item No.	Description	Quantity	Unit	Price	Amount
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	1,613	C.Y.	\$ 25.00	\$ 40,324.07
121	15-Foot Wide 6-Inch Concrete Pilot Channel	1,700	S.Y.	\$ 45.00	\$ 76,500.00
	Paving & Drainage Subtotal:				\$ 707,460.00
	Contingencies and Miscellaneous Items:			15%	\$ 106,200.00
	Paving and Drainage Total:				\$ 813,660.00
	Construction Cost per Linear Foot:				\$ 740.00
	Surveying, Engineering, Geotech, Bidding & Construction Administration			15%	\$ 122,049.00
	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%	\$ 20,340.00
	60-Foot Wide Right-of-Way Acquisition	1.52	Ac.	\$100,000	\$ 151,515.15
	Displaced Improved Lots	1	Ea.	\$30,000	\$ 30,000.00
	Utility (Electric) Relocation	600	L.F.	\$150	\$ 90,000.00
	Soft Cost Sub-Total:				\$ 553,904
	Project Grand Total:				\$ 1,367,564
	USE:				\$ 1,400,000
	Project Cost per Linear Foot:				\$ 1,273