

Russell St., Upland Dr. & Woodmanor Ct. Road Reconfiguration Project
 File #: 2015-028 Bid #: 4447

Engineer's Estimate

Bailey Excavating, Inc.
 1073 Toro Drive
 Jackson, MI 49201

Douglas N Higgins, Inc.
 3390 Travis Pointe Rd Suite #7644
 Ann Arbor, MI 48108

Fonson Company, Inc.
 Whitmore Lk Rd
 Brighton, MI 48116

Birkenstock Construction LLC
 2528 Harte Dr,
 Brighton, MI 48114

Pavex Corporation
 2654 Van Horn Rd.,
 Trenton, MI 48183

Item	Description	Unit	Estimated		Total Cost		Total Cost		Total Cost		Total Cost		Total Cost		Total Cost		
			Quantity	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price
130	Protective Fencing	LF	325.0	\$ 4.15	\$ 1,348.75	\$ 7.50	\$ 2,437.50	\$ 5.00	\$ 1,625.00	\$ 6.00	\$ 1,950.00	\$ 5.00	\$ 1,625.00	\$ 5.00	\$ 1,625.00	\$ 5.00	\$ 1,625.00
135	Tree Removal, 8" and larger	Each	3.0	\$ 1,100.00	\$ 3,300.00	\$ 500.00	\$ 1,500.00	\$ 1,250.00	\$ 3,750.00	\$ 1,300.00	\$ 3,900.00	\$ 1,000.00	\$ 3,000.00	\$ 1,250.00	\$ 3,750.00	\$ 1,250.00	\$ 3,750.00
140	Exploratory Excavations (0-10 feet deep)	Each	4.0	\$ 980.00	\$ 3,920.00	\$ 1,000.00	\$ 4,000.00	\$ 500.00	\$ 2,000.00	\$ 1,420.00	\$ 5,680.00	\$ 750.00	\$ 3,000.00	\$ 1,100.00	\$ 4,400.00	\$ 1,100.00	\$ 4,400.00
201	General Conditions, Max. \$15,000	LS	1.0	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 12,000.00	\$ 12,000.00	
202	Digital Audio Visual Coverage	LS	1.0	\$ 5,000.00	\$ 5,000.00	\$ 1,500.00	\$ 1,500.00	\$ 2,000.00	\$ 2,000.00	\$ 975.00	\$ 975.00	\$ 1,500.00	\$ 1,500.00	\$ 1,025.00	\$ 1,025.00	\$ 1,025.00	\$ 1,025.00
203	Minor Traffic Control, Modified, Max. \$8,000	LS	1.0	\$ 8,000.00	\$ 8,000.00	\$ 8,000.00	\$ 8,000.00	\$ 2,500.00	\$ 2,500.00	\$ 7,300.00	\$ 7,300.00	\$ 8,000.00	\$ 8,000.00	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00
204	Clean-Up & Restoration, Special	LS	1.0	\$ 13,000.00	\$ 13,000.00	\$ 20,000.00	\$ 20,000.00	\$ 4,500.00	\$ 4,500.00	\$ 6,200.00	\$ 6,200.00	\$ 10,000.00	\$ 10,000.00	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00
205	"No Parking" Signs	Each	12.0	\$ 35.00	\$ 420.00	\$ 80.00	\$ 960.00	\$ 150.00	\$ 1,800.00	\$ 70.00	\$ 840.00	\$ 70.00	\$ 840.00	\$ 70.00	\$ 840.00	\$ 70.00	\$ 840.00
206	Machine Grading, Modified, Russell	LS	1.0	\$ 25,000.00	\$ 25,000.00	\$ 11,000.00	\$ 11,000.00	\$ 13,000.00	\$ 13,000.00	\$ 13,000.00	\$ 13,000.00	\$ 17,500.00	\$ 17,500.00	\$ 18,580.00	\$ 18,580.00	\$ 18,580.00	\$ 18,580.00
207	Machine Grading, Modified, Woodmanor	LS	1.0	\$ 15,000.00	\$ 15,000.00	\$ 14,500.00	\$ 14,500.00	\$ 13,000.00	\$ 13,000.00	\$ 9,500.00	\$ 9,500.00	\$ 10,000.00	\$ 10,000.00	\$ 23,380.00	\$ 23,380.00	\$ 23,380.00	\$ 23,380.00
208	Machine Grading, Modified, Upland	LS	1.0	\$ 12,000.00	\$ 12,000.00	\$ 11,000.00	\$ 11,000.00	\$ 13,000.00	\$ 13,000.00	\$ 13,000.00	\$ 13,000.00	\$ 10,000.00	\$ 10,000.00	\$ 24,220.00	\$ 24,220.00	\$ 24,220.00	\$ 24,220.00
209	Remove and replace Park sign	LS	1.0	\$ 3,000.00	\$ 3,000.00	\$ 500.00	\$ 500.00	\$ 750.00	\$ 750.00	\$ 400.00	\$ 400.00	\$ 100.00	\$ 100.00	\$ 2,000.00	\$ 2,000.00	\$ 2,000.00	\$ 2,000.00
214	Split Rail Fence	LF	85.0	\$ 8.00	\$ 680.00	\$ 50.00	\$ 4,250.00	\$ 21.50	\$ 1,827.50	\$ 20.00	\$ 1,700.00	\$ 20.00	\$ 1,700.00	\$ 20.24	\$ 1,720.40	\$ 20.24	\$ 1,720.40
215	Split Rail Fence, post	Each	14.0	\$ 12.00	\$ 168.00	\$ 150.00	\$ 2,100.00	\$ 65.00	\$ 910.00	\$ 115.00	\$ 1,610.00	\$ 25.00	\$ 350.00	\$ 61.42	\$ 859.88	\$ 61.42	\$ 859.88
218	Infiltration Trench with Stone Reservoir, Aggregate 6A	LF	30.0	\$ 200.00	\$ 6,000.00	\$ 95.00	\$ 2,850.00	\$ 60.00	\$ 1,800.00	\$ 90.00	\$ 2,700.00	\$ 75.00	\$ 2,250.00	\$ 144.00	\$ 4,320.00	\$ 144.00	\$ 4,320.00
220	Non-woven geotextile fabric, biaxial or triaxial	SY	900.0	\$ 2.00	\$ 1,800.00	\$ 4.50	\$ 4,050.00	\$ 2.25	\$ 2,025.00	\$ 3.00	\$ 2,700.00	\$ 2.50	\$ 2,250.00	\$ 5.15	\$ 4,635.00	\$ 5.15	\$ 4,635.00
221	Infiltration Trench Undercutting	CY	75.0	\$ 15.00	\$ 1,125.00	\$ 45.00	\$ 3,375.00	\$ 75.00	\$ 5,625.00	\$ 97.00	\$ 7,275.00	\$ 50.00	\$ 3,750.00	\$ 80.00	\$ 6,000.00	\$ 80.00	\$ 6,000.00
225	6 inch Wrapped Underdrain	LF	110.0	\$ 25.00	\$ 2,750.00	\$ 25.00	\$ 2,750.00	\$ 15.00	\$ 1,650.00	\$ 27.00	\$ 2,970.00	\$ 35.00	\$ 3,850.00	\$ 24.00	\$ 2,640.00	\$ 24.00	\$ 2,640.00
226	6 inch SDR 35 PVC Underdrain Outlet	LF	15.0	\$ 30.00	\$ 450.00	\$ 34.50	\$ 517.50	\$ 18.00	\$ 270.00	\$ 80.00	\$ 1,200.00	\$ 35.00	\$ 525.00	\$ 50.00	\$ 750.00	\$ 50.00	\$ 750.00
227	Subgrade Undercutting - Type II	CY	100.0	\$ 35.00	\$ 3,500.00	\$ 25.00	\$ 2,500.00	\$ 35.00	\$ 3,500.00	\$ 45.00	\$ 4,500.00	\$ 30.00	\$ 3,000.00	\$ 70.00	\$ 7,000.00	\$ 70.00	\$ 7,000.00
232	HMA Pavement Leveling/Top - Low volume superpave	TON	100.0	\$ 140.00	\$ 14,000.00	\$ 193.00	\$ 19,300.00	\$ 200.00	\$ 20,000.00	\$ 224.00	\$ 22,400.00	\$ 224.00	\$ 22,400.00	\$ 165.00	\$ 16,500.00	\$ 165.00	\$ 16,500.00
233	HMA Driveway Approach, Low volume superpave	TON	15.0	\$ 180.00	\$ 2,700.00	\$ 495.00	\$ 7,425.00	\$ 450.00	\$ 6,750.00	\$ 224.00	\$ 3,360.00	\$ 224.00	\$ 3,360.00	\$ 225.00	\$ 3,375.00	\$ 225.00	\$ 3,375.00
242	4 -Inch Concrete Sidewalk	SF	153.0	\$ 3.25	\$ 497.25	\$ 6.75	\$ 1,032.75	\$ 30.00	\$ 4,590.00	\$ 25.00	\$ 3,825.00	\$ 15.00	\$ 2,250.00	\$ 12.00	\$ 1,836.00	\$ 12.00	\$ 1,836.00
243	6 -Inch Concrete Sidewalk, Ramp, or Drive	SF	91.0	\$ 6.00	\$ 546.00	\$ 13.50	\$ 1,228.50	\$ 30.00	\$ 2,730.00	\$ 25.00	\$ 2,275.00	\$ 15.00	\$ 1,365.00	\$ 15.00	\$ 1,365.00	\$ 15.00	\$ 1,365.00
245	Detectable Warning, Cast In Place	SF	10.0	\$ 15.50	\$ 155.00	\$ 70.00	\$ 700.00	\$ 105.00	\$ 1,050.00	\$ 100.00	\$ 1,000.00	\$ 40.00	\$ 400.00	\$ 100.00	\$ 1,000.00	\$ 100.00	\$ 1,000.00
250	Sand Subbase Course, Class II - C.I.P.	CY	730.0	\$ 24.00	\$ 17,520.00	\$ 22.00	\$ 16,060.00	\$ 30.00	\$ 21,900.00	\$ 43.00	\$ 31,390.00	\$ 40.00	\$ 29,200.00	\$ 45.00	\$ 32,850.00	\$ 45.00	\$ 32,850.00
252	Aggregate Base Course, 21AA - C.I.P.	CY	75.0	\$ 55.00	\$ 4,125.00	\$ 40.00	\$ 3,000.00	\$ 50.00	\$ 3,750.00	\$ 67.00	\$ 5,025.00	\$ 55.00	\$ 4,125.00	\$ 58.00	\$ 4,350.00	\$ 58.00	\$ 4,350.00
253	Aggregate Surface Course, 10 inch 22A	SY	300.0	\$ 50.00	\$ 15,000.00	\$ 14.00	\$ 4,200.00	\$ 14.00	\$ 4,200.00	\$ 20.00	\$ 6,000.00	\$ 40.00	\$ 12,000.00	\$ 19.85	\$ 5,955.00	\$ 19.85	\$ 5,955.00
254	Aggregate Surface Course, 10 inch 23A	SY	200.0	\$ 50.00	\$ 10,000.00	\$ 17.00	\$ 3,400.00	\$ 15.00	\$ 3,000.00	\$ 25.00	\$ 5,000.00	\$ 40.00	\$ 8,000.00	\$ 19.85	\$ 3,970.00	\$ 19.85	\$ 3,970.00
260	Remove HMA Pavement	SY	489.0	\$ 8.00	\$ 3,912.00	\$ 7.50	\$ 3,667.50	\$ 9.00	\$ 4,401.00	\$ 7.00	\$ 3,423.00	\$ 9.00	\$ 4,401.00	\$ 9.85	\$ 4,816.65	\$ 9.85	\$ 4,816.65
272	Plastic Drum - Lighted, Furnish and Operate	Each	55.0	\$ 66.00	\$ 3,630.00	\$ 33.00	\$ 1,815.00	\$ 30.00	\$ 1,650.00	\$ 17.95	\$ 987.25	\$ 30.00	\$ 1,650.00	\$ 29.95	\$ 1,647.25	\$ 29.95	\$ 1,647.25
273	Type III Lighted Barricade, Furnish & Operate	Each	12.0	\$ 153.00	\$ 1,836.00	\$ 140.00	\$ 1,680.00	\$ 115.00	\$ 1,380.00	\$ 69.95	\$ 839.40	\$ 120.00	\$ 1,440.00	\$ 124.95	\$ 1,499.40	\$ 124.95	\$ 1,499.40
274	Temporary Type B Signs, Furnish and Operate	SF	108.0	\$ 5.00	\$ 540.00	\$ 8.00	\$ 864.00	\$ 10.00	\$ 1,080.00	\$ 5.00	\$ 540.00	\$ 7.00	\$ 756.00	\$ 6.94	\$ 749.00	\$ 6.94	\$ 749.00
290	Landscape Maintenance and Warranty, 1st Year	LS	1.0	\$ 3,070.00	\$ 3,070.00	\$ 5,000.00	\$ 5,000.00	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00	\$ 2,500.00	\$ 2,500.00	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00
292	Topsoil Surface, 4 inch	SY	1,200.0	\$ 3.00	\$ 3,600.00	\$ 5.25	\$ 6,300.00	\$ 7.00	\$ 8,400.00	\$ 4.75	\$ 5,700.00	\$ 8.00	\$ 9,600.00	\$ 7.00	\$ 8,400.00	\$ 7.00	\$ 8,400.00
293	Hydroseeding	SY	1,200.0	\$ 1.50	\$ 1,800.00	\$ 3.30	\$ 3,960.00	\$ 2.15	\$ 2,580.00	\$ 3.00	\$ 3,600.00	\$ 2.00	\$ 2,400.00	\$ 2.50	\$ 3,000.00	\$ 2.50	\$ 3,000.00
320	12 inch Class IV RCP Trench Detail I	LF	140.0	\$ 143.00	\$ 6,020.00	\$ 75.00	\$ 10,500.00	\$ 125.00	\$ 17,500.00	\$ 76.01	\$ 10,641.40	\$ 100.00	\$ 14,000.00	\$ 90.00	\$ 12,600.00	\$ 90.00	\$ 12,600.00
321	12 inch Class IV RCP Trench Detail VI	LF	80.0	\$ 38.00	\$ 3,040.00	\$ 70.00	\$ 5,600.00	\$ 125.00	\$ 10,000.00	\$ 75.41	\$ 6,032.80	\$ 100.00	\$ 8,000.00	\$ 90.00	\$ 7,200.00	\$ 90.00	\$ 7,200.00
364	Type III Manhole, 24 dia (0-10' deep)	Each	1.0	\$ 1,000.00	\$ 1,000.00	\$ 1,250.00	\$ 1,250.00	\$ 2,500.00	\$ 2,500.00	\$ 2,225.00	\$ 2,225.00	\$ 2,500.00	\$ 2,500.00	\$ 2,000.00	\$ 2,000.00	\$ 2,000.00	\$ 2,000.00
364	Type III Manhole, 36 dia (0-10' deep)	Each	5.0	\$ 1,200.00	\$ 6,000.00	\$ 1,750.00	\$ 8,750.00	\$ 2,800.00	\$ 14,000.00	\$ 2,425.00	\$ 12,125.00	\$ 3,200.00	\$ 16,000.00	\$ 2,400.00	\$ 12,000.00	\$ 2,400.00	\$ 12,000.00
385	Sewer Pipe Abandonment	LF	26.0	\$ 700.00	\$ 18,200.00	\$ 25.00	\$ 650.00	\$ 30.00	\$ 780.00	\$ 27.00	\$ 702.00	\$ 40.00	\$ 1,040.00	\$ 25.00	\$ 650.00	\$ 25.00	\$ 650.00
386	Sewer Structure Abandonment	Each	1.0	\$ 800.00	\$ 800.00	\$ 500.00	\$ 500.00	\$ 500.00	\$ 500.00	\$ 475.00	\$ 475.00	\$ 700.00	\$ 700.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00
563	Structure Covers	LBS	1,800.0	\$ 1.55	\$ 2,790.00	\$ 4.00	\$ 7,200.00	\$ 2.50	\$ 4,500.00	\$ 1.35	\$ 2,394.00	\$ 2.00	\$ 3,600.00	\$ 2.00	\$ 3,600.00	\$ 2.00	\$ 3,600.00
566	Adjust Structure Cover	Each	4.0	\$ 475.00	\$ 1,900.00	\$ 450.00	\$ 1,800.00	\$ 500.00	\$ 2,000.00	\$ 950.00	\$ 3,800.00	\$ 750.00	\$ 3,000.00	\$ 750.00	\$ 3,000.00	\$ 750.00	\$ 3,000.00
567	Adjust Monument Box, Gate Valve Box or Gas Box	Each	2.0	\$ 440.00	\$ 880.00	\$ 250.00	\$ 500.00	\$ 250.00	\$ 500.00	\$ 660.00	\$ 1,320.00	\$ 500.00	\$ 1,000.00	\$ 250.00	\$ 500.00	\$ 250.00	\$ 500.00
703	Inlet Filter	Each	6.0	\$ 175.00	\$ 1,050.00	\$ 150.00	\$ 900.00	\$ 175.00	\$ 1,050.00	\$ 120.00	\$ 720.00	\$ 150.00	\$ 900.00	\$ 110.00	\$ 660.00	\$ 110.00	\$ 660.00
800	Silt Fence	Ft	400.0	\$ 2.00	\$ 800.00	\$ 2.50	\$ 1,000.00	\$ 2.00	\$ 800.00	\$ 5.50	\$ 2,200.00	\$ 3.50	\$ 1,400.00	\$ 2.00	\$ 800.00	\$ 2.00	\$ 800.00
815	Red Maple, (Acer rubrum), 4 inch caliper	Each	3.0	\$ 700.00	\$ 2,100.00	\$ 1,020.00	\$ 3,060.00	\$ 920.00	\$ 2,760.00	\$ 925.00	\$ 2,775.00	\$ 1,000.00	\$ 3,000.00	\$ 800.00	\$ 2,400.00	\$ 800.00	\$ 2,400.00
816	Honeylocust (Gleditsia Tracanthos Var Inermis																