Project: Devonshire, Belmont, Londonderry Water Main Replacement Project
File #: 2014-033 Bid #: 4373

				Engineer's Estimate		Bailey Excavating, Inc. 1073 Toro Drive Jackson, MI 49201		Verdeterre Contracting, Inc. 2618 Hannan Road Canton, MI 48188		Evergreen Civil, LLC 143 Cadycentre #303 Northville, MI 48167		Douglas N. Higgins, Inc. 3390 Travis Pointe, Suite A Ann Arbor, MI 48108		Fonson Company, Inc. 7644 Whitmore Lake Road Brighton, MI 48116		E.T. MacKenzie Company 6400 Jackson Road Ann Arbor, MI 48103	
Item	**Description**	**Unit**	**Est. Quant.**	**Estimated Unit Price**	**Total Cost**	Unit Price	Total Cost	Unit Price	Total Cost	Unit Price	Total Cost	Unit Price	Total Cost	Unit Price	Total Cost	Unit Price	Total Cost
130	Protective Fencing	LF	1200	$ 3.00	$ 3,600.00	$ 4.00	$ 4,800.00	$ 7.05	$ 8,460.00	$ 4.00	$ 4,800.00	$ 4.00	$ 4,800.00	$ 4.75	$ 5,700.00	$ 3.00	$ 3,600.00
135	Tree Removal, 8" and larger	Each	11	$ 400.00	$ 4,400.00	$ 850.00	$ 9,350.00	$ 845.00	$ 9,295.00	$ 750.00	$ 8,250.00	$ 750.00	$ 8,250.00	$ 590.00	$ 6,490.00	$ 785.00	$ 8,635.00
140	Exploratory Excavations (0-10deep)	Each	12	$ 1,000.00	$ 12,000.00	$ 500.00	$ 6,000.00	$ 525.00	$ 6,300.00	$ 1,200.00	$ 14,400.00	$ 300.00	$ 3,600.00	$ 1,700.00	$ 20,400.00	$ 2,900.00	$ 34,800.00
201	General Conditions, Max. $ 50,000	LS	1	$ 50,000.00	$ 50,000.00	$ 50,000.00	$ 50,000.00	$ 49,450.00	$ 49,450.00	$ 50,000.00	$ 50,000.00	$ 50,000.00	$ 50,000.00	$ 35,000.00	$ 35,000.00	$ 43,387.00	$ 43,387.00
202	Digital Audio Visual Coverage	LS	1	$ 2,500.00	$ 2,500.00	$ 1,500.00	$ 1,500.00	$ 15,000.00	$ 15,000.00	$ 3,500.00	$ 3,500.00	$ 3,000.00	$ 3,000.00	$ 1,175.00	$ 1,175.00	$ 1,250.00	$ 1,250.00
203	Minor Traffic Control, Modified, Max. $ 20,000	LS	1	$ 20,000.00	$ 20,000.00	$ 11,000.00	$ 11,000.00	$ 15,950.00	$ 15,950.00	$ 20,000.00	$ 20,000.00	$ 20,000.00	$ 20,000.00	$ 16,000.00	$ 16,000.00	$ 1.00	$ 1.00
204	Cleanup & Restoration. Special	LS	1	$ 8,000.00	$ 8,000.00	$ 7,500.00	$ 7,500.00	$ 21,500.00	$ 21,500.00	$ 7,900.00	$ 7,900.00	$ 15,000.00	$ 15,000.00	$ 3,500.00	$ 3,500.00	$ 1.00	$ 1.00
205	"No Parking" Signs	Each	62	$ 18.00	$ 1,116.00	$ 60.00	$ 3,720.00	$ 73.50	$ 4,557.00	$ 75.00	$ 4,650.00	$ 50.00	$ 3,100.00	$ 35.00	$ 2,170.00	$ 65.00	$ 4,030.00
211	Remove and Replace 4 inch or 6 inch Sanitary Sewer Lead	LF	100	$ 70.00	$ 7,000.00	$ 30.50	$ 3,050.00	$ 145.00	$ 14,500.00	$ 100.00	$ 10,000.00	$ 125.00	$ 12,500.00	$ 62.00	$ 6,200.00	$ 95.00	$ 9,500.00
220	Water Main Pipe Abandonment, Modified	LS	1	$ 3,500.00	$ 3,500.00	$ 2,500.00	$ 2,500.00	$ 12,650.00	$ 12,650.00	$ 19,500.00	$ 19,500.00	$ 15,000.00	$ 15,000.00	$ 3,400.00	$ 3,400.00	$ 31,500.00	$ 31,500.00
221	Fire Hydrant Assembly Abandonment	Each	4.00	$ 500.00	$ 2,000.00	$ 615.00	$ 2,460.00	$ 275.00	$ 1,100.00	$ 500.00	$ 2,000.00	$ 500.00	$ 2,000.00	$ 760.00	$ 3,040.00	$ 2,600.00	$ 10,400.00
222	Temporary 4 inch or 6 inch Water Main Line Stop	Each	6	$ 5,500.00	$ 33,000.00	$ 4,000.00	$ 24,000.00	$ 5,385.00	$ 32,310.00	$ 8,500.00	$ 51,000.00	$ 5,500.00	$ 33,000.00	$ 8,550.00	$ 51,300.00	$ 8,100.00	$ 48,600.00
223	Temporary 8 inch Water Main Line Stop	Each	2	$ 7,500.00	$ 15,000.00	$ 4,500.00	$ 9,000.00	$ 5,975.00	$ 11,950.00	$ 8,500.00	$ 17,000.00	$ 6,000.00	$ 12,000.00	$ 8,760.00	$ 17,520.00	$ 9,200.00	$ 18,400.00
225	6 inch Wrapped Underdrain	LF	3000	$ 9.00	$ 27,000.00	$ 11.90	$ 35,700.00	$ 19.00	$ 57,000.00	$ 10.00	$ 30,000.00	$ 10.00	$ 30,000.00	$ 21.60	$ 64,800.00	$ 10.00	$ 30,000.00
227	Subgrade Undercutting-Type II	CY	100.00	$ 20.00	$ 2,000.00	$ 32.70	$ 3,270.00	$ 53.50	$ 5,350.00	$ 25.00	$ 2,500.00	$ 35.00	$ 3,500.00	$ 10.00	$ 1,000.00	$ 1.00	$ 100.00
230	Sewer Bulkhead, 4-inch through 18-inch Diameter	Each	1	$ 45.00	$ 45.00	$ 500.00	$ 500.00	$ 1,445.00	$ 1,445.00	$ 500.00	$ 500.00	$ 450.00	$ 450.00	$ 485.00	$ 485.00	$ 250.00	$ 250.00
240	Temporary HMA Pavement	TON	25	$ 150.00	$ 3,750.00	$ 200.00	$ 5,000.00	$ 205.00	$ 5,125.00	$ 350.00	$ 8,750.00	$ 250.00	$ 6,250.00	$ 200.00	$ 5,000.00	$ 350.00	$ 8,750.00
252	Aggregate Base Course, 21AA - C.I.P.	CY	1300	$ 40.00	$ 52,000.00	$ 38.70	$ 50,310.00	$ 41.50	$ 53,950.00	$ 50.00	$ 65,000.00	$ 40.00	$ 52,000.00	$ 57.00	$ 74,100.00	$ 42.00	$ 54,600.00
260	Remove Bituminous Pavement	SY	28	$ 10.00	$ 280.00	$ 20.00	$ 560.00	$ 35.00	$ 980.00	$ 25.00	$ 700.00	$ 50.00	$ 1,400.00	$ 20.00	$ 560.00	$ 49.00	$ 1,372.00
261	Remove Concrete Curb or Curb & Gutter - Any Type	LF	3200	$ 6.00	$ 19,200.00	$ 6.00	$ 19,200.00	$ 8.95	$ 28,640.00	$ 6.00	$ 19,200.00	$ 8.00	$ 25,600.00	$ 6.61	$ 21,152.00	$ 5.00	$ 16,000.00
262	Remove Concrete Sidewalk & Driveways - Any Thickness	SF	1300	$ 6.00	$ 7,800.00	$ 1.00	$ 1,300.00	$ 1.65	$ 2,145.00	$ 5.00	$ 6,500.00	$ 2.00	$ 2,600.00	$ 2.40	$ 3,120.00	$ 2.00	$ 2,600.00
272	Plastic Drum - Lighted, Furnished and Operated	Each	185	$ 25.00	$ 4,625.00	$ 15.60	$ 2,886.00	$ 18.65	$ 3,450.25	$ 30.00	$ 5,550.00	$ 15.00	$ 2,775.00	$ 23.00	$ 4,255.00	$ 27.00	$ 4,995.00
273	Type III Lighted Barricade, Furnished & Operated	Each	6	$ 152.00	$ 912.00	$ 62.95	$ 377.70	$ 70.50	$ 423.00	$ 135.00	$ 810.00	$ 100.00	$ 600.00	$ 60.00	$ 360.00	$ 135.00	$ 810.00
274	Temporary Type B Signs	SF	169	$ 4.00	$ 676.00	$ 3.70	$ 625.30	$ 4.15	$ 701.35	$ 4.00	$ 676.00	$ 4.00	$ 676.00	$ 3.50	$ 591.50	$ 4.00	$ 676.00
305	8 inch SDR 35 PVC Trench Detail V	LF	198	$ 45.00	$ 8,910.00	$ 74.30	$ 14,711.40	$ 113.45	$ 22,463.10	$ 100.00	$ 19,800.00	$ 125.00	$ 24,750.00	$ 95.00	$ 18,810.00	$ 187.00	$ 37,026.00
306	8 inch SDR 35 PVC Trench Detail VI	LF	10	$ 50.00	$ 500.00	$ 126.65	$ 1,266.50	$ 114.35	$ 1,143.50	$ 190.00	$ 1,900.00	$ 150.00	$ 1,500.00	$ 175.00	$ 1,750.00	$ 176.00	$ 1,760.00
307	8 inch SDR 35 PVC Trench Detail IA	LF	14	$ 55.00	$ 770.00	$ 126.65	$ 1,773.10	$ 114.35	$ 1,600.90	$ 195.00	$ 2,730.00	$ 160.00	$ 2,240.00	$ 170.00	$ 2,380.00	$ 193.00	$ 2,702.00
320	12 inch Class IV RCP Trench Detail I	LF	120	$ 80.00	$ 9,600.00	$ 105.00	$ 12,600.00	$ 89.50	$ 10,740.00	$ 90.00	$ 10,800.00	$ 90.00	$ 10,800.00	$ 64.00	$ 7,680.00	$ 160.00	$ 19,200.00
335	8 inch x 6 inch SDR 35 PVC Wye	Each	3	$ 285.00	$ 855.00	$ 210.00	$ 630.00	$ 445.00	$ 1,335.00	$ 160.00	$ 480.00	$ 125.00	$ 375.00	$ 650.00	$ 1,950.00	$ 70.00	$ 210.00
353	6 inch SDR 35 PVC Service Lead	LF	30	$ 108.00	$ 3,240.00	$ 74.00	$ 2,220.00	$ 91.50	$ 2,745.00	$ 67.00	$ 2,010.00	$ 125.00	$ 3,750.00	$ 57.99	$ 1,739.70	$ 108.00	$ 3,240.00
360	Type I Manhole 0-10 feet Deep 4 foot dia	Each	2	$ 3,000.00	$ 6,000.00	$ 3,100.00	$ 6,200.00	$ 3,930.00	$ 7,860.00	$ 3,650.00	$ 7,300.00	$ 3,000.00	$ 6,000.00	$ 5,150.00	$ 10,300.00	$ 6,300.00	$ 12,600.00
361	Type I Manhole Additional Depth, 4 foot dia	VF	3	$ 165.00	$ 495.00	$ 250.00	$ 750.00	$ 750.00	$ 2,250.00	$ 240.00	$ 720.00	$ 300.00	$ 900.00	$ 1,170.00	$ 3,510.00	$ 65.00	$ 195.00
367	Single Inlet	Each	19	$ 2,000.00	$ 38,000.00	$ 1,585.00	$ 30,115.00	$ 2,395.00	$ 45,505.00	$ 2,000.00	$ 38,000.00	$ 1,500.00	$ 28,500.00	$ 1,820.00	$ 34,580.00	$ 2,800.00	$ 53,200.00
385	Sewer Pipe Abandonment	LF	222	$ 2.00	$ 444.00	$ 4.00	$ 888.00	$ 18.50	$ 4,107.00	$ 15.00	$ 3,330.00	$ 25.00	$ 5,550.00	$ 15.00	$ 3,330.00	$ 24.00	$ 5,328.00
386	Sewer Structure Abandonment	Each	1	$ 183.00	$ 183.00	$ 600.00	$ 600.00	$ 600.00	$ 600.00	$ 450.00	$ 450.00	$ 750.00	$ 750.00	$ 400.00	$ 400.00	$ 1,050.00	$ 1,050.00
391	Pipe Undercut & Refill (6AA)	CY	200	$ 40.00	$ 8,000.00	$ 46.90	$ 9,380.00	$ 55.40	$ 11,080.00	$ 50.00	$ 10,000.00	$ 30.00	$ 6,000.00	$ 75.00	$ 15,000.00	$ 26.00	$ 5,200.00
401	8 inch, Class 50 DIP w/polywrap, TD-IA	LF	116	$ 125.00	$ 14,500.00	$ 116.90	$ 13,560.40	$ 100.25	$ 11,629.00	$ 113.00	$ 13,108.00	$ 145.00	$ 16,820.00	$ 96.00	$ 11,136.00	$ 170.00	$ 19,720.00
402	8 inch, Class 50 DIP w/polywrap, TD-IB	LF	2725.00	$ 115.00	$ 313,375.00	$ 111.75	$ 304,518.75	$ 94.50	$ 257,512.50	$ 107.00	$ 291,575.00	$ 125.00	$ 340,625.00	$ 100.85	$ 274,816.25	$ 123.00	$ 335,175.00
403	8 inch, Class 50 DIP w/polywrap, TD-IC	LF	675.00	$ 105.00	$ 70,875.00	$ 111.75	$ 75,431.25	$ 98.20	$ 66,285.00	$ 105.00	$ 70,875.00	$ 125.00	$ 84,375.00	$ 112.00	$ 75,600.00	$ 118.00	$ 79,650.00
404	6 inch, Class 50 DIP w/polywrap, TD-IC	LF	91.00	$ 120.00	$ 10,920.00	$ 107.75	$ 9,805.25	$ 110.00	$ 10,010.00	$ 85.00	$ 7,735.00	$ 110.00	$ 10,010.00	$ 154.00	$ 14,014.00	$ 146.00	$ 13,286.00
415	8" 90° Bend	Each	2.00	$ 350.00	$ 700.00	$ 576.60	$ 1,153.20	$ 405.00	$ 810.00	$ 600.00	$ 1,200.00	$ 650.00	$ 1,300.00	$ 735.00	$ 1,470.00	$ 950.00	$ 1,900.00
416	8" 22-1/2° Bend	Each	2.00	$ 350.00	$ 700.00	$ 514.80	$ 1,029.60	$ 405.00	$ 810.00	$ 475.00	$ 950.00	$ 650.00	$ 1,300.00	$ 630.00	$ 1,260.00	$ 950.00	$ 1,900.00
417	8" 11-1/4° Bend	Each	3.00	$ 350.00	$ 1,050.00	$ 544.30	$ 1,632.90	$ 405.00	$ 1,215.00	$ 450.00	$ 1,350.00	$ 600.00	$ 1,800.00	$ 630.00	$ 1,890.00	$ 950.00	$ 2,850.00
419	8" 45° Bend	Each	17.00	$ 350.00	$ 5,950.00	$ 668.30	$ 11,361.10	$ 435.00	$ 7,395.00	$ 850.00	$ 14,450.00	$ 650.00	$ 11,050.00	$ 630.00	$ 10,710.00	$ 950.00	$ 16,150.00
420	8" x 6" Reducer	Each	9.00	$ 300.00	$ 2,700.00	$ 512.00	$ 4,608.00	$ 355.00	$ 3,195.00	$ 400.00	$ 3,600.00	$ 600.00	$ 5,400.00	$ 500.00	$ 4,500.00	$ 620.00	$ 5,580.00
432	8" x 8" x 6" Tee	Each	1.00	$ 800.00	$ 800.00	$ 749.40	$ 749.40	$ 645.00	$ 645.00	$ 730.00	$ 730.00	$ 1,000.00	$ 1,000.00	$ 815.00	$ 815.00	$ 1,050.00	$ 1,050.00
432	8" x 8" x 8" Tee	Each	10.00	$ 800.00	$ 8,000.00	$ 858.90	$ 8,589.00	$ 645.00	$ 6,450.00	$ 850.00	$ 8,500.00	$ 1,000.00	$ 10,000.00	$ 795.73	$ 7,957.30	$ 1,100.00	$ 11,000.00
440	Fire Hydrant Assembly	Each	5.00	$ 2,500.00	$ 12,500.00	$ 4,326.85	$ 21,634.25	$ 4,395.00	$ 21,975.00	$ 4,600.00	$ 23,000.00	$ 4,000.00	$ 20,000.00	$ 6,500.00	$ 32,500.00	$ 4,600.00	$ 23,000.00
443	8" Gate Valve-in Box	Each	8.00	$ 1,500.00	$ 12,000.00	$ 1,328.50	$ 10,628.00	$ 2,245.00	$ 17,960.00	$ 1,230.00	$ 9,840.00	$ 1,800.00	$ 14,400.00	$ 1,540.00	$ 12,320.00	$ 1,800.00	$ 14,400.00
448	6" Gate Valve-in Box	Each	1.00	$ 1,000.00	$ 1,000.00	$ 1,089.20	$ 1,089.20	$ 3,285.00	$ 3,285.00	$ 3,300.00	$ 3,300.00	$ 4,000.00	$ 4,000.00	$ 3,500.00	$ 3,500.00	$ 5,500.00	$ 5,500.00
449	8" Gate Valve-in Well	Each	1.00	$ 4,000.00	$ 4,000.00	$ 3,600.00	$ 3,600.00	$ 3,640.00	$ 3,640.00	$ 4,500.00	$ 4,500.00	$ 4,500.00	$ 4,500.00	$ 4,250.00	$ 4,250.00	$ 5,300.00	$ 5,300.00
460	Excavate and Backfill for Water Services and Leads	LF	803.00	$ 58.00	$ 46,574.00	$ 38.40	$ 30,835.20	$ 65.00	$ 52,195.00	$ 63.00	$ 50,589.00	$ 48.00	$ 38,544.00	$ 78.25	$ 62,834.75	$ 77.00	$ 61,831.00
481	Gate Valve-in-Box Abandonment	Each	3.00	$ 200.00	$ 600.00	$ 650.00	$ 1,950.00	$ 525.00	$ 1,575.00	$ 350.00	$ 1,050.00	$ 300.00	$ 900.00	$ 255.00	$ 765.00	$ 1,500.00	$ 4,500.00
482	Gate Valve-in-Well Abandonment	Each	5.00	$ 400.00	$ 2,000.00	$ 875.00	$ 4,375.00	$ 525.00	$ 2,625.00	$ 500.00	$ 2,500.00	$ 600.00	$ 3,000.00	$ 760.00	$ 3,800.00	$ 2,200.00	$ 11,000.00
560	Lowering Existing Structure (Trench Influence)	Each	8.00	$ 250.00	$ 2,000.00	$ 300.00	$ 2,400.00	$ 450.00	$ 3,600.00	$ 350.00	$ 2,800.00	$ 400.00	$ 3,200.00	$ 350.00	$ 2,800.00	$ 260.00	$ 2,080.00
563	Structure Covers	LBS	3200.00	$ 1.00	$ 3,200.00	$ 1.50	$ 4,800.00	$ 2.65	$ 8,480.00	$ 1.50	$ 4,800.00	$ 1.50	$ 4,800.00	$ 1.28	$ 4,096.00	$ 1.50	$ 4,800.00
703	Inlet Filter	Each	36	$ 100.00	$ 3,600.00	$ 150.00	$ 5,400.00	$ 135.00	$ 4,860.00	$ 125.00	$ 4,500.00	$ 125.00	**$ 4,500.00**	$ 165.00	$ 5,940.00	$ 160.00	$ 5,760.00
	TOTAL				**$ 870,845.00**		**$ 854,893.50**		**$ 959,812.60**		**$ 971,658.00**		**$ 980,740.00**		**$ 985,722.50**		**$ 1,102,400.00**