

**2017 Street Improvements
Preliminary Quantities & Cost Opinion
Windom, Minnesota**

October 13, 2016

Project Summary- Total Costs

Segment #1- Brian Avenue	\$289,000.00
Segment #2- Removed	
Segment #3- 15th Avenue	\$314,000.00
Segment #4- Removed	
Segment #5- 7th Avenue	\$109,000.00
Segment #6- 5th Avenue	\$471,000.00
Segment #7- 7th Street	\$413,000.00
Segment #8- Plum Avenue	\$300,000.00
Segment #9- 5th Street	\$106,000.00
Segment #10- 6th Avenue (Hwy 62/6th to City Limits only)	\$438,000.00
Segment #11- 16th Street	\$355,000.00
Segment #12- City Hall Parking	\$212,000.00
Segment #13- 3rd Ave. Alley to Hwy	\$82,000.00
Segment #14- Removed	
Segment #15- Removed	

Total Estimated Costs **\$3,089,000.00**

Project Summary- Total Paving Costs

Segments #1-13- Paving costs **\$2,142,000.00**

Project Summary- Total Utility Costs (excluding alternates)

Segments #1-13- Water Utility costs	\$364,000.00
Segments #1-13- Sanitary Sewer Utility costs	\$171,000.00
Segments #1-13- Storm Sewer Utility costs	\$412,000.00

Project Summary- Total Utility Dept. Costs (excluding alternates)

Water	+	Sewer		+0.35 X Total Paving Costs	
\$364,000.00		\$171,000.00		\$749,700.00	\$1,290,000.00

Optional 6th Ave. Alternates (Hwy 60 to City Limits)

Segment #10- 6th Avenue- Overlay existing	\$374,000.00
Segment #10- 6th Avenue- 36' wide reconstruction	\$2,562,000.00

Segments considered but removed from work (2017)

Segment #2- 17th Avenue	\$356,000.00
Segment #4- 17th Street	\$540,000.00
Segment #14- 17th St/17th Ave Intersection	\$23,000.00
Segment #15- 16th St Railroad Crossing	\$18,000.00

Optional Water Main Segments

Segment #2- 17th Avenue	\$80,000.00
Segment #4- 17th Street	\$146,000.00

Total Estimated Costs- Optional Water Main Replacements **\$226,000.00**

All estimated costs based on scope prepared for Street and Utility committee approval, to be adjusted based on requested changes and soils report

**2017 Street Improvements
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Windom, Minnesota**

September 13, 2016

Segment #1, Brian Avenue (River Road to Douglas St.)

ITEM NO.	NO. OF UNITS	ITEM DESCRIPTION	UNIT COST	TOTAL ITEM COST
<u>Paving</u>				
1.	1,400 cu. yd.	Street excavation and embankment	\$8.00 /cu. yd. =	\$11,200.00
2.	2,500 sq. yd.	12" Subgrade preparation	\$3.00 /sq. yd. =	\$7,500.00
3.	2,500 sq. yds	12" Granular Base	\$12.00 /sq. yd. =	\$30,000.00
4.	275 ln. ft.	Curb and Gutter (Match Existing)	\$16.00 /ln. ft. =	\$4,400.00
5.	550 ton	4" Hot Mix Asphalt	\$85.00 /ton =	\$46,750.00
6.	2,500 sq. yds	Pavement Removal	\$8.00 /sq. yd. =	\$20,000.00
7.	2 each	Adjust Manhole Frame & Ring Casting	\$750.00 /each =	\$1,500.00
8.	0 each	Adjust Water Valve	\$400.00 /each =	\$0.00
9.	1 L.S.	Mobilization and Traffic Control	\$4,000.00 /L.S. =	\$4,000.00
Construction Subtotal				\$125,350.00
Contingencies (10%)				\$12,650.00
Engineering and Testing				\$17,000.00
Estimated Subtotal				\$155,000.00
<u>Water Main</u>				
10.	700 ln. ft.	6" C900 Water Main	\$26.00 /ln. ft. =	\$18,200.00
11.	4 ea.	Tee	\$800.00 /ea. =	\$3,200.00
12.	1 ea.	45d Bends	\$350.00 /ea. =	\$350.00
13.	6 ea.	6" Gate Valve	\$1,200.00 /ea. =	\$7,200.00
14.	2 ea.	Connect to Existing Water	\$1,000.00 /ea. =	\$2,000.00
15.	280 ln. ft.	Cl. 200 Water Service	\$22.00 /ln. ft. =	\$6,160.00
16.	8 ea.	Curb Stop w/box	\$200.00 /ea. =	\$1,600.00
17.	8 ea.	Corp Stop	\$200.00 /ea. =	\$1,600.00
18.	2 ea.	Fire Hydrant	\$4,000.00 /ea. =	\$8,000.00
Construction Subtotal				\$48,310.00
Contingencies (10%)				\$4,690.00
Engineering and Testing				\$7,000.00
Estimated Subtotal				\$60,000.00
<u>Storm Sewer</u>				
19.	700 ln. ft.	15" RCP Storm Sewer	\$35.00 /ln. ft. =	\$24,500.00
20.	5 ea.	Type A Intake	\$2,750.00 /ea. =	\$13,750.00
21.	3 ea.	5'x5' Storm Manhole	\$3,200.00 /ea. =	\$9,600.00
22.	2 ea.	Connect to Existing Storm Sewer	\$750.00 /ln. ft. =	\$1,500.00
23.	1250 ln. ft.	4" Perforated subdrain	\$7.00 /ln. ft. =	\$8,750.00
24.	6 ea.	Subdrain Intake Outlet	\$250.00 /ea. =	\$1,500.00
Construction Subtotal				\$59,600.00
Contingencies (10%)				\$6,400.00
Engineering and Testing				\$8,000.00
Estimated Subtotal				\$74,000.00
Estimated Total Construction Cost				\$289,000.00

**2017 Street Improvements
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October 16, 2016

Segment #3, 15th Avenue (River Road to 17th Street)

ITEM NO.	NO. OF UNITS	ITEM DESCRIPTION	UNIT COST	TOTAL ITEM COST
<u>Paving</u>				
1.	1,200 cu. yd.	Street excavation and embankment	\$8.00 /cu. yd. =	\$9,600.00
2.	2,650 sq. yd.	12" Subgrade preparation	\$3.00 /sq. yd. =	\$7,950.00
3.	2,650 sq. yds	12" Granular Base	\$12.00 /sq. yd. =	\$31,800.00
4.	1,000 ln. ft.	B624 Curb and Gutter	\$16.00 /ln. ft. =	\$16,000.00
5.	500 ton	4" Hot Mix Asphalt	\$85.00 /ton =	\$42,500.00
6.	2,550 sq. yds	Pavement Removal	\$8.00 /sq. yd. =	\$20,400.00
7.	35 sq. yds	6" PCC Driveway	\$45.00 /sq. yd. =	\$1,575.00
8.	240 sq. yds	4" PCC Sidewalk	\$45.00 /sq. yd. =	\$10,800.00
9.	3 ea.	ADA Pedestrian Curb Ramps	\$750.00 /sq. yd. =	\$2,250.00
10.	160 sq. yds	8" PCC Valley Gutter	\$70.00 /sq. yd. =	\$11,200.00
11.	2 each	Adjust Manhole Frame & Ring Casting	\$750.00 /ea. =	\$1,500.00
12.	0 each	Adjust Water Valve	\$400.00 /ea. =	\$0.00
13.	1,500 sq. yd.	Terrace grading	\$2.00 /sq. yd. =	\$3,000.00
14.	0.5 ac.	Seeding, fertilizing & mulching	\$4,000.00 /ac. =	\$2,000.00
15.	100 ln. ft.	Bio-wattles	\$5.00 /ln. ft. =	\$500.00
16.	3 ea.	Intake Protection	\$350.00 /ea. =	\$1,050.00
17.	1 L.S.	Mobilization and Traffic Control	\$4,000.00 /L.S. =	\$4,000.00
Construction Subtotal				\$166,125.00
Contingencies (10%)				\$16,875.00
Engineering and Testing				\$22,000.00
Estimated Subtotal				\$205,000.00
<u>Water</u>				
18.	500 ln. ft.	10" C900 Water Main	\$36.00 /ln. ft. =	\$18,000.00
19.	20 ln. ft.	6" C900 Water Main	\$26.00 /ln. ft. =	\$520.00
20.	3 ea.	Tee	\$800.00 /ln. ft. =	\$2,400.00
21.	4 ea.	8" Gate Valve	\$1,800.00 /ln. ft. =	\$7,200.00
22.	1 ea.	6" Gate Valve	\$1,200.00 /ln. ft. =	\$1,200.00
23.	3 ea.	Connect to Existing Water	\$1,000.00 /ea. =	\$3,000.00
24.	50 ln. ft.	Cl. 200 Water Service	\$22.00 /ln. ft. =	\$1,100.00
25.	1 ea.	Curb Stop w/box	\$200.00 /ea. =	\$200.00
26.	1 ea.	Corp Stop	\$200.00 /ea. =	\$200.00
27.	1 ea.	Hydrant	\$4,000.00 /ea. =	\$4,000.00
Construction Subtotal				\$37,820.00
Contingencies (10%)				\$4,180.00
Engineering and Testing				\$5,000.00
Estimated Subtotal				\$47,000.00
<u>Storm Sewer</u>				
28.	70 ln. ft.	15" RCP Storm Sewer	\$35.00 /ln.ft. =	\$2,450.00
29.	425 ln. ft.	24" RCP Storm Sewer	\$60.00 /ln.ft. =	\$25,500.00
30.	3 ea.	Type A Intake	\$2,750.00 /ea. =	\$8,250.00
31.	2 ea.	5'x5' Storm Manhole	\$3,200.00 /ea. =	\$6,400.00
32.	1 ea.	Connect to Existing Storm Sewer	\$750.00 /ea. =	\$750.00
33.	900 ln. ft.	4" Perforated subdrain	\$7.00 /ln. ft. =	\$6,300.00
34.	2 ea.	Subdrain Intake Outlet	\$250.00 /ea. =	\$500.00
Construction Subtotal				\$50,150.00
Contingencies (10%)				\$4,850.00
Engineering and Testing				\$7,000.00
Estimated Subtotal				\$62,000.00
Estimated Construction Cost				\$314,000.00

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Segment #5 - 7th Avenue (22nd Street north 1 block, new housing)

ITEM NO.	NO. OF UNITS	ITEM DESCRIPTION	UNIT COST	TOTAL ITEM COST
1.	2,000 cu. yd.	Street excavation and embankment	\$8.00 /cu. yd. =	\$16,000.00
2.	1,500 sq. yd.	12" Subgrade preparation	\$3.00 /sq. yd. =	\$4,500.00
3.	1,500 sq. yds	12" Granular Base	\$12.00 /sq. yd. =	\$18,000.00
4.	640 ln. ft.	B624 Curb and Gutter	\$16.00 /ln. ft. =	\$10,240.00
5.	280 ton	4" Hot Mix Asphalt	\$85.00 /ton =	\$23,800.00
6.	670 ln. ft.	4" Perforated subdrain	\$7.00 /ln. ft. =	\$4,690.00
7.	2 ea.	Subdrain Intake Outlet	\$250.00 /ea. =	\$500.00
8.	1,500 sq. yd.	Terrace grading	\$2.00 /sq. yd. =	\$3,000.00
9.	0.35 ac.	Seeding, fertilizing & mulching	\$4,000.00 /ac. =	\$1,400.00
10.	75 ln. ft.	Bio-wattles	\$5.00 /ln. ft. =	\$375.00
11.	1 L.S.	Mobilization and Traffic Control	\$6,000.00 /L.S. =	\$6,000.00
Construction Subtotal				\$88,505.00
Contingencies (10%)				\$8,495.00
Engineering and Testing				\$12,000.00
Estimated Construction Cost				\$109,000.00

Utilities previously installed

**2017 Street Improvements
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Segment #6 - 5th Avenue (11th Street to 12th Street)

ITEM NO.	NO. OF UNITS	ITEM DESCRIPTION	UNIT COST	TOTAL ITEM COST
<u>Paving</u>				
1.	1,300 cu. yd.	Street excavation and embankment	\$8.00 /cu. yd. =	\$10,400.00
2.	2,650 sq. yd.	12" Subgrade preparation	\$3.00 /sq. yd. =	\$7,950.00
3.	2,650 sq. yd.	12" Granular Base	\$12.00 /sq. yd. =	\$31,800.00
4.	1,000 ln. ft.	B624 Curb and Gutter	\$16.00 /ln. ft. =	\$16,000.00
5.	450 ton	4" Hot Mix Asphalt	\$85.00 /ton =	\$38,250.00
6.	2,400 sq. yd.	Pavement Removal	\$8.00 /sq. yd. =	\$19,200.00
7.	300 sq. yds	8" PCC Valley Gutter	\$70.00 /sq. yd. =	\$21,000.00
8.	180 sq. yds	6" PCC Driveway	\$45.00 /sq. yd. =	\$8,100.00
9.	160 sq. yds	4" PCC Sidewalk	\$45.00 /sq. yd. =	\$7,200.00
10.	14 ea.	ADA Pedestrian Curb Ramps	\$750.00 /sq. yd. =	\$10,500.00
11.	25 ton	Granular Stabilization	\$25.00 /ton =	\$625.00
12.	1,300 sq. yd.	Terrace grading	\$2.00 /sq. yd. =	\$2,600.00
13.	0.5 ac.	Seeding, fertilizing & mulching	\$4,000.00 /ac. =	\$2,000.00
14.	100 ln. ft.	Bio-wattles	\$5.00 /ln. ft. =	\$500.00
15.	7 ea.	Intake Protection	\$350.00 /ea. =	\$2,450.00
16.	1 L.S.	Mobilization and Traffic Control	\$12,000.00 /L.S. =	\$12,000.00
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Construction Subtotal				\$190,575.00
Contingencies (10%)				\$19,425.00
Engineering and Testing				\$26,000.00
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Estimated Subtotal				\$236,000.00
<u>Water</u>				
17.	700 ln. ft.	8" C900 Water Main	\$32.00 /ln. ft. =	\$22,400.00
18.	20 ln. ft.	6" C900 Water Main	\$26.00 /ln. ft. =	\$520.00
19.	1 ea.	Tee	\$800.00 /ea. =	\$800.00
20.	2 ea.	Cross	\$1,200.00 /ea. =	\$2,400.00
21.	6 ea.	8" Gate Valve	\$1,800.00 /ea. =	\$10,800.00
22.	1 ea.	6" Gate Valve	\$1,200.00 /ea. =	\$1,200.00
23.	6 ea.	Connect to Existing Water	\$1,000.00 /ea. =	\$6,000.00
24.	300 ln. ft.	Cl. 200 Water Service	\$22.00 /ln. ft. =	\$6,600.00
25.	10 ea.	Curb Stop w/box	\$200.00 /ea. =	\$2,000.00
26.	10 ea.	Corp Stop	\$200.00 /ea. =	\$2,000.00
27.	1 ea.	Fire Hydrant	\$4,000.00 /ea. =	\$4,000.00
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Construction Subtotal				\$58,720.00
Contingencies (10%)				\$6,280.00
Engineering and Testing				\$8,000.00
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Estimated Subtotal				\$73,000.00
<u>Storm Sewer</u>				
28.	460 ln. ft.	18" RCP Storm Sewer	\$40.00 /ln. ft. =	\$18,400.00
29.	300 ln. ft.	15" RCP Storm Sewer	\$35.00 /ln. ft. =	\$10,500.00
30.	7 ea.	Type A Intake	\$2,750.00 /ea. =	\$19,250.00
31.	2 ea.	5'x5' Storm Manhole	\$3,200.00 /ea. =	\$6,400.00
32.	2 ea.	Connect to Existing Storm Sewer	\$750.00 /ea. =	\$1,500.00
33.	1050 ln. ft.	4" Perforated subdrain	\$7.00 /ln. ft. =	\$7,350.00
34.	4 ea.	Subdrain Intake Outlet	\$250.00 /ea. =	\$1,000.00
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Construction Subtotal				\$64,400.00
Contingencies (10%)				\$6,600.00
Engineering and Testing				\$10,000.00
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Estimated Subtotal				\$81,000.00

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September 13, 2016

Segment #6 - 5th Avenue (11th Street to 12th Street)

Sanitary Sewer

35.	700 In. ft.	12" SDR-26 Sanitary Sewer	\$65.00 /In. ft.	=	\$45,500.00
36.	300 In. ft.	4" SDR-26 Sanitary Sewer Service	\$25.00 /In. ft.	=	\$7,500.00
37.	8 ea.	Wye	\$200.00 /ea.	=	\$1,600.00
38.	2 ea.	Sanitary Manhole	\$3,750.00 /ea.	=	\$7,500.00
39.	6 ea.	Connect to Existing Sanitary	\$500.00 /ea.	=	\$3,000.00
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Construction Subtotal					\$65,100.00
Contingencies (10%)					\$6,900.00
Engineering and Testing					\$9,000.00
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Estimated Subtotal					\$81,000.00
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Estimated Total Construction Cost					\$471,000.00
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**2017 Street Improvements
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Segment #7 - 7th Street (West dead end to 3rd Avenue and Hwy 60 to 1st Ave)

ITEM NO.	NO. OF UNITS	ITEM DESCRIPTION	UNIT COST	TOTAL ITEM COST
<u>Paving</u>				
1.	1,300 cu. yd.	Street excavation and embankment	\$8.00 /cu. yd. =	\$10,400.00
2.	3,350 sq. yd.	12" Subgrade Prep	\$3.00 /sq. yd. =	\$10,050.00
3.	1 ea.	Adjust Manhole Frame & Ring Casting	\$750.00 /ea. =	\$750.00
4.	0 ea.	Adjust Water Valve	\$400.00 /ea. =	\$0.00
5.	3,350 sq. yd.	12" Granular Base	\$12.00 /sq. yd. =	\$40,200.00
6.	1,400 ln. ft.	B624 Curb and Gutter	\$16.00 /ln. ft. =	\$22,400.00
7.	140 sq. yds	8" PCC Valley Gutter	\$70.00 /sq. yd. =	\$9,800.00
8.	400 ton	4" Hot Mix Asphalt	\$85.00 /ton =	\$34,000.00
9.	175 ton	5" Hot Mix Asphalt	\$85.00 /ton =	\$14,875.00
10.	3,000 sq. yds	Pavement Removal	\$8.00 /sq. yd. =	\$24,000.00
11.	400 sq. yds	6" PCC Driveway	\$45.00 /sq. yd. =	\$18,000.00
12.	60 sq. yds	4" PCC Sidewalk	\$45.00 /sq. yd. =	\$2,700.00
13.	4 ea.	ADA Pedestrian Curb Ramps	\$750.00 /ea. =	\$3,000.00
14.	25 ton	Granular Stabilization	\$25.00 /ton =	\$625.00
15.	2,500 sq. yd.	Terrace grading	\$2.00 /sq. yd. =	\$5,000.00
16.	0.5 ac.	Seeding, fertilizing & mulching	\$4,000.00 /ac. =	\$2,000.00
17.	100 ln. ft.	Bio-wattles	\$5.00 /ln. ft. =	\$500.00
18.	8 ea.	Intake Protection	\$350.00 /ea. =	\$2,800.00
19.	1 L.S.	Mobilization and Traffic Control	\$12,000.00 /L.S. =	\$12,000.00
Construction Subtotal				\$213,100.00
Contingencies (10%)				\$21,900.00
Engineering and Testing				\$26,000.00
Estimated Subtotal				\$261,000.00
<u>Storm Sewer</u>				
20.	2 ea.	Intake	\$3,500.00 /ea. =	\$7,000.00
21.	300 ln. ft.	15" RCP Storm Sewer	\$35.00 /ln.ft. =	\$10,500.00
22.	5 ea.	Type A Intake	\$3,200.00 /ea. =	\$16,000.00
23.	2 ea.	5'x5' Storm Manhole	\$3,200.00 /ea. =	\$6,400.00
24.	5 ea.	Connect to Existing Storm Sewer	\$750.00 /ea. =	\$3,750.00
25.	1,400 ln. ft.	4" Perforated subdrain	\$7.00 /ln. ft. =	\$9,800.00
26.	6 ea.	Subdrain Intake Outlet	\$250.00 /ea. =	\$1,500.00
Construction Subtotal				\$54,950.00
Contingencies (10%)				\$6,050.00
Engineering and Testing				\$7,000.00
Estimated Subtotal				\$68,000.00
<u>Sanitary Sewer</u>				
27.	320 ln. ft.	8" SDR-26 Sanitary Sewer	\$45.00 /ln. ft. =	\$14,400.00
28.	200 ln. ft.	4" SDR-26 Sanitary Sewer Service	\$25.00 /ln. ft. =	\$5,000.00
29.	7 ea.	Wye	\$200.00 /ea. =	\$1,400.00
30.	2 ea.	Sanitary Manhole	\$3,750.00 /ea. =	\$7,500.00
31.	2 ea.	Connect to Existing Sanitary	\$500.00 /ea. =	\$1,000.00
Construction Subtotal				\$29,300.00
Contingencies (10%)				\$3,700.00
Engineering and Testing				\$4,000.00
Estimated Subtotal				\$37,000.00

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Segment #7 - 7th Street (West dead end to 3rd Avenue and Hwy 60 to 1st Ave)

		<u>Water</u>				
32.	400 In. ft.	8" C900 Water Main	\$32.00 /ln. ft.	=		\$12,800.00
33.	2 ea.	Tee	\$800.00 /ln. ft.	=		\$1,600.00
34.	3 ea.	8" Gate Valve	\$1,800.00 /ln. ft.	=		\$5,400.00
35.	1 ea.	6" Gate Valve	\$1,200.00 /ln. ft.	=		\$1,200.00
36.	2 ea.	Connect to Existing Water	\$1,000.00 /ea.	=		\$2,000.00
37.	400 In. ft.	Cl. 200 Water Service	\$22.00 /ln. ft.	=		\$8,800.00
38.	6 ea.	Curb Stop w/box	\$200.00 /ea.	=		\$1,200.00
39.	6 ea.	Corp Stop	\$200.00 /ea.	=		\$1,200.00
40.	1 ea.	Hydrant	\$4,000.00 /ea.	=		\$4,000.00
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Construction Subtotal						\$38,200.00
Contingencies (10%)						\$3,800.00
Engineering and Testing						\$5,000.00
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Estimated Subtotal						\$47,000.00
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Estimated Total Construction Cost						\$413,000.00
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**2017 Street Improvements
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Segment #8 - Plum Avenue (6th Street 450' north)

ITEM NO.	NO. OF UNITS	ITEM DESCRIPTION	UNIT COST	TOTAL ITEM COST
<u>Paving</u>				
1.	1,200 cu. yd.	Street excavation and embankment	\$8.00 /cu. yd. =	\$9,600.00
2.	2,350 sq. yd.	12" Subgrade preparaiaon	\$3.00 /sq. yd. =	\$7,050.00
3.	2,350 sq. yd.	12" Granular Base	\$12.00 /sq. yd. =	\$28,200.00
4.	1,050 ln. ft.	B624 Curb and Gutter	\$16.00 /ln. ft. =	\$16,800.00
5.	440 ton	4" Hot Mix Asphalt	\$85.00 /ton =	\$37,400.00
6.	2,100 sq. yd.	Pavement Removal	\$8.00 /sq. yd. =	\$16,800.00
7.	150 sq. yds	6" PCC Driveway	\$45.00 /sq. yd. =	\$6,750.00
8.	10 sq. yds	4" PCC Sidewalk	\$45.00 /sq. yd. =	\$450.00
9.	1 ea.	ADA Pedestiran Curb Ramps	\$750.00 /ea. =	\$750.00
10.	50 ton	Granular Stabilization	\$25.00 /ton =	\$1,250.00
11.	3,000 sq. yd.	Terrace grading	\$2.00 /sq. yd. =	\$6,000.00
12.	0.6 ac.	Seeding, fertilizing & mulching	\$4,000.00 /ac. =	\$2,400.00
13.	100 ln. ft.	Bio-wattles	\$5.00 /ln. ft. =	\$500.00
14.	2 ea.	Intake Protection	\$350.00 /ea. =	\$700.00
15.	1 L.S.	Mobilization and Traffic Control	\$12,000.00 /L.S. =	\$12,000.00
16.	1 ea.	Adjust Intake	\$750.00 /ea. =	\$750.00
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Construction Subtotal				\$147,400.00
Contingencies (10%)				\$14,600.00
Engineering and Testing				\$20,000.00
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Estimated Subtotal				\$182,000.00
<u>Water</u>				
17.	0 ln. ft.	8" C900 Water Main	\$32.00 /ln. ft. =	\$0.00
18.	580 ln. ft.	6" C900 Water Main	\$26.00 /ln. ft. =	\$15,080.00
19.	2 ea.	Tee	\$800.00 /ea. =	\$1,600.00
20.	0 ea.	8" Gate Valve	\$1,800.00 /ea. =	\$0.00
21.	4 ea.	6" Gate Valve	\$1,200.00 /ea. =	\$4,800.00
22.	3 ea.	Connect to Existing Water	\$1,000.00 /ea. =	\$3,000.00
23.	250 ln. ft.	Cl. 200 Water Service	\$22.00 /ln. ft. =	\$5,500.00
24.	7 ea.	Curb Stop w/box	\$200.00 /ea. =	\$1,400.00
25.	7 ea.	Corp Stop	\$200.00 /ea. =	\$1,400.00
26.	1 ea.	Fire Hydrant	\$4,000.00 /ea. =	\$4,000.00
27.	2 ea.	45D Bends	\$350.00 /ea. =	\$700.00
<hr/>				
Construction Subtotal				\$37,480.00
Contingencies (10%)				\$4,520.00
Engineering and Testing				\$5,000.00
<hr/>				
Estimated Subtotal				\$47,000.00
<u>Storm Sewer</u>				
28.	90 ln. ft.	15" RCP Storm Sewer	\$35.00 /ln. ft. =	\$3,150.00
29.	4 ea.	Type A Intake	\$2,750.00 /ea. =	\$11,000.00
30.	1 ea.	5'x5' Storm Manhole	\$3,200.00 /ea. =	\$3,200.00
31.	1 ea.	Connect to Existing Storm Sewer	\$750.00 /ea. =	\$750.00
32.	1150 ln. ft.	4" Perforated subdrain	\$7.00 /ln. ft. =	\$8,050.00
33.	4 ea.	Subdrain Intake Outlet	\$250.00 /ea. =	\$1,000.00
<hr/>				
Construction Subtotal				\$27,150.00
Contingencies (10%)				\$2,850.00
Engineering and Testing				\$4,000.00
<hr/>				
Estimated Subtotal				\$34,000.00

**2017 Street Improvements
Preliminary Quantities & Cost Opinion
Windom, Minnesota**

September 13, 2016

Segment #8 - Plum Avenue (6th Street 450' north)

Sanitary Sewer

34.	250 In. ft.	8" SDR-26 Sanitary Sewer	\$45.00 /In. ft.	=	\$11,250.00
35.	200 In. ft.	4" SDR-26 Sanitary Sewer Service	\$25.00 /In. ft.	=	\$5,000.00
36.	6 ea.	Wye	\$200.00 /ea.	=	\$1,200.00
37.	3 ea.	Sanitary Manhole	\$3,750.00 /ea.	=	\$11,250.00
38.	2 ea.	Connect to Existing Sanitary	\$500.00 /ea.	=	\$1,000.00

Construction Subtotal	\$29,700.00
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Contingencies (10%)	\$3,300.00
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Engineering and Testing	\$4,000.00
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Estimated Subtotal	\$37,000.00
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Estimated Total Construction Cost	\$300,000.00
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**2017 Street Improvements
Preliminary Quantities & Cost Opinion
Windom, Minnesota**

September 13, 2016

Segment #9, 5th Street (5th Avenue to 6th Avenue)

ITEM NO.	NO. OF UNITS	ITEM DESCRIPTION	UNIT COST	TOTAL ITEM COST
<u>Paving</u>				
1.	550 cu. yd.	Street excavation and embankment	\$8.00 /cu. yd. =	\$4,400.00
2.	1,150 sq. yds	Subgrade Preparation	\$3.00 /sq. yd. =	\$3,450.00
3.	1,150 sq. yds	12" Granular Base	\$12.00 /sq. yd. =	\$13,800.00
4.	520 ln. ft.	Curb and Gutter	\$16.00 /ln. ft. =	\$8,320.00
5.	210 ton	4" Hot Mix Asphalt	\$85.00 /ton =	\$17,850.00
6.	1,000 sq. yds	Pavement Removal	\$8.00 /sq. yd. =	\$8,000.00
7.	2 each	Adjust Manhole Frame & Ring Casting	\$750.00 /each =	\$1,500.00
8.	0 each	Adjust Water Valve	\$400.00 /each =	\$0.00
9.	20 sq. yds	4" PCC Sidewalk	\$45.00 /sq. yd. =	\$900.00
10.	40 sq. yds	6" PCC Driveway	\$50.00 /sq. yd. =	\$2,000.00
11.	1 L.S.	Mobilization and Traffic Control	\$3,000.00 /L.S. =	\$3,000.00
Construction Subtotal				\$63,220.00
Contingencies (10%)				\$6,780.00
Engineering and Testing				\$8,000.00
Estimated Subtotal				\$78,000.00
<u>Water</u>				
12.	280 ln. ft.	6" C900 Water Main	\$26.00 /ln. ft. =	\$7,280.00
13.	1 ea.	Tee	\$800.00 /ea. =	\$800.00
14.	1 ea.	90d Bend	\$600.00 /ea. =	\$600.00
15.	2 ea.	6" Gate Valve	\$1,200.00 /ln. ft. =	\$2,400.00
16.	2 ea.	Connect to Existing Water	\$1,000.00 /ea. =	\$2,000.00
17.	175 ln. ft.	Cl. 200 Water Service	\$22.00 /ln. ft. =	\$3,850.00
18.	5 ea.	Curb Stop w/box	\$200.00 /ea. =	\$1,000.00
19.	5 ea.	Corp Stop	\$200.00 /ea. =	\$1,000.00
20.	1 ea.	Fire Hydrant	\$4,000.00 /ea. =	\$4,000.00
Construction Subtotal				\$22,930.00
Contingencies (10%)				\$2,270.00
Engineering and Testing				\$2,800.00
Estimated Subtotal				\$28,000.00
Estimated Total Construction Cost				\$106,000.00

**2017 Street Improvements
Preliminary Quantities & Cost Opinion
Windom, Minnesota**

September 13, 2016

Segment #10, 6th Avenue (6th Street/Hwy 62 to City Limits)

ITEM NO.	NO. OF UNITS	ITEM DESCRIPTION	UNIT COST	TOTAL ITEM COST
<u>Paving</u>				
1.	2,000 cu. yd.	Street excavation and embankment	\$8.00 /cu. yd. =	\$16,000.00
2.	4,450 sq. yds	12" Subgrade preparation	\$3.00 /ln. ft. =	\$13,350.00
3.	4,450 sq. yds	12" Granular Base	\$12.00 /sq. yd. =	\$53,400.00
4.	3,600 sq. yds	Pavement Removal	\$8.00 /sq. yd. =	\$28,800.00
5.	670 sq. yds	4" PCC Sidewalk	\$45.00 /sq. yd. =	\$30,150.00
6.	2,050 ln. ft.	B624 Curb and Gutter	\$16.00 /ln. ft. =	\$32,800.00
7.	800 ton	4" Hot Mix Asphalt (N. 3 Blks)	\$85.00 /ton =	\$68,000.00
8.	5 each	ADA Pedestrian Curb Ramps	\$750.00 /ea. =	\$3,750.00
9.	4 ea.	Adjust Manhole Frame & Ring Casting	\$750.00 /ea. =	\$3,000.00
10.	4 ea.	Adjust Water Valve	\$400.00 /ea. =	\$1,600.00
11.	1,200 ln. ft.	Road Guard Rails	\$35.00 /ln. ft. =	\$42,000.00
12.	200 sq. yds	6" PCC Driveway	\$50.00 /sq. yd. =	\$10,000.00
13.	3,000 sq. yds	Terrace Grading	\$2.00 /sq. yd. =	\$6,000.00
14.	1 ac.	Seeding, fertilizing & mulching	\$4,000.00 /ac. =	\$4,000.00
15.	1 ea.	Mobilization and Traffic Control	\$20,000.00 /ln. ft. =	\$20,000.00
Construction Subtotal				\$332,850.00
Contingencies (10%)				\$33,150.00
Engineering and Testing				\$41,000.00
Estimated Subtotal				\$407,000.00
<u>Storm Sewer</u>				
16.	4 ea.	Type A Intake	\$2,750.00 /ea. =	\$11,000.00
17.	400 ln. ft.	15" RCP Storm Sewer	\$35.00 /ln. ft. =	\$14,000.00
Construction Subtotal				\$25,000.00
Contingencies (10%)				\$2,500.00
Engineering and Testing				\$3,500.00
Estimated Subtotal				\$31,000.00
Estimated Total Construction Cost				\$438,000.00

**2017 Street Improvements
Preliminary Quantities & Cost Opinion
Windom, Minnesota**

September 13, 2016

Segment #11, 16th Street (3rd Avenue East to R.O.W. Hwy 60/71)

ITEM NO.	NO. OF UNITS	ITEM DESCRIPTION	UNIT COST		TOTAL ITEM COST
<u>Paving</u>					
1.	1,300 cu. yd.	Street excavation and embankment	\$8.00	=	\$10,400.00
2.	3,100 sq. yd.	12" Subgrade preparation	\$3.00	=	\$9,300.00
3.	3,100 sq. yds	12" Granular Base	\$12.00	=	\$37,200.00
4.	3,000 sq. yds	Pavement Removal	\$8.00	=	\$24,000.00
5.	1,000 ln. ft.	B624Curb and Gutter	\$16.00	=	\$16,000.00
6.	900 ton	6" Hot Mix Asphalt	\$85.00	=	\$76,500.00
7.	670 sq. yds	6" PCC Driveway	\$50.00	=	\$33,500.00
8.	40 sq. yds	4" PCC Sidewalk	\$45.00	=	\$1,800.00
9.	80 sq. yds	8" PCC Valley Gutter	\$70.00	=	\$5,600.00
10.	4 ea.	ADA Pedestrian Curb Ramps	\$750.00	=	\$3,000.00
11.	2 ea.	Adjust Manhole Frame & Ring Casting	\$750.00	=	\$1,500.00
12.	1 ea.	Adjust Water Valve	\$400.00	=	\$400.00
13.	1,250 sq. yd.	Terrace grading	\$2.00 /sq. yd.	=	\$2,500.00
14.	0.3 ac.	Seeding, fertilizing & mulching	\$4,000.00 /ac.	=	\$1,200.00
15.	1 L.S.	Mobilization and Traffic Control	\$3,000.00 /L.S.	=	\$3,000.00
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Construction Subtotal					\$225,900.00
Contingencies (10%)					\$23,100.00
Engineering and Testing					\$28,000.00
<hr/>					
Estimated Subtotal					\$277,000.00
<u>Water</u>					
16.	400 ln. ft.	12" C900 Water Main	\$50.00 /ln. ft.	=	\$20,000.00
17.	3 ea.	Connect to Existing Water	\$1,000.00 /ea.	=	\$3,000.00
18.	270 ln. ft.	Cl. 200 Water Service	\$22.00 /ln. ft.	=	\$5,940.00
19.	7 ea.	Curb Stop w/box	\$200.00 /ea.	=	\$1,400.00
20.	7 ea.	Corp Stop	\$200.00 /ea.	=	\$1,400.00
21.	3 ea.	12" Valve	\$2,200.00 /ea.	=	\$6,600.00
22.	2 ea.	6" Gate Valve	\$1,200.00 /ea.	=	\$2,400.00
23.	2 ea.	Hydrant	\$4,000.00 /ea.	=	\$8,000.00
24.	2 ea.	Tee	\$800.00 /ea.	=	\$1,600.00
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Construction Subtotal					\$50,340.00
Contingencies (10%)					\$5,660.00
Engineering and Testing					\$6,000.00
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Estimated Subtotal					\$62,000.00
<u>Sanitary Sewer</u>					
25.	200 ln. ft.	8" SDR-26 Sanitary Sewer	\$45.00 /ln. ft.	=	\$9,000.00
26.	100 ln. ft.	4" SDR-26 Sanitary Sewer Service	\$25.00 /ln. ft.	=	\$2,500.00
27.	2 ea.	Wye	\$200.00 /ea.	=	\$400.00
28.	2 ea.	Connect to existing	\$500.00 /ea.	=	\$1,000.00
<hr/>					
Construction Subtotal					\$12,900.00
Contingencies (10%)					\$1,100.00
Engineering and Testing					\$2,000.00
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Estimated Subtotal					\$16,000.00
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Estimated Total Construction Cost					\$355,000.00

**2017 Street Improvements
Preliminary Quantities & Cost Opinion
Windom, Minnesota**

September 13, 2016

Segment #12, City Hall Parking Lot & Alley

ITEM NO.	NO. OF UNITS	ITEM DESCRIPTION	UNIT COST	TOTAL ITEM COST
<u>Paving</u>				
1.	1,300 cu. yd.	Street excavation and embankment	\$8.00 /cu. yd. =	\$10,400.00
2.	3,500 sq. yd.	12" Subgrade preparation	\$3.00 /sq. yd. =	\$10,500.00
2.	3,501 sq. yd.	Pavement Removal	\$3.00 /sq. yd. =	\$10,503.00
2.	3,500 sq. yd.	8" Granular Base	\$8.00 /sq. yd. =	\$28,000.00
3.	790 ton	4" Hot Mix Asphalt	\$85.00 /ton =	\$67,150.00
4.	80 sq. yds	6" PCC Driveway	\$50.00 /sq. yd. =	\$4,000.00
5.	60 sq. yds	5" PCC Sidewalk	\$60.00 /sq. yd. =	\$3,600.00
6.	70 ln. ft.	Curb and Gutter (match existing)	\$16.00 /ln. ft. =	\$1,120.00
7.	0 ea.	ADA Pedestrian Curb Ramps	\$1,200.00 /sq. yd. =	\$0.00
8.	0 ea.	Adjust Manhole Frame & Ring Casting	\$1,000.00 /ln. ft. =	\$0.00
9.	1 ft.	Adjust Water Valve	\$400.00 /ea. =	\$400.00
10.	1 L.S.	Painted Parking Markings	\$1,500.00 /L.S. =	\$1,500.00
11.	1 L.S.	Mobilization and Traffic Control	\$3,000.00 /L.S. =	\$3,000.00
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Construction Subtotal				\$140,173.00
Contingencies (10%)				\$13,827.00
Engineering and Testing				\$18,000.00
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Estimated Subtotal				\$172,000.00
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<u>Storm Sewer</u>				
12.	350 ln. ft.	15" RCP Storm Sewer	\$35.00 /ln.ft. =	\$12,250.00
13.	5 ea.	Type A Intake	\$2,750.00 /ea. =	\$13,750.00
14.	5 ea.	Connect roof drains	\$1,000.00 /ea. =	\$5,000.00
15.	60 ln. ft.	6" SDR 26	\$30.00 /ln. ft. =	\$1,800.00
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Construction Subtotal				\$32,800.00
Contingencies (10%)				\$3,200.00
Engineering and Testing				\$4,000.00
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Estimated Subtotal				\$40,000.00
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Estimated Total Construction Cost				\$212,000.00

**2017 Street Improvements
Preliminary Quantities & Cost Opinion
Windom, Minnesota**

September 13, 2016

Segment #13, Alley(Hwy 60/71 to 3rd Ave., between 10th St. & 11th St.)

ITEM NO.	NO. OF UNITS	ITEM DESCRIPTION	UNIT COST	TOTAL ITEM COST
<u>Paving</u>				
1.	950 sq. yds	Pavement Removal	\$8.00 /sq. yd. =	\$7,600.00
2.	400 cu. yd.	Street excavation and embankment	\$8.00 /cu. yd. =	\$3,200.00
3.	950 sq. yds	12" Subgrade preparation	\$3.00 /sq. yd. =	\$2,850.00
4.	950 sq. yds	8" Granular Base	\$8.00 /sq. yd. =	\$7,600.00
5.	250 ton	4" Hot Mix Asphalt	\$85.00 /ton =	\$21,250.00
6.	45 sq. yds	6" PCC Driveway	\$45.00 /sq. yd. =	\$2,025.00
7.	40 ln. ft.	Curb and Gutter (match existing)	\$16.00 /ln. ft. =	\$640.00
8.	1 L.S.	Mobilization and Traffic Control	\$3,000.00 /L.S. =	\$3,000.00
Construction Subtotal				\$48,165.00
Contingencies (10%)				\$4,835.00
Engineering and Testing				\$7,000.00
Estimated Subtotal				\$60,000.00
<u>Storm Sewer</u>				
9.	240 ln. ft.	15" RCP Storm Sewer	\$35.00 /ln.ft. =	\$8,400.00
10.	1 ea.	Type A Intake	\$2,750.00 /ea. =	\$2,750.00
11.	5 ea.	Connect roof drains	\$1,000.00 /ea. =	\$5,000.00
12.	60 ln. ft.	6" SDR 26	\$30.00 /ln. ft. =	\$1,800.00
Construction Subtotal				\$17,950.00
Contingencies (10%)				\$1,850.00
Engineering and Testing				\$2,200.00
Estimated Subtotal				\$22,000.00
Estimated Total Construction Cost				\$82,000.00

Segments Considered but
Removed from Project (2017)

**2017 Street Improvements
Preliminary Quantities & Cost Opinion
Windom, Minnesota**

September 13, 2016

Segment #2, 17th Avenue (River Road to Jamison Drive)- Not 2017

ITEM NO.	NO. OF UNITS	ITEM DESCRIPTION	UNIT COST	TOTAL ITEM COST
<u>Paving</u>				
1.	1,500 cu. yd.	Street excavation and embankment	\$8.00 /cu. yd. =	\$12,000.00
2.	3,050 sq. yd.	12" Subgrade preparation	\$3.00 /sq. yd. =	\$9,150.00
3.	3,050 sq. yds	12" Granular Base	\$12.00 /sq. yd. =	\$36,600.00
4.	40 ln. ft.	Curb and Gutter (Match Existing)	\$16.00 /ln. ft. =	\$640.00
5.	650 ton	4" Hot Mix Asphalt	\$85.00 /ton =	\$55,250.00
6.	3050 sq. yds	Pavement Removal	\$8.00 /sq. yd. =	\$24,400.00
7.	280 sq. yds	8" PCC Valley Gutter	\$70.00 /sq. yd. =	\$19,600.00
8.	4 each	Adjust Manhole Frame & Ring Casting	\$750.00 /ea. =	\$3,000.00
9.	0 ea.	Adjust Water Valve	\$400.00 /ea. =	\$0.00
10.	60 sq. yd.	Terrace grading	\$2.00 /sq. yd. =	\$120.00
11.	0.1 ac.	Seeding, fertilizing & mulching	\$4,000.00 /ac. =	\$200.00
12.	50 ln. ft.	Bio-wattles	\$5.00 /ln. ft. =	\$250.00
13.	9 ea.	Intake Protection	\$350.00 /ea. =	\$3,150.00
14.	1 L.S.	Mobilization and Traffic Control	\$4,500.00 /L.S. =	\$4,500.00
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Construction Subtotal				\$168,860.00
Contingencies (10%)				\$17,140.00
Engineering and Testing				\$23,000.00
<hr/>				
Estimated Subtotal				\$209,000.00
<u>Water</u>				
15	40 ln. ft.	6" C900 Water Main	\$32.00 /ln. ft. =	\$1,280.00
16.	40 ln. ft.	Cl. 200 Water Service	\$22.00 /ln. ft. =	\$880.00
17.	1 ea.	Curb Stop w/box	\$200.00 /ea. =	\$200.00
18.	1 ea.	Corp Stop	\$200.00 /ea. =	\$200.00
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Construction Subtotal				\$2,560.00
Contingencies (10%)				\$440.00
Engineering and Testing				\$1,000.00
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Estimated Subtotal				\$4,000.00

**2017 Street Improvements
Preliminary Quantities & Cost Opinion
Windom, Minnesota**

September 13, 2016

Segment #2, 17th Avenue (River Road to Jamison Drive)- Not 2017

Storm Sewer

19.	90 In. ft.	15" RCP Storm Sewer	\$35.00 /In. ft.	=	\$3,150.00
20.	340 In. ft.	18" RCP Storm Sewer	\$40.00 /In.ft.	=	\$13,600.00
21.	700 In. ft.	30" RCP Storm Sewer	\$75.00 /In.ft.	=	\$52,500.00
22.	6 ea.	Type A Intake	\$2,750.00 /ea.	=	\$16,500.00
23.	4 ea.	5'x5' Storm Manhole	\$3,200.00 /ea.	=	\$12,800.00
24.	1 ea.	Connect to Existing Storm Sewer	\$750.00 /ea.	=	\$750.00
25.	1600 In. ft.	4" Perforated subdrain	\$7.00 /In. ft.	=	\$11,200.00
26.	6 ea.	Subdrain Intake Outlet	\$250.00 /ea.	=	\$1,500.00

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Construction Subtotal					\$112,000.00
Contingencies (10%)					\$11,000.00
Engineering and Testing					\$15,000.00

Estimated Subtotal					\$138,000.00
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Sanitary Sewer

27.	40 In. ft.	4" SDR-26 Sanitary Sewer Service	\$25.00 /In. ft.	=	\$1,000.00
28.	1 ea.	Wye	\$200.00 /ea.	=	\$200.00
29.	1 ea.	Connect to existing Sanitary Manhole	\$1,000.00 /ea.	=	\$1,000.00
30.	40 In. ft.	8" SDR-26 Sanitary Sewer	\$45.00 /In. ft.	=	\$1,800.00

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Construction Subtotal					\$4,000.00
Contingencies (10%)					\$400.00
Engineering and Testing					\$600.00

Estimated Subtotal					\$5,000.00
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Estimated Total Construction Cost					\$356,000.00
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Segment #2, 17th Avenue (Optional Water Main work)

1.	850 In. ft.	8" C900 Water Main	\$26.00 /In. ft	=	\$22,100.00
2.	3 ea..	Tee	\$800.00 /ea.	=	\$2,400.00
3.	1 ea..	Cross	\$1,200.00 /ea.	=	\$1,200.00
4.	6 ea..	8" Gate Valve	\$1,800.00 /ea.	=	\$10,800.00
5.	4 ea..	Connect to Existing Water	\$1,000.00 /ea.	=	\$4,000.00
6.	100 sq. yd..	Pavement Removal	\$8.00 /sq. yd.	=	\$800.00
7.	25 ton.	Granular Stabilization	\$25.00 /ton	=	\$625.00
8.	150 In. ft..	Curb and Gutter (Match Existing)	\$16.00 /In. ft.	=	\$2,400.00
9.	350 In. ft..	Cl. 200 Water Service	\$22.00 / In. ft.	=	\$7,700.00
10.	9 ea..	Curb Stop w/box	\$200.00 /ea.	=	\$1,800.00
11.	9 ea..	Corp Stop	\$200.00 /ea.	=	\$1,800.00
12.	1 ea..	Fire Hydrant	\$4,000.00 /ea.	=	\$4,000.00
13.	1 L.S..	Mobilization and Traffic Control	\$4,500.00 /L.S.	=	\$4,500.00

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Construction Subtotal					\$64,125.00
Contingencies (10%)					\$6,875.00
Engineering and Testing					\$9,000.00

Estimated Subtotal					\$80,000.00
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**2017 Street Improvements
Preliminary Quantities & Cost Opinion
Windom, Minnesota**

September 13, 2016

Segment #4, 17th Street (15th Avenue to 17th Avenue) - Not Used

ITEM NO.	NO. OF UNITS	ITEM DESCRIPTION	UNIT COST	TOTAL ITEM COST
<u>Paving</u>				
1.	7,270 sq. yds	Pavement Removal	\$8.00 /sq. yd. =	\$58,160.00
2.	7,270 sq. yds	12" Granular Base	\$12.00 /sq. yd. =	\$87,240.00
3.	1,650 ton	4" Hot Mix Asphalt	\$85.00 /ton =	\$140,250.00
4.	300 In. ft.	Curb and Gutter (Match Existing)	\$16.00 /ton =	\$4,800.00
5.	130 sq. yds	8" PCC Valley Gutter	\$70.00 /sq. yd. =	\$9,100.00
6.	6 ea.	Adjust Manhole Frame & Ring Casting	\$750.00 /ea. =	\$4,500.00
7.	2 ea.	Adjust Water Valve	\$400.00 /ea. =	\$800.00
8.	11 ea.	Inlet Protection	\$350.00 /ea. =	\$3,850.00
9.	1 L.S.	Mobilization and Traffic Control	\$13,000.00 /L.S. =	\$13,000.00
Construction Subtotal				\$321,700.00
Contingencies (10%)				\$32,300.00
Engineering and Testing				\$43,000.00
Estimated Subtotal				\$397,000.00
<u>Water</u>				
10.	400 In. ft.	Cl. 200 Water Service	\$22.00 /In. ft. =	\$8,800.00
11.	9 ea.	Curb Stop w/box	\$200.00 /ea. =	\$1,800.00
12.	9 ea.	Corp Stop	\$200.00 /ea. =	\$1,800.00
Construction Subtotal				\$12,400.00
Contingencies (10%)				\$1,600.00
Engineering and Testing				\$2,000.00
Estimated Subtotal				\$16,000.00
<u>Storm Sewer</u>				
13.	530 In. ft.	15" RCP Storm Sewer	\$35.00 /In.ft. =	\$18,550.00
14.	520 In. ft.	18" RCP Storm Sewer	\$40.00 /In.ft. =	\$20,800.00
15.	230 In. ft.	24" RCP Storm Sewer	\$45.00 /In.ft. =	\$10,350.00
16.	0 In. ft.	30" RCP Storm Sewer	\$50.00 /In.ft. =	\$0.00
17.	10 ea.	Type A Intake	\$2,750.00 /ea. =	\$27,500.00
18.	5 ea.	5'X5' Storm Manhole	\$3,200.00 /ea. =	\$16,000.00
Construction Subtotal				\$93,200.00
Contingencies (10%)				\$9,300.00
Engineering and Testing				\$12,500.00
Estimated Subtotal				\$115,000.00
<u>Sanitary Sewer</u>				
19.	300 In. ft.	4" SDR-26 Sanitary Sewer Service	\$25.00 /In. ft. =	\$7,500.00
20.	9 ea.	Wye	\$200.00 /ea. =	\$1,800.00
Construction Subtotal				\$9,300.00
Contingencies (10%)				\$1,200.00
Engineering and Testing				\$1,500.00
Estimated Subtotal				\$12,000.00
Estimated Total Construction Cost				\$540,000.00

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Segment #4, 17th Street (15th Avenue to 17th Avenue)- Not Used

Segment #4, 17th Street (Optional Water Main Work)

1.	2,100 In. ft.	8" C900 Water Main	\$32.00 /In. ft.	=	\$67,200.00
2.	50 In. ft.	6" C900 Water Main	\$26.00 /In. ft.	=	\$1,300.00
3.	3 ea.	Tee	\$800.00 /ea.	=	\$2,400.00
4.	1 ea.	Cross	\$1,200.00 /ea.	=	\$1,200.00
5.	3 ea.	8" Gate Valve	\$1,800.00 /ea.	=	\$5,400.00
6.	2 ea.	Connect to Existing Water	\$1,000.00 /ea.	=	\$2,000.00
7.	420 In. ft.	Curb and Gutter (Match Existing)	\$16.00 /In. ft.	=	\$6,720.00
8.	650 In. ft.	Cl. 200 Water Service	\$22.00 /In. ft.	=	\$14,300.00
9.	16 ea.	Curb Stop w/box (existing)	\$200.00 /ea.	=	\$3,200.00
10.	16 ea.	Corp Stop (existing)	\$200.00 /ea.	=	\$3,200.00
11.	3 ea.	Fire Hydrant	\$4,000.00 /ea.	=	\$12,000.00
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Construction Subtotal					\$118,920.00
Contingencies (10%)					\$12,080.00
Engineering and Testing					\$15,000.00
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Estimated Construction Cost					\$146,000.00

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Segment #10, Alt Option- 6th Avenue (Hwy 60 to City Limits, Overlay only)

ITEM NO.	NO. OF UNITS	ITEM DESCRIPTION	UNIT COST	TOTAL ITEM COST
<u>Paving</u>				
1.	800 sq. yds	Mill Existing Bituminous Pavement	\$5.00 /sq. yd. =	\$4,000.00
2.	2,400 ton	3" Hot Mix Asphalt Overlay (S. of City Limits)	\$90.00 /ton =	\$216,000.00
3.	11,300 sq. yds	Anti Reflective Crack Fabric	\$5.00 /sq. yd. =	\$56,500.00
4.	5 ea.	Adjust Manhole Frame & Ring Casting	\$750.00 /ea. =	\$3,750.00
5.	7 ea.	Adjust Water Valve	\$400.00 /ea. =	\$2,800.00
6.	2,000 sq. yds	Terrace Grading	\$2.00 /sq. yd. =	\$4,000.00
7.	1 ac.	Seeding, fertilizing & mulching	\$4,000.00 /ac. =	\$4,000.00
8.	1 ea.	Mobilization and Traffic Control	\$15,000.00 /ln. ft. =	\$15,000.00
Construction Subtotal				\$306,050.00
Contingencies (10%)				\$30,950.00
Engineering and Testing				\$37,000.00
Estimated Subtotal				\$374,000.00

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Segment #10, Alternate Option- 6th Avenue (Hwy 60 to City Limits, 36'w Recon.)

ITEM NO.	NO. OF UNITS	ITEM DESCRIPTION	UNIT COST	TOTAL ITEM COST
<u>Paving (36' wide the entire length)</u>				
1.	12,000 cu. yd.	Street excavation and embankment	\$8.00 /cu. yd. =	\$96,000.00
2.	17,600 sq. yd.	12" Subgrade preparation	\$3.00 /sq. yd. =	\$52,800.00
3.	6,000 sq. yd.	Geogrid (as recommended by Geotek)	\$5.00 /sq. yd. =	\$30,000.00
4.	17,600 sq. yds	16" Granular Base	\$16.00 /sq. yd. =	\$281,600.00
5.	8,600 ln. ft.	B624 Curb and Gutter	\$16.00 /ln. ft. =	\$137,600.00
6.	850 ton	4" Hot Mix Asphalt (N. 3 blks, wt rated)	\$85.00 /ton =	\$72,250.00
7.	4,750 ton	6" Hot Mix Asphalt	\$85.00 /ton =	\$403,750.00
8.	14,500 sq. yds	Pavement Removal	\$8.00 /sq. yd. =	\$116,000.00
9.	250 sq. yds	6" PCC Driveway	\$50.00 /sq. yd. =	\$12,500.00
10.	670 sq. yds	4" PCC Sidewalk	\$45.00 /sq. yd. =	\$30,150.00
11.	100 sq. yds	8" PCC Valley Gutter	\$70.00 /sq. yd. =	\$7,000.00
12.	5 ea.	ADA Pedestrian Curb Ramps	\$750.00 /ea. =	\$3,750.00
13.	110 ton	Granular Stabilization	\$25.00 /ton =	\$2,750.00
14.	25,000 sq. yd.	Terrace grading	\$2.00 /sq. yd. =	\$50,000.00
15.	7.0 ac.	Seeding, fertilizing & mulching	\$4,000.00 /ac. =	\$28,000.00
16.	2,000 ln. ft.	Bio-wattles	\$5.00 /ln. ft. =	\$10,000.00
17.	1,200 ln. ft.	Road Guard Rails	\$35.00 /ln. ft. =	\$42,000.00
18.	32 ea.	Intake Protection	\$350.00 /ea. =	\$11,200.00
19.	1 L.S.	Mobilization and Traffic Control	\$12,000.00 /L.S. =	\$12,000.00
20.	250 ton	Granular Surfacing	\$20.00 /ton =	\$5,000.00
Construction Subtotal				\$1,404,350.00
Contingencies (10%)				\$140,650.00
Engineering and Testing				\$155,000.00
Estimated Subtotal				\$1,700,000.00
<u>Water</u>				
20.	5,250 ln. ft.	12" C900 Water Main	\$50.00 /ln. ft. =	\$262,500.00
21.	250 ln. ft.	6" C900 Water Main	\$26.00 /ln. ft. =	\$6,500.00
22.	15 ea.	Tee	\$800.00 /ea. =	\$12,000.00
23.	2 ea.	Cross	\$1,200.00 /ea. =	\$2,400.00
24.	20 ea.	8" Gate Valve	\$1,800.00 /ea. =	\$36,000.00
25.	10 ea.	6" Gate Valve	\$1,200.00 /ea. =	\$12,000.00
26.	8 ea.	Connect to Existing Water	\$1,000.00 /ea. =	\$8,000.00
27.	350 ln. ft.	Cl. 200 Water Service	\$22.00 /ln. ft. =	\$7,700.00
28.	10 ea.	Curb Stop w/box	\$200.00 /ea. =	\$2,000.00
29.	10 ea.	Corp Stop	\$200.00 /ea. =	\$2,000.00
30.	10 ea.	Fire Hydrant	\$4,000.00 /ea. =	\$40,000.00
Construction Subtotal				\$391,100.00
Contingencies (10%)				\$38,900.00
Engineering and Testing				\$43,000.00
Estimated Subtotal				\$473,000.00

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Segment #10, Alternate Option- 6th Avenue (Hwy 60 to City Limits, 36'w Recon.)

Storm Sewer

31.	70 In. ft.	48" RCP Storm Sewer	\$150.00 /In. ft.	=	\$10,500.00
32.	70 In. ft.	30" RCP Storm Sewer	\$50.00 /In. ft.	=	\$3,500.00
33.	2,250 In. ft.	15" RCP Storm Sewer	\$35.00 /In. ft.	=	\$78,750.00
34.	34 ea.	Type A Intake	\$2,750.00 /ea.	=	\$93,500.00
35.	7 ea.	5'x5' Storm Manhole	\$3,200.00 /ea.	=	\$22,400.00
36.	2 ea.	36" Pipe Aprons	\$1,600.00 /ea.	=	\$3,200.00
37.	10 ea.	Connect to Existing Storm Sewer	\$750.00 /ea.	=	\$7,500.00
38.	10,700 In. ft.	4" Perforated subdrain	\$7.00 /In. ft.	=	\$74,900.00
39.	18 ea.	Subdrain Intake Outlet	\$250.00 /ea.	=	\$4,500.00

Construction Subtotal	\$298,750.00
Contingencies (10%)	\$30,250.00
Engineering and Testing	\$33,000.00

Estimated Subtotal	\$362,000.00
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Sanitary Sewer

40.	150 In. ft.	8" SDR-26 Sanitary Sewer	\$45.00 /In. ft.	=	\$6,750.00
41.	200 In. ft.	4" SDR-26 Sanitary Sewer Service	\$25.00 /In. ft.	=	\$5,000.00
42.	4 ea.	Wye	\$200.00 /ea.	=	\$800.00
43.	2 ea.	Sanitary Manhole	\$3,750.00 /ea.	=	\$7,500.00
44.	2 ea.	Connect to Existing Sanitary	\$500.00 /ea.	=	\$1,000.00

Construction Subtotal	\$21,050.00
Contingencies (10%)	\$2,950.00
Engineering and Testing	\$3,000.00

Estimated Subtotal	\$27,000.00
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Estimated Total Construction Cost	\$2,562,000.00
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Segment #14, 17th Avenue/17th Street Intersection

ITEM NO.	NO. OF UNITS	ITEM DESCRIPTION	UNIT COST	TOTAL ITEM COST
<u>Paving</u>				
1.	515 sq. yds	Mill Existing Bituminous Pavement	\$5.00 /sq. yd. =	\$2,575.00
2.	100 ton	3" Hot Mix Asphalt Overlay	\$105.00 /ton =	\$10,500.00
3.	515 sq. yds	Anti Reflective Crack Fabric	\$5.00 /sq. yd. =	\$2,575.00
4.	1 ea.	Adjust Manhole Frame & Ring Casting	\$750.00 /ea. =	\$750.00
5.	1 ea.	Adjust Water Valve	\$400.00 /ea. =	\$400.00
6.	1 ea.	Mobilization and Traffic Control	\$1,500.00 /ln. ft. =	\$1,500.00
Construction Subtotal				\$18,300.00
Contingencies (10%)				\$1,700.00
Engineering and Testing				\$3,000.00
Estimated Subtotal				\$23,000.00

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Segment #15, 16th Street Railroad Crossing

ITEM NO.	NO. OF UNITS	ITEM DESCRIPTION	UNIT COST	TOTAL ITEM COST
1.	200 sq. yds	Mill Existing Bituminous Pavement	\$5.00 /sq. yd. =	\$1,000.00
2.	50 ton	3" Hot Mix Asphalt Overlay	\$120.00 /ton =	\$6,000.00
3.	200 sq. yds	Anti Reflective Crack Fabric	\$5.00 /sq. yd. =	\$1,000.00
4.	1 ea.	Railroad Flaggers, Agreement & Insurance	\$5,000.00 /ea. =	\$5,000.00
5.	1 ea.	Mobilization and Traffic Control	\$1,500.00 /ln. ft. =	\$1,500.00
Construction Subtotal				\$14,500.00
Contingencies (10%)				\$1,500.00
Engineering and Testing				\$2,000.00
Estimated Subtotal				\$18,000.00