

**PROJECT: The Preserve at Northfork : 2nd Addition**

LOCATION : RAMSEY, MINNESOTA

Engineers Estimate

PREPARED FOR : BK LAND DEVELOPMENT  
PREPARED BY : SATHRE-BERGQUIST, INC.

Date: May 25, 2021

| <u>Description</u>                | <u>Unit</u> | Quantity | Unit Price  | Cost        |
|-----------------------------------|-------------|----------|-------------|-------------|
| <b>Sanitary</b>                   |             |          |             |             |
| Mobilization - Utility            | L.S.        | 1.0      | \$5,000.00  | \$5,000.00  |
| Permits & Bonds                   | L.S.        | 1.0      | \$0.01      | \$0.01      |
| 8" PVC SDR 35 (0-13' bury)        | L.F.        | 657.0    | \$32.00     | \$21,024.00 |
| 8" PVC SDR 26 (13'-25' bury)      | L.F.        | 998.0    | \$42.00     | \$41,916.00 |
| Manhole 0-8'                      | EACH        | 8.0      | \$2,350.00  | \$18,800.00 |
| Manhole Extra Depth               | L.F.        | 43.2     | \$175.00    | \$7,560.00  |
| Furnish & Install Castings        | EACH        | 8.0      | \$555.00    | \$4,440.00  |
| 8" x 4" Wyes SDR 26               | EACH        | 46.0     | \$175.00    | \$8,050.00  |
| 4" PVC Service SDR 26             | EACH        | 46.0     | \$550.00    | \$25,300.00 |
| 4" PVC Risers SDR 26              | L.F.        | 127.0    | \$25.00     | \$3,175.00  |
| Connect to Existing               | EACH        | 1.0      | \$5,000.00  | \$5,000.00  |
| Trench Rock                       | TONS        | 455.1    | \$0.01      | \$4.55      |
| Televise                          | L.F.        | 1,655.0  | \$1.50      | \$2,482.50  |
| Insulate (-4x8x2 Sheets, 2sheets) | EACH        | 1.0      | \$1,000.00  | \$1,000.00  |
| Dewatering                        | L.S.        | 1.0      | \$65,000.00 | \$65,000.00 |

Sanitary Total: \$208,752.06

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|---|-------------|----------|------------|-------------|
| <b>Watermain -</b>  |             |          |            |             |
| Watermain 6" DIP CL 53  | L.F.        | 70.0     | \$42.00    | \$2,940.00  |
| Watermain 8" DIP CL 52  | L.F.        | 2,205.0  | \$43.00    | \$94,815.00 |
| Watermain Lowering (includes 4 - 45 degree bends) 8 inch            | EACH        | 1.0      | \$1,750.00 | \$1,750.00  |
| Connect to Existing (Remove and Dispose Plug)                       | EACH        | 3.0      | \$2,500.00 | \$7,500.00  |
| 6" Valves   | EACH        | 6.0      | \$1,350.00 | \$8,100.00  |
| 8" Valves   | EACH        | 3.0      | \$1,650.00 | \$4,950.00  |
| Valve Box Apaptor II #6 Base - By Adaptor Inc. (On All 6"-12" GV's) | EACH        | 9.0      | \$125.00   | \$1,125.00  |
| 8" x 6" Tee   | EACH        | 6.0      | \$500.00   | \$3,000.00  |
| 8" x 8" Tee   | EACH        | 1.0      | \$550.00   | \$550.00    |
| 8" Bends  | EACH        | 14.0     | \$400.00   | \$5,600.00  |
| Hydrants (WB-67-250)  | EACH        | 6.0      | \$4,250.00 | \$25,500.00 |
| 0.5' Hydrant Extension  | EACH        | 2.0      | \$600.00   | \$1,200.00  |
| 1" Services   | EACH        | 47.0     | \$1,100.00 | \$51,700.00 |
| Improved Pipe Fndtn   | L.F.        | 2,275.0  | \$0.01     | \$22.75     |

Watermain Total: \$208,752.75

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| <u>Description</u>                     | <u>Unit</u> | <u>Quantity</u> | <u>Unit Price</u> | <u>Cost</u> |
|--|-------------|-----------------|-------------------|-------------|
| <b>Storm Sewer -</b>                   |             |                 |                   |             |
| 15" RCP - CI 5                         | L.F.        | 1,669.0         | \$45.00           | \$75,105.00 |
| 18" RCP - CI 5                         | L.F.        | 334.0           | \$50.00           | \$16,700.00 |
| 21" RCP - CL 4                         | L.F.        | 44.0            | \$55.00           | \$2,420.00  |
| Storm Sewer Tracer Wire                | L.F.        | 2,047.0         | \$1.00            | \$2,047.00  |
| 15" RCP APRON (w/ Trash Guard)         | EACH        | 9.0             | \$1,350.00        | \$12,150.00 |
| 21" RCP APRON (w/ Trash Guard)         | EACH        | 1.0             | \$1,650.00        | \$1,650.00  |
| Catchbasin(2'x3' - R3067V Casting)     | EACH        | 3.0             | \$1,350.00        | \$4,050.00  |
| Catchbasin/Manhole (4' Dia)            | EACH        | 16.0            | \$2,000.00        | \$32,000.00 |
| Storm Manhole (4' Dia)                 | EACH        | 2.0             | \$2,000.00        | \$4,000.00  |
| Furnish & Install Castings             | EACH        | 21.0            | \$685.00          | \$14,385.00 |
| Storm Sewer Inlet Protection (wimco's) | EACH        | 19.0            | \$0.01            | \$0.19      |
| Improved Pipe Fndtn                    | L.F.        | 2,047.0         | \$0.01            | \$20.47     |
| Rip Rap                                | C.Y.        | 42.0            | \$95.00           | \$3,990.00  |
| Televise                               | L.F.        | 2,047.0         | \$1.50            | \$3,070.50  |

Storm Sewer Total: \$171,588.16

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| <u>Description</u>                       | <u>Unit</u> | Quantity | Unit Price | Cost        |
|--|-------------|----------|------------|-------------|
| <b>Street Construction</b>               |             |          |            |             |
| Mobilization - Streets                   | L.S.        | 1.0      | \$7,500.00 | \$7,500.00  |
| Permits & Bonds                          | L.S.        | 1.0      | \$0.01     | \$0.01      |
| Curb Removal & Disposal                  | L.F.        | 90.0     | \$5.00     | \$450.00    |
| Sawcut and Mill 18"                      | L.F.        | 90.0     | \$5.00     | \$450.00    |
| Subgrade Preparation                     | S.Y.        | 7,535.0  | \$1.50     | \$11,302.50 |
| Remove Temporary Cul-de-sac              | EACH        | 1.0      | \$3,500.00 | \$3,500.00  |
| Remove Temporary Access Drive            | L.S.        | 1.0      | \$5,000.00 | \$5,000.00  |
| Curb & Gutter (B618)                     | L.F.        | 330.0    | \$19.00    | \$6,270.00  |
| Curb & Gutter Surmountable (28")         | L.F.        | 3,600.0  | \$14.00    | \$50,400.00 |
| Backfill Curb & Gutter                   | L.F.        | 3,930.0  | \$1.25     | \$4,912.50  |
| 6' Wide Concrete Walk - 6" Concrete      | L.F.        | 1,950.0  | \$31.50    | \$61,425.00 |
| 10' Bit Trail                            | L.F.        | 1,890.0  | \$26.00    | \$49,140.00 |
| Ped Ramps                                | EACH        | 6.0      | \$1,750.00 | \$10,500.00 |
| 4" Class 5 Base                          | TONS        | 1,800.0  | \$16.50    | \$29,700.00 |
| 2.0" Bit Base Coarse                     | TONS        | 735.0    | \$75.00    | \$55,125.00 |
| 1.5" Bit Wear Course                     | TONS        | 550.0    | \$75.00    | \$41,250.00 |
| Tack Coat                                | GALS        | 325.0    | \$0.01     | \$3.25      |
| Regrade Boulevards after Small Utilities | L.F.        | 3,930.0  | \$0.01     | \$39.30     |
| Restoration                              | L.S.        | 1.0      | \$2,500.00 | \$2,500.00  |
| Blvd Sod & Silt Fence                    | L.F.        | 3,930.0  | \$1.50     | \$5,895.00  |

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| Description                      | Unit | Quantity | Unit Price | Cost       |
|----------------------------------|------|----------|------------|------------|
| Adjust Castings-Base Course      | EACH | 10.0     | \$500.00   | \$5,000.00 |
| Adjust Castings - Wear Course    | EACH | 10.0     | \$0.01     | \$0.10     |
| Adjust Gate Valves - Base Course | EACH | 4.0      | \$400.00   | \$1,600.00 |
| Adjust Gate Valves - Wear Course | EACH | 4.0      | \$0.01     | \$0.04     |
| Street Name Signs                | EACH | 4.0      | \$450.00   | \$1,800.00 |
| Street Stop Signs - R1-1         | EACH | 2.0      | \$400.00   | \$800.00   |
| Conduit Crossings (estimated)    | EACH | 10.0     | \$750.00   | \$7,500.00 |

Street Base Total: \$362,062.70

SUMMARY :

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|--------------------|-------------|----------|---------------------|----------------------------|
|                    |             |          | Sanitary            | <u>\$208,752.06</u>        |
|                    |             |          | Watermain -         | <u>\$208,752.75</u>        |
|                    |             |          | Storm Sewer -       | <u>\$171,588.16</u>        |
|                    |             |          | Street Construction | <u>\$362,062.70</u>        |
|                    |             |          | <b>Total</b>        | <b><u>\$951,155.67</u></b> |