

**Gravel Road Elimination Program
Preliminary Estimated Project Costs**

Area A

ITEM No.	MNDOT No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT COST	COST EXTENSION	NOTES
1	2021.501	MOBILIZATION	LS	1	\$ 23,400.00	\$ 23,400.00	5-percent of estimated construction cost with 5-percent contingency.
2	2104.502	SALVAGE & RE-INSTALL MAILBOX SUPPORT	EA	11	\$ 250.00	\$ 2,750.00	
3	2104.502	CLEARING	EA	35	\$ 400.00	\$ 14,000.00	
4	2104.502	GRUBBING	EA	35	\$ 400.00	\$ 14,000.00	
5	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LF	66.00	\$ 5.00	\$ 330.00	
6	2105.607	COMMON EXCAVATION	CY	2,343.44	\$ 35.00	\$ 82,020.56	9.1" average aggregate depth per soil borings
7	2112.519	SUBGRADE PREPARATION	RDST	23.58	\$ 500.00	\$ 11,790.00	
8	2211.507	AGGREGATE BASE CLASS 5 MODIFIED (CV)	CY	1,669.33	\$ 50.00	\$ 83,466.67	EV to CV conv. factor = 1.25. 8" under pavement, 6" under driveways.
9	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GAL	440.16	\$ 5.00	\$ 2,200.80	
10	2360.509	TYPE SP 12.5 NON WEARING COURSE MIXTURE (3,C) 2.0"	TON	710.54	\$ 95.00	\$ 67,501.68	
11	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,C) 1.5"	TON	532.91	\$ 100.00	\$ 53,290.80	
12	2504.602	ADJUST VALVE BOX	EA	0.00	\$ 350.00	\$ -	
13	2506.502	ADJUST FRAME AND RING CASTING	EA	0.00	\$ 500.00	\$ -	
14	2531.503	CONCRETE CURB & GUTTER DESIGN B618	LF	0.00	\$ 40.00	\$ -	
15	2531.604	7" CONCRETE VALLEY GUTTER	SY	0.00	\$ 80.00	\$ -	
16	2573.502	STORM DRAIN INLET PROTECTION	EA	0.00	\$ 100.00	\$ -	
17	2574.507	TOPSOIL (LV)	CY	908.27	\$ 50.00	\$ 45,413.33	CV to LV conv. factor = 1.3.
18	2575.501	TURF ESTABLISHMENT	ACRE	1.30	\$ 35,000.00	\$ 45,471.07	MnDOT seed mix 25-151 plus fertilizer.
					<i>Estimated Construction Cost</i>	\$ 445,634.91	
					<i>5-Percent Contingency Cost</i>	\$ 22,281.75	
					<i>14-Percent Indirect Cost</i>	\$ 65,508.33	
					Estimated Project Cost	\$ 533,424.99	> Use \$540,000

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Area B

ITEM No.	MNDOT No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT COST	COST EXTENSION	NOTES	
1	2021.501	MOBILIZATION	LS	1	\$ 5,900.00	\$ 5,900.00	5-percent of estimated construction cost with 5-percent contingency.	
2	2104.502	SALVAGE & RE-INSTALL MAILBOX SUPPORT	EA	4	\$ 250.00	\$ 1,000.00		
3	2104.502	CLEARING	EA	25	\$ 400.00	\$ 10,000.00		
4	2104.502	GRUBBING	EA	25	\$ 400.00	\$ 10,000.00		
5	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LF	66.00	\$ 5.00	\$ 330.00		
6	2105.607	COMMON EXCAVATION	CY	504.86	\$ 35.00	\$ 17,670.25	5.25" average aggregate depth per soil borings	
7	2112.519	SUBGRADE PREPARATION	RDST	5.08	\$ 500.00	\$ 2,540.00		
8	2211.507	AGGREGATE BASE CLASS 5 MODIFIED (CV)	CY	365.43	\$ 50.00	\$ 18,271.60	EV to CV conv. factor = 1.25. 8" under pavement, 6" under driveways.	
9	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GAL	94.83	\$ 5.00	\$ 474.13		
10	2360.509	TYPE SP 12.5 NON WEARING COURSE MIXTURE (3,C) 2.0"	TON	153.08	\$ 95.00	\$ 14,542.35		
11	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,C) 1.5"	TON	114.81	\$ 100.00	\$ 11,480.80		
12	2504.602	ADJUST VALVE BOX	EA	0.00	\$ 350.00	\$ -		
13	2506.502	ADJUST FRAME AND RING CASTING	EA	0.00	\$ 500.00	\$ -		
14	2531.503	CONCRETE CURB & GUTTER DESIGN B618	LF	0.00	\$ 40.00	\$ -		
15	2531.604	7" CONCRETE VALLEY GUTTER	SY	0.00	\$ 80.00	\$ -		
16	2573.502	STORM DRAIN INLET PROTECTION	EA	0.00	\$ 100.00	\$ -		
17	2574.507	TOPSOIL (LV)	CY	195.67	\$ 50.00	\$ 9,783.70	CV to LV conv. factor = 1.3.	
18	2575.501	TURF ESTABLISHMENT	ACRE	0.28	\$ 35,000.00	\$ 9,796.14	MnDOT seed mix 25-151 plus fertilizer.	
					<i>Estimated Construction Cost</i>	\$	111,788.98	
					<i>5-Percent Contingency Cost</i>	\$	5,589.45	
					<i>14-Percent Indirect Cost</i>	\$	16,432.98	
					Estimated Project Cost	\$	133,811.41	> Use \$140,000

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Area C

ITEM No.	MNDOT No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT COST	COST EXTENSION	NOTES
1	2021.501	MOBILIZATION	LS	1	\$ 23,700.00	\$ 23,700.00	5-percent of estimated construction cost with 5-percent contingency.
2	2104.502	SALVAGE & RE-INSTALL MAILBOX SUPPORT	EA	20	\$ 250.00	\$ 5,000.00	
3	2104.502	CLEARING	EA	10	\$ 400.00	\$ 4,000.00	
4	2104.502	GRUBBING	EA	10	\$ 400.00	\$ 4,000.00	
5	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LF	132.00	\$ 5.00	\$ 660.00	
6	2105.607	COMMON EXCAVATION	CY	2,224.06	\$ 35.00	\$ 77,841.94	4.4" average aggregate depth per soil borings
7	2112.519	SUBGRADE PREPARATION	RDST	27.09	\$ 500.00	\$ 13,545.00	
8	2211.507	AGGREGATE BASE CLASS 5 MODIFIED (CV)	CY	1,475.78	\$ 50.00	\$ 73,788.89	EV to CV conv. factor = 1.25. 6" under pavement and driveways
9	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GAL	505.68	\$ 5.00	\$ 2,528.40	
10	2360.509	TYPE SP 12.5 NON WEARING COURSE MIXTURE (3,C) 2.0"	TON	816.31	\$ 95.00	\$ 77,549.64	
11	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,C) 1.5"	TON	612.23	\$ 100.00	\$ 61,223.40	
12	2504.602	ADJUST VALVE BOX	EA	6.00	\$ 350.00	\$ 2,100.00	
13	2506.502	ADJUST FRAME AND RING CASTING	EA	0.00	\$ 500.00	\$ -	
14	2531.503	CONCRETE CURB & GUTTER DESIGN B618	LF	0.00	\$ 40.00	\$ -	
15	2531.604	7" CONCRETE VALLEY GUTTER	SY	0.00	\$ 80.00	\$ -	
16	2573.502	STORM DRAIN INLET PROTECTION	EA	0.00	\$ 100.00	\$ -	
17	2574.507	TOPSOIL (LV)	CY	1,043.47	\$ 50.00	\$ 52,173.33	CV to LV conv. factor = 1.3.
18	2575.501	TURF ESTABLISHMENT	ACRE	1.49	\$ 35,000.00	\$ 52,239.67	MnDOT seed mix 25-151 plus fertilizer.
					<i>Estimated Construction Cost</i>	\$ 450,350.28	
					<i>5-Percent Contingency Cost</i>	\$ 22,517.51	
					<i>14-Percent Indirect Cost</i>	\$ 66,201.49	
					Estimated Project Cost	\$ 539,069.28	> Use \$540,000

**Gravel Road Elimination Program
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Area D

ITEM No.	MNDOT No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT COST	COST EXTENSION	NOTES
1	2021.501	MOBILIZATION	LS	1	\$ 13,700.00	\$ 13,700.00	5-percent of estimated construction cost with 5-percent contingency.
2	2104.502	SALVAGE & RE-INSTALL MAILBOX SUPPORT	EA	6	\$ 250.00	\$ 1,500.00	
3	2104.502	CLEARING	EA	20	\$ 400.00	\$ 8,000.00	
4	2104.502	GRUBBING	EA	20	\$ 400.00	\$ 8,000.00	
5	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LF	66.00	\$ 5.00	\$ 330.00	
6	2105.607	COMMON EXCAVATION	CY	1,244.62	\$ 35.00	\$ 43,561.60	12.67" average aggregate depth per soil borings
7	2112.519	SUBGRADE PREPARATION	RDST	15.16	\$ 500.00	\$ 7,580.00	
8	2211.507	AGGREGATE BASE CLASS 5 MODIFIED (CV)	CY	807.41	\$ 50.00	\$ 40,370.37	EV to CV conv. factor = 1.25. 6" under pavement and driveways.
9	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GAL	282.99	\$ 5.00	\$ 1,414.93	
10	2360.509	TYPE SP 12.5 NON WEARING COURSE MIXTURE (3,C) 2.0"	TON	456.82	\$ 95.00	\$ 43,398.03	
11	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,C) 1.5"	TON	342.62	\$ 100.00	\$ 34,261.60	
12	2504.602	ADJUST VALVE BOX	EA	0.00	\$ 350.00	\$ -	
13	2506.502	ADJUST FRAME AND RING CASTING	EA	0.00	\$ 500.00	\$ -	
14	2531.503	CONCRETE CURB & GUTTER DESIGN B618	LF	0.00	\$ 40.00	\$ -	
15	2531.604	7" CONCRETE VALLEY GUTTER	SY	0.00	\$ 80.00	\$ -	
16	2573.502	STORM DRAIN INLET PROTECTION	EA	0.00	\$ 100.00	\$ -	
17	2574.507	TOPSOIL (LV)	CY	583.94	\$ 50.00	\$ 29,197.04	CV to LV conv. factor = 1.3.
18	2575.501	TURF ESTABLISHMENT	ACRE	0.84	\$ 35,000.00	\$ 29,234.16	MnDOT seed mix 25-151 plus fertilizer.
					<i>Estimated Construction Cost</i>	\$ 260,547.73	
					<i>5-Percent Contingency Cost</i>	\$ 13,027.39	
					<i>14-Percent Indirect Cost</i>	\$ 38,300.52	
					Estimated Project Cost	\$ 311,875.64	> Use \$320,000

**Gravel Road Elimination Program
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Area E

ITEM No.	MNDOT No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT COST	COST EXTENSION	NOTES
1	2021.501	MOBILIZATION	LS	1	\$ 18,500.00	\$ 18,500.00	5-percent of estimated construction cost with 5-percent contingency.
2	2104.502	SALVAGE & RE-INSTALL MAILBOX SUPPORT	EA	13	\$ 250.00	\$ 3,250.00	
3	2104.502	CLEARING	EA	60	\$ 400.00	\$ 24,000.00	
4	2104.502	GRUBBING	EA	60	\$ 400.00	\$ 24,000.00	
5	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LF	66.00	\$ 5.00	\$ 330.00	
6	2105.607	COMMON EXCAVATION	CY	1,695.94	\$ 35.00	\$ 59,358.06	5.33" average aggregate depth per soil borings. Includes 625' additional 6" excavation west end.
7	2112.519	SUBGRADE PREPARATION	RDST	16.71	\$ 500.00	\$ 8,355.00	
8	2211.507	AGGREGATE BASE CLASS 5 MODIFIED (CV)	CY	1,236.74	\$ 50.00	\$ 61,837.04	EV to CV conv. factor = 1.25. 6" under pavement and driveways. Includes 625' additional 6" aggr base west end.
9	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GAL	311.92	\$ 5.00	\$ 1,559.60	
10	2360.509	TYPE SP 12.5 NON WEARING COURSE MIXTURE (3,C) 2.0"	TON	503.53	\$ 95.00	\$ 47,835.16	
11	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,C) 1.5"	TON	377.65	\$ 100.00	\$ 37,764.60	
12	2504.602	ADJUST VALVE BOX	EA	0.00	\$ 350.00	\$ -	
13	2506.502	ADJUST FRAME AND RING CASTING	EA	0.00	\$ 500.00	\$ -	
14	2531.503	CONCRETE CURB & GUTTER DESIGN B618	LF	0.00	\$ 40.00	\$ -	
15	2531.604	7" CONCRETE VALLEY GUTTER	SY	0.00	\$ 80.00	\$ -	
16	2573.502	STORM DRAIN INLET PROTECTION	EA	0.00	\$ 100.00	\$ -	
17	2574.507	TOPSOIL (LV)	CY	643.64	\$ 50.00	\$ 32,182.22	CV to LV conv. factor = 1.3.
18	2575.501	TURF ESTABLISHMENT	ACRE	0.92	\$ 35,000.00	\$ 32,223.14	MnDOT seed mix 25-151 plus fertilizer.
					<i>Estimated Construction Cost</i>	\$ 351,194.82	
					<i>5-Percent Contingency Cost</i>	\$ 17,559.74	
					<i>14-Percent Indirect Cost</i>	\$ 51,625.64	
					Estimated Project Cost	\$ 420,380.19	> Use \$430,000

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Area F

ITEM No.	MNDOT No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT COST	COST EXTENSION	NOTES
1	2021.501	MOBILIZATION	LS	1	\$ 19,300.00	\$ 19,300.00	8-percent of estimated construction cost with 5-percent contingency.
2	2104.502	SALVAGE & RE-INSTALL MAILBOX SUPPORT	EA	17	\$ 250.00	\$ 4,250.00	
3	2104.502	CLEARING	EA	10	\$ 400.00	\$ 4,000.00	
4	2104.502	GRUBBING	EA	10	\$ 400.00	\$ 4,000.00	
5	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LF	70.00	\$ 5.00	\$ 350.00	
6	2105.607	COMMON EXCAVATION	CY	1,056.61	\$ 35.00	\$ 36,981.39	6.875" average aggregate depth per soil borings
7	2112.519	SUBGRADE PREPARATION	RDST	12.87	\$ 500.00	\$ 6,435.00	
8	2211.507	AGGREGATE BASE CLASS 5 MODIFIED (CV)	CY	727.78	\$ 50.00	\$ 36,388.89	EV to CV conv. factor = 1.25. 6" under pavement and driveways.
9	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GAL	240.24	\$ 5.00	\$ 1,201.20	
10	2360.509	TYPE SP 12.5 NON WEARING COURSE MIXTURE (3,C) 2.0"	TON	387.82	\$ 95.00	\$ 36,842.52	
11	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,C) 1.5"	TON	290.86	\$ 100.00	\$ 29,086.20	
12	2504.602	ADJUST VALVE BOX	EA	0.00	\$ 350.00	\$ -	
13	2506.502	ADJUST FRAME AND RING CASTING	EA	0.00	\$ 500.00	\$ -	
14	2531.503	CONCRETE CURB & GUTTER DESIGN B618	LF	0.00	\$ 40.00	\$ -	
15	2531.604	7" CONCRETE VALLEY GUTTER	SY	0.00	\$ 80.00	\$ -	
16	2573.502	STORM DRAIN INLET PROTECTION	EA	0.00	\$ 100.00	\$ -	
17	2574.507	TOPSOIL (LV)	CY	495.73	\$ 50.00	\$ 24,786.67	CV to LV conv. factor = 1.3.
18	2575.501	TURF ESTABLISHMENT	ACRE	0.71	\$ 35,000.00	\$ 24,818.18	MnDOT seed mix 25-151 plus fertilizer.
				<i>Estimated Construction Cost</i>	\$	<i>228,440.05</i>	
				<i>5-Percent Contingency Cost</i>	\$	<i>11,422.00</i>	
				<i>14-Percent Indirect Cost</i>	\$	<i>33,580.69</i>	
				Estimated Project Cost	\$	273,442.74	> Use \$280,000