



VILLAGE OF BINGHAM FARMS ROAD IMPROVEMENTS PROGRAM PRELIMINARY OPINION OF TOTAL PROJECT COSTS

November 2023
13511

CURRENT ENR (Nov. 2023):

Estimate Number	Road	Approximate Road Length (ft)	Road Material	Estimated Total Project Cost Range ²		
				Shorter Term / Preventive Maintenance	Selective Rehabilitation	Longer Term Rehabilitation
1	Bingham Lane	3,730	Asphalt	\$ 569,400	\$ 569,400	\$ 1,923,500
2	Bingham Road	5,280	Asphalt	\$ 1,694,800	\$ 1,694,800	\$ 3,484,900
3	Bristol Lane	4,100	Asphalt	N/A**	\$ 2,640,600	\$ 2,640,600
4	Bristol Ct.	1,535	Asphalt	N/A**	\$ 889,800	\$ 889,800
5	Britner Ct.	665	Asphalt	N/A**	\$ 424,800	\$ 424,800
6	Brooks Lane	660	Asphalt	\$ 113,100	\$ 113,100	\$ 328,900
7	Coachlight Lane	705	Concrete	\$ 163,600	\$ 163,600	\$ 299,900
8	Fromm Court	1,360	Asphalt	\$ 252,300	\$ 252,300	\$ 632,900
9	Hickory Hollow	880	Asphalt	\$ 224,800	\$ 224,800	\$ 490,500
10	Old Orchard Trail	2,535	Asphalt	\$ 384,900	\$ 384,900	\$ 1,161,300
11	Old Stage Road	845	Concrete	\$ 218,100	\$ 218,100	\$ 346,600
12	Sager Ct.	695	Asphalt	N/A**	\$ 418,600	\$ 418,600
13	Shagwood Drive	1,780	Asphalt	\$ 404,300	\$ 404,300	\$ 868,600
14	Timber Trail - Road	2,215	Asphalt	\$ 596,900	\$ 596,900	\$ 919,500
14b	Timber Trail - Path *	2,215	Asphalt	\$ 325,400.00		N/A
Total:		26,985	N/A		\$ 8,996,000.00	\$ 14,830,400.00

* Road Length and Costs for Timber Trail Path alternative, not included in the Totals at the bottom of the table.

** Short Term/Preventative Maintenance not recommended due to existing soils and road condition.

Estimate Number	Road	Approximate Road Length (ft)	Road Material	Shorter Term / Preventive Maintenance	Longer Term Rehabilitation
1	Bingham Lane	3,730	Asphalt	Crack sealing, surface seal, ditch cleanout	HMA Rehab 5", underdrain, drainage improvements
2	Bingham Road	5,280	Asphalt	HMA resurfacing 2", ditch cleanout crack treatment, FD repairs	HMA Rehab 6", underdrain, drainage improvements, curb
3	Bristol Lane *	4,100	Asphalt	Not Recommended	HMA Rehab 5", underdrain, drainage improvements
4	Bristol Ct.	1,535	Asphalt	Not Recommended	HMA Rehab 5", underdrain, drainage improvements
5	Britner Ct.	665	Asphalt	Not Recommended	HMA Rehab 5", underdrain, drainage improvements
6	Brooks Lane	660	Asphalt	Crack sealing, slurry seal, ditch cleanout	HMA Rehab 4", underdrain, drainage improvements
7	Coachlight Lane	705	Concrete	Full Depth Concrete Repairs (smaller scope)	Full Depth Concrete Repairs (expanded scope)
8	Fromm Court	1,360	Asphalt	Crack sealing, cape seal, drainage improvements	HMA Rehab 4", underdrain, drainage improvements
9	Hickory Hollow	880	Asphalt	HMA resurfacing 2", ditch cleanout crack treatment	HMA Rehab 5", underdrain, drainage improvements
10	Old Orchard Trail	2,535	Asphalt	Crack sealing, slurry seal, ditch cleanout	HMA Rehab 4", underdrain, drainage improvements
11	Old Stage Road	845	Concrete	Full Depth Concrete Repairs (smaller scope)	Full Depth Concrete Repairs (expanded scope)
12	Sager Ct.	695	Asphalt	Not Recommended	HMA Rehab 5", underdrain, drainage improvements
13	Shagwood Drive	1,780	Asphalt	HMA resurfacing 2", ditch cleanout crack treatment	HMA Rehab 5", underdrain, drainage improvements
14	Timber Trail - Road	2,215	Asphalt	HMA Crush & Shape + 3" resurfacing, drainage	HMA Rehab 4", underdrain, drainage improvements
14b	Timber Trail - Path **	2,215	Asphalt	HMA Crush & Shape + 2", Ditch Cleanout	
Total:		26,985			



PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST ESTIMATE NO. 1

555 Hulet Drive
Bloomfield Hills, MI 48302
P: (248) 454-6300 - F: (248) 454-6312

PROJECT: VILLAGE OF BINGHAM FARMS ROAD IMPROVEMENTS PROGRAM
LOCATION: BINGHAM LANE
WORK: **CRACK SEALING, SURFACE SEAL, DITCH CLEANOUT**
DITCH CLEANOUT (ASSUME 20%)

DATE: November 17, 2023
PROJECT #: 20220208
ESTIMATOR: WJW
CHECKED BY: BWS
CURRENT ENR (Nov. 2023): 13511

Item	Qty	Unit	Rev	Unit Price	Rev Total
1	Mobilization	1 LS	@	\$ 17,000.00	= \$ 17,000.00
2	Color Audio-Video Route Survey	1 LS	@	\$ 3,000.00	= \$ 3,000.00
3	Crack Sealing, HMA Pavement	0.706 Mile	@	\$ 25,000.00	= \$ 17,650.00
5	HMA Surface, Rem	862 SYD	@	\$ 10.00	= \$ 8,620.00
6	HMA Surface, Rem, Driveway Approach	145 SYD	@	\$ 10.00	= \$ 1,450.00
7	Conc Pavt, Rem, Driveway Approach	20 SYD	@	\$ 30.00	= \$ 600.00
8	Stone, Rem, Driveway Approach	20 SYD	@	\$ 50.00	= \$ 1,000.00
9	Brick Paver, Rem, Driveway	20 SYD	@	\$ 70.00	= \$ 1,400.00
10	Butt Joint	765 LFT	@	\$ 10.00	= \$ 7,650.00
11	Station Grading	- STA	@	\$ 3,000.00	= \$ -
12	Subgrade Undercutting, Type II, Special (As Needed)	287 CYD	@	\$ 40.00	= \$ 11,490.00
13	Large Aperture Geogrid (As Needed)	862 SYD	@	\$ 10.00	= \$ 8,620.00
14	Aggregate Base, 21AA, Special (As Needed)	181 TON	@	\$ 40.00	= \$ 7,240.00
15	1" x 3" Crushed Concrete, Special (As Needed)	259 TON	@	\$ 25.00	= \$ 6,470.00
16	Ditch Cleanout/Reestablishment (As Needed)	7.5 STA	@	\$ 1,000.00	= \$ 7,500.00
17	Underdrain, Subgrade, Open-Graded, 6-inch, Special	- LFT	@	\$ 25.00	= \$ -
18	Underdrain, Cleanout	- EA	@	\$ 4,000.00	= \$ -
19	Aggregate Base, 21AA, Special	- TON	@	\$ 40.00	= \$ -
20	Slurry Seal	8,620 SYD	@	\$ 5.00	= \$ 43,100.00
21	HMA, 5EML	71 TON	@	\$ 195.00	= \$ 13,870.00
22	HMA, 4EML	119 TON	@	\$ 180.00	= \$ 21,330.00
23	HMA, 5EML, RCOC Approach	10 TON	@	\$ 195.00	= \$ 1,930.00
24	HMA, 4EML, RCOC Approach	35 TON	@	\$ 180.00	= \$ 6,240.00
25	HMA, 5EML, Driveway Approach	17 TON	@	\$ 195.00	= \$ 3,300.00
26	HMA, 4EML, Driveway Approach	28 TON	@	\$ 180.00	= \$ 5,070.00
27	Structure, Adjust	16 EA	@	\$ 1,000.00	= \$ 16,000.00
28	Structure, Reconstruct	8 EA	@	\$ 2,500.00	= \$ 20,000.00
29	Maintenance Gravel/Millings (As Needed)	125 TON	@	\$ 30.00	= \$ 3,750.00
30	Miscellaneous Drainage Improvements	1 LS	@	\$ 75,000.00	= \$ 75,000.00
31	Site Restoration	4,636 SYD	@	\$ 7.00	= \$ 32,450.00
32	Soil Erosion and Sedimentation Control	1 LS	@	\$ 6,000.00	= \$ 6,000.00
33	Street Sign, Artistic, Special	2 EA	@	\$ 600.00	= \$ 1,200.00
34	Maintaining Traffic	1 LS	@	\$ 15,500.00	= \$ 15,500.00
SUBTOTAL					\$ 364,400.00
Construction Contingency (25%)					\$ 91,100.00
TOTAL CONSTRUCTION					\$ 455,500.00
Engineering, Survey, Geotechnical, Permitting (25%)					\$ 113,900.00
TOTAL PROJECT					\$ 569,400.00



**PRELIMINARY OPINION OF PROBABLE
CONSTRUCTION COST
ESTIMATE NO. 1a**

555 Hulet Drive
Bloomfield Hills, MI 48302
P: (248) 454-6300 - F: (248) 454-6312

PROJECT: VILLAGE OF BINGHAM FARMS ROAD IMPROVEMENTS PROGRAM
LOCATION: BINGHAM LANE
WORK: **HMA REHAB 5", UNDERDRAIN, DRAINAGE IMPROVEMENTS**
UNDERDRAIN (100% OF THE ROAD)
DITCH CLEANOUT (ASSUME 20%)

DATE: November 17, 2023
PROJECT #: 20220208
ESTIMATOR: WJW
CHECKED BY: BWS
CURRENT ENR (Nov. 2023): 13511

Item	Qty	Unit	Rev	Unit Price	Rev Total
1	Mobilization	1 LS	@	\$ 112,000.00	= \$ 112,000.00
2	Color Audio-Video Route Survey	1 LS	@	\$ 3,000.00	= \$ 3,000.00
3	Cold Milling HMA, 4"	8,620 SYD	@	\$ 6.00	= \$ 51,720.00
4	HMA Surface, Rem, Driveway Approach	580 SYD	@	\$ 10.00	= \$ 5,800.00
5	Conc Pavt, Rem, Driveway Approach	80 SYD	@	\$ 30.00	= \$ 2,400.00
6	Stone, Rem, Driveway Approach	60 SYD	@	\$ 50.00	= \$ 3,000.00
7	Brick Paver, Rem, Driveway	40 SYD	@	\$ 70.00	= \$ 2,800.00
8	Butt Joint	765 LFT	@	\$ 10.00	= \$ 7,650.00
9	Station Grading	37.5 STA	@	\$ 3,000.00	= \$ 112,500.00
10	Subgrade Undercutting, Type II, Special (As Needed)	287 CYD	@	\$ 40.00	= \$ 11,490.00
11	Large Aperture Geogrid (As Needed)	862 SYD	@	\$ 10.00	= \$ 8,620.00
12	Aggregate Base, 21AA, Special (As Needed)	181 TON	@	\$ 40.00	= \$ 7,240.00
13	1" x 3" Crushed Concrete, Special (As Needed)	259 TON	@	\$ 25.00	= \$ 6,470.00
14	Ditch Cleanout/Reestablishment (As Needed)	7.5 STA	@	\$ 1,000.00	= \$ 7,500.00
15	Underdrain, Subgrade, Open-Graded, 6-inch, Special	7,510 LFT	@	\$ 25.00	= \$ 187,750.00
16	Underdrain, Cleanout	20 EA	@	\$ 4,000.00	= \$ 80,000.00
17	Aggregate Base, 21AA, Special	492 TON	@	\$ 30.00	= \$ 14,770.00
18	HMA, 5EML	938 TON	@	\$ 175.00	= \$ 164,200.00
19	HMA, 4EML	1,407 TON	@	\$ 160.00	= \$ 225,190.00
20	HMA, 5EML, RCOO Approach	10 TON	@	\$ 195.00	= \$ 1,930.00
21	HMA, 4EML, RCOO Approach	35 TON	@	\$ 180.00	= \$ 6,240.00
22	HMA, 5EML, Driveway Approach	84 TON	@	\$ 195.00	= \$ 16,300.00
23	HMA, 4EML, Driveway Approach	125 TON	@	\$ 180.00	= \$ 22,570.00
24	Structure, Adjust	16 EA	@	\$ 1,000.00	= \$ 16,000.00
25	Structure, Reconstruct	8 EA	@	\$ 2,500.00	= \$ 20,000.00
26	Maintenance Gravel/Millings (As Needed)	125 TON	@	\$ 30.00	= \$ 3,750.00
27	Miscellaneous Drainage Improvements	1 LS	@	\$ 75,000.00	= \$ 75,000.00
28	Site Restoration	4,636 SYD	@	\$ 7.00	= \$ 32,450.00
29	Soil Erosion and Sedimentation Control	1 LS	@	\$ 6,000.00	= \$ 6,000.00
30	Street Sign, Artistic, Special	2 EA	@	\$ 600.00	= \$ 1,200.00
31	Maintaining Traffic	1 LS	@	\$ 15,500.00	= \$ 15,500.00
SUBTOTAL					\$ 1,231,000.00
Construction Contingency (25%)					\$ 307,800.00
TOTAL CONSTRUCTION					\$ 1,538,800.00
Engineering, Survey, Geotechnical, Permitting (25%)					\$ 384,700.00
TOTAL PROJECT					\$ 1,923,500.00



PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST ESTIMATE NO. 2

555 Hulet Drive
Bloomfield Hills, MI 48302
P: (248) 454-6300 - F: (248) 454-6312

PROJECT: VILLAGE OF BINGHAM FARMS ROAD IMPROVEMENTS PROGRAM
LOCATION: BINGHAM ROAD
WORK: **HMA RESURFACING 2", DITCH CLEANOUT CRACK TREATMENT, FD REPAIRS**
DITCH CLEANOUT (ASSUME 30%)
LEAVE HMA CURB IN PLACE, GUARDRAIL IMPROVEMENTS

DATE: November 17, 2023
PROJECT #: 20220208
ESTIMATOR: WJW
CHECKED BY: BWS
CURRENT ENR (Nov. 2023): 13511

Item	Qty	Unit	Rev	Unit Price	Rev Total
1		1 LS	@	\$ 51,000.00	= \$ 51,000.00
2		1 LS	@	\$ 4,000.00	= \$ 4,000.00
3		13,200 SYD	@	\$ 4.00	= \$ 52,800.00
4		500 Ft	@	\$ 25.00	= \$ 12,500.00
5		1,980 SYD	@	\$ 10.00	= \$ 19,800.00
6		700 SYD	@	\$ 10.00	= \$ 7,000.00
7		450 LFT	@	\$ 5.00	= \$ 2,250.00
8		965 LFT	@	\$ 10.00	= \$ 9,650.00
9		- STA	@	\$ 3,000.00	= \$ -
10		659 CYD	@	\$ 40.00	= \$ 26,370.00
11		1,980 SYD	@	\$ 10.00	= \$ 19,800.00
12		416 TON	@	\$ 40.00	= \$ 16,630.00
13		594 TON	@	\$ 25.00	= \$ 14,850.00
14		32.5 STA	@	\$ 1,000.00	= \$ 32,500.00
15		- LFT	@	\$ 25.00	= \$ -
16		- EA	@	\$ 4,000.00	= \$ -
17		208 TON	@	\$ 40.00	= \$ 8,320.00
18		1,537 TON	@	\$ 180.00	= \$ 276,650.00
19		269 TON	@	\$ 180.00	= \$ 48,420.00
20		55 TON	@	\$ 195.00	= \$ 10,680.00
21		192 TON	@	\$ 180.00	= \$ 34,510.00
22		64 TON	@	\$ 195.00	= \$ 12,390.00
23		106 TON	@	\$ 180.00	= \$ 19,060.00
24		450 LFT	@	\$ 40.00	= \$ 18,000.00
25		22 EA	@	\$ 1,000.00	= \$ 22,000.00
26		11 EA	@	\$ 2,500.00	= \$ 27,500.00
27		250 TON	@	\$ 30.00	= \$ 7,500.00
28		1 LS	@	\$ 75,000.00	= \$ 75,000.00
29		1 LS	@	\$ 48,000.00	= \$ 48,000.00
30		1 LS	@	\$ 120,000.00	= \$ 120,000.00
31		1 LS	@	\$ 45,000.00	= \$ 45,000.00
32		1 LS	@	\$ 11,000.00	= \$ 11,000.00
33		5 EA	@	\$ 600.00	= \$ 3,000.00
34		1 LS	@	\$ 22,500.00	= \$ 22,500.00
SUBTOTAL - ROAD REHABILITATION					\$ 1,078,700.00
35		10 EA	@	\$ 200.00	= \$ 2,000.00
36		113 SFT	@	\$ 20.00	= \$ 2,250.00
37		160 LFT	@	\$ 10.00	= \$ 1,600.00
SUBTOTAL - SHARED ROAD ALTERNATIVE					\$ 5,900.00
Construction Contingency (25%)					\$ 271,200.00
TOTAL CONSTRUCTION					\$ 1,355,800.00
Engineering, Survey, Geotechnical, Permitting (25%)					\$ 339,000.00
TOTAL PROJECT					\$ 1,694,800.00



**PRELIMINARY OPINION OF PROBABLE
CONSTRUCTION COST
ESTIMATE NO. 2a**

555 Hulet Drive
Bloomfield Hills, MI 48302
P: (248) 454-6300 - F: (248) 454-6312

PROJECT: VILLAGE OF BINGHAM FARMS ROAD IMPROVEMENTS PROGRAM
LOCATION: BINGHAM ROAD
WORK: **HMA REHAB 6", UNDERDRAIN, DRAINAGE IMPROVEMENTS, CURB**
UNDERDRAIN (50% OF THE ROAD) AND DITCH CLEANOUT (ASSUME 30%)
BIT CURB REMOVAL AND REPLACEMENT W/ CONCRETE CURB, GUARDRAIL IMPROVEMENTS

DATE: November 17, 2023
PROJECT #: 20220208
ESTIMATOR: WJW
CHECKED BY: BWS
CURRENT ENR (Nov. 2023): 13511

Item	Qty	Unit	Rev	Unit Price	Rev Total
1	Mobilization	1 LS	@	\$ 106,000.00	= \$ 106,000.00
2	Color Audio-Video Route Survey	1 LS	@	\$ 4,000.00	= \$ 4,000.00
3	HMA Surface, Rem	13,200 SYD	@	\$ 6.00	= \$ 79,200.00
4	HMA Surface, Rem, Driveway Approach	700 SYD	@	\$ 10.00	= \$ 7,000.00
5	HMA Curb, Rem	1,800 LFT	@	\$ 5.00	= \$ 9,000.00
6	Butt Joint	965 LFT	@	\$ 10.00	= \$ 9,650.00
7	Station Grading	54 STA	@	\$ 3,000.00	= \$ 162,000.00
8	Subgrade Undercutting, Type II, Special (As Needed)	659 CYD	@	\$ 40.00	= \$ 26,370.00
9	Large Aperture Geogrid (As Needed)	1,980 SYD	@	\$ 10.00	= \$ 19,800.00
10	Aggregate Base, 21AA, Special (As Needed)	416 TON	@	\$ 40.00	= \$ 16,630.00
11	1" x 3" Crushed Concrete, Special (As Needed)	594 TON	@	\$ 25.00	= \$ 14,850.00
12	Ditch Cleanout/Reestablishment (As Needed)	32.5 STA	@	\$ 1,000.00	= \$ 32,500.00
13	Underdrain, Subgrade, Open-Graded, 6-inch, Special	10,800 LFT	@	\$ 25.00	= \$ 270,000.00
14	Underdrain, Cleanout	28 EA	@	\$ 4,000.00	= \$ 112,000.00
15	Aggregate Base, 21AA, Special	1,386 TON	@	\$ 40.00	= \$ 55,440.00
16	HMA, 5EML	1,537 TON	@	\$ 175.00	= \$ 268,960.00
17	HMA, 4EML	3,074 TON	@	\$ 160.00	= \$ 491,820.00
18	HMA, 5EML, RCOC Approach	55 TON	@	\$ 195.00	= \$ 10,680.00
19	HMA, 4EML, RCOC Approach	192 TON	@	\$ 180.00	= \$ 34,510.00
20	HMA, 5EML, Driveway Approach	64 TON	@	\$ 195.00	= \$ 12,390.00
21	HMA, 4EML, Driveway Approach	106 TON	@	\$ 180.00	= \$ 19,060.00
22	Curb and Gutter, Conc, Det F4	2,400 LFT	@	\$ 35.00	= \$ 84,000.00
23	Structure, Adjust	22 EA	@	\$ 1,000.00	= \$ 22,000.00
24	Structure, Reconstruct	11 EA	@	\$ 2,500.00	= \$ 27,500.00
25	Maintenance Gravel/Millings (As Needed)	250 TON	@	\$ 30.00	= \$ 7,500.00
26	Bridge/Culvert Repair	1 LS	@	\$ 75,000.00	= \$ 75,000.00
27	Miscellaneous Guardrail Improvements	1 LS	@	\$ 48,000.00	= \$ 48,000.00
28	Miscellaneous Drainage Improvements	1 LS	@	\$ 120,000.00	= \$ 120,000.00
29	Site Restoration	1 LS	@	\$ 45,000.00	= \$ 45,000.00
30	Soil Erosion and Sedimentation Control	1 LS	@	\$ 11,000.00	= \$ 11,000.00
31	Street Sign, Artistic, Special	EA	@	\$ 600.00	= \$ -
32	Maintaining Traffic	1 LS	@	\$ 22,500.00	= \$ 22,500.00
SUBTOTAL - ROAD REHABILITATION					\$ 2,224,400.00
33	Sharrow Symbol	10 EA	@	\$ 200.00	= \$ 2,000.00
34	Share The Road & Bike Sign	113 SFT	@	\$ 20.00	= \$ 2,250.00
35	Sign Post, 3 lb.	160 LFT	@	\$ 10.00	= \$ 1,600.00
SUBTOTAL - SHARED ROAD ALTERNATIVE					\$ 5,900.00
Construction Contingency (25%)					\$ 557,600.00
TOTAL CONSTRUCTION					\$ 2,787,900.00
Engineering, Survey, Geotechnical, Permitting (25%)					\$ 697,000.00
TOTAL PROJECT					\$ 3,484,900.00



**PRELIMINARY OPINION OF PROBABLE
CONSTRUCTION COST
ESTIMATE NO. 3**

555 Hulet Drive
Bloomfield Hills, MI 48302
P: (248) 454-6300 - F: (248) 454-6312

PROJECT: VILLAGE OF BINGHAM FARMS ROAD IMPROVEMENTS PROGRAM
LOCATION: BRISTOL LANE
WORK: **HMA REHAB 5", UNDERDRAIN, DRAINAGE IMPROVEMENTS**
UNDERDRAIN (ASSUME 50% OF THE ROAD) AND DITCH CLEANOUT (ASSUME 30%)
BIT CURB REMOVAL AND REPLACEMENT W/ CONCRETE CURB, GUARDRAIL IMPROVEMENTS

DATE: November 17, 2023
PROJECT #: 20190463
ESTIMATOR: WJW
CHECKED BY: BWS
CURRENT ENR (Nov. 2023): 13511

Item	Qty	Unit	Rev	Unit Price	Rev Total
1	Mobilization	1 LS	@	\$ 80,000.00	= \$ 80,000.00
2	Color Audio-Video Route Survey	1 LS	@	\$ 5,500.00	= \$ 5,500.00
3	HMA Surface, Rem	10,200 SYD	@	\$ 6.00	= \$ 61,200.00
5	HMA Surface, Rem, Driveway Approach	700 SYD	@	\$ 10.00	= \$ 7,000.00
6	Butt Joint	1,275 LFT	@	\$ 10.00	= \$ 12,750.00
7	Station Grading	41 STA	@	\$ 3,000.00	= \$ 123,000.00
8	Subgrade Undercutting, Type II, Special (As Needed)	510 CYD	@	\$ 40.00	= \$ 20,400.00
9	Large Aperture Geogrid (As Needed)	1,530 SYD	@	\$ 10.00	= \$ 15,300.00
10	Aggregate Base, 21AA, Special (As Needed)	321 TON	@	\$ 40.00	= \$ 12,850.00
11	1" x 3" Crushed Concrete, Special (As Needed)	459 TON	@	\$ 25.00	= \$ 11,480.00
12	Ditch Cleanout/Reestablishment (As Needed)	20 STA	@	\$ 1,000.00	= \$ 20,000.00
13	Underdrain, Subgrade, Open-Graded, 6-inch, Special	12,500 LFT	@	\$ 25.00	= \$ 312,500.00
14	Underdrain, Cleanout	26 EA	@	\$ 4,000.00	= \$ 104,000.00
15	Aggregate Base, 21AA, Special	1,071 TON	@	\$ 40.00	= \$ 42,840.00
16	HMA, 5EML	1,221 TON	@	\$ 175.00	= \$ 213,760.00
18	HMA, 5EML, RCOC Approach	12 TON	@	\$ 195.00	= \$ 2,250.00
19	HMA, 5EML, Driveway Approach	64 TON	@	\$ 195.00	= \$ 12,390.00
20	HMA, 4EML	1,832 TON	@	\$ 160.00	= \$ 293,160.00
22	HMA, 4EML, RCOC Approach	40 TON	@	\$ 180.00	= \$ 7,280.00
23	HMA, 4EML, Driveway Approach	106 TON	@	\$ 180.00	= \$ 19,060.00
24	Structure, Adjust	14 EA	@	\$ 1,000.00	= \$ 14,000.00
25	Structure, Reconstruct	7 EA	@	\$ 2,500.00	= \$ 17,500.00
26	Maintenance Gravel/Millings (As Needed)	250 TON	@	\$ 30.00	= \$ 7,500.00
27	Miscellaneous Drainage Improvements	1 LS	@	\$ 175,000.00	= \$ 175,000.00
28	Site Restoration	1 LS	@	\$ 60,000.00	= \$ 60,000.00
29	Soil Erosion and Sedimentation Control	1 LS	@	\$ 6,000.00	= \$ 6,000.00
30	Street Sign, Artistic, Special	1 EA	@	\$ 600.00	= \$ 600.00
31	Maintaining Traffic	1 LS	@	\$ 28,000.00	= \$ 28,000.00
SUBTOTAL - ROAD REHABILITATION					\$ 1,685,300.00
32	Sharrow Symbol	8 EA	@	\$ 200.00	= \$ 1,600.00
33	Share The Road & Bike Sign	90 SFT	@	\$ 20.00	= \$ 1,800.00
34	Sign Post, 3 lb.	128 LFT	@	\$ 10.00	= \$ 1,280.00
SUBTOTAL - SHARED ROAD ALTERNATIVE					\$ 4,700.00
Construction Contingency (25%)					\$ 422,500.00
TOTAL CONSTRUCTION					\$ 2,112,500.00
Engineering, Survey, Geotechnical, Permitting (25%)					\$ 528,100.00
TOTAL PROJECT					\$ 2,640,600.00



**PRELIMINARY OPINION OF PROBABLE
CONSTRUCTION COST
ESTIMATE NO. 4**

555 Hulet Drive
Bloomfield Hills, MI 48302
P: (248) 454-6300 - F: (248) 454-6312

PROJECT: VILLAGE OF BINGHAM FARMS ROAD IMPROVEMENTS PROGRAM
LOCATION: BRISTOL CT
WORK: **HMA REHAB 5", UNDERDRAIN, DRAINAGE IMPROVEMENTS**
100% UNDERDRAIN
DITCH CLEANOUT (ASSUME 50%)

DATE: November 17, 2023
PROJECT #: 20220208
ESTIMATOR: WJW
CHECKED BY: BWS
CURRENT ENR (Nov. 2023): 13511

Item	Qty	Unit	Rev	Unit Price	Rev Total
1	Mobilization	1 LS	@	\$ 27,000.00	= \$ 27,000.00
2	Color Audio-Video Route Survey	1 LS	@	\$ 2,000.00	= \$ 2,000.00
3	Cold Milling HMA, 4"	3,535 SYD	@	\$ 6.00	= \$ 21,210.00
4	HMA Surface, Rem	707 SYD	@	\$ 10.00	= \$ 7,070.00
5	HMA Surface, Rem, Driveway Approach	120 SYD	@	\$ 10.00	= \$ 1,200.00
6	Conc Pavt, Rem, Driveway Approach	80 SYD	@	\$ 30.00	= \$ 2,400.00
7	Butt Joint	- LFT	@	\$ 10.00	= \$ -
8	Station Grading	16 STA	@	\$ 3,000.00	= \$ 48,000.00
9	Subgrade Undercutting, Type II, Special (As Needed)	90 CYD	@	\$ 40.00	= \$ 3,600.00
10	Large Aperture Geogrid (As Needed)	406 SYD	@	\$ 10.00	= \$ 4,060.00
11	Aggregate Base, 21AA, Special (As Needed)	98 TON	@	\$ 40.00	= \$ 3,920.00
12	1" x 3" Crushed Concrete, Special (As Needed)	140 TON	@	\$ 25.00	= \$ 3,500.00
13	Ditch Cleanout/Reestablishment (As Needed)	17 STA	@	\$ 1,000.00	= \$ 17,000.00
14	Underdrain, Subgrade, Open-Graded, 6-inch, Special	3,450 LFT	@	\$ 25.00	= \$ 86,250.00
15	Underdrain, Cleanout	14 EA	@	\$ 4,000.00	= \$ 56,000.00
16	Aggregate Base, 21AA, Special	371 TON	@	\$ 40.00	= \$ 14,850.00
17	HMA, 5EML	389 TON	@	\$ 175.00	= \$ 68,050.00
18	HMA, 4EML	583 TON	@	\$ 160.00	= \$ 93,320.00
19	HMA, 5EML, Driveway Approach	17 TON	@	\$ 195.00	= \$ 3,220.00
20	HMA, 4EML, Driveway Approach	28 TON	@	\$ 180.00	= \$ 4,950.00
21	Structure, Adjust	2 EA	@	\$ 1,000.00	= \$ 2,000.00
22	Structure, Reconstruct	3 EA	@	\$ 2,500.00	= \$ 7,500.00
23	Maintenance Gravel/Millings (As Needed)	58 TON	@	\$ 30.00	= \$ 1,740.00
24	Miscellaneous Drainage Improvements	1 LS	@	\$ 50,000.00	= \$ 50,000.00
25	Site Restoration	1 LS	@	\$ 20,000.00	= \$ 20,000.00
26	Soil Erosion and Sedimentation Control	1 LS	@	\$ 5,000.00	= \$ 5,000.00
27	Street Sign, Artistic, Special	1 EA	@	\$ 600.00	= \$ 600.00
28	Maintaining Traffic	1 LS	@	\$ 15,000.00	= \$ 15,000.00
SUBTOTAL					\$ 569,400.00
Construction Contingency (25%)					\$ 142,400.00
TOTAL CONSTRUCTION					\$ 711,800.00
Engineering, Survey, Geotechnical, Permitting (25%)					\$ 178,000.00
TOTAL PROJECT					\$ 889,800.00



**PRELIMINARY OPINION OF PROBABLE
CONSTRUCTION COST
ESTIMATE NO. 5**

555 Hulet Drive
Bloomfield Hills, MI 48302
P: (248) 454-6300 - F: (248) 454-6312

PROJECT: VILLAGE OF BINGHAM FARMS ROAD IMPROVEMENTS PROGRAM
LOCATION: BRITNER CT.
WORK: **HMA REHAB 5", UNDERDRAIN, DRAINAGE IMPROVEMENTS**
100% UNDERDRAIN
DITCH CLEANOUT (ASSUME 75%)

DATE: November 17, 2023
PROJECT #: 20220208
ESTIMATOR: WJW
CHECKED BY: BWS
CURRENT ENR (Nov. 2023): 13511

Item	Qty	Unit	Rev	Unit Price	Rev Total
1	Mobilization	1 LS	@ \$	13,000.00 = \$	13,000.00
2	Color Audio-Video Route Survey	1 LS	@ \$	2,000.00 = \$	2,000.00
3	Cold Milling HMA, 4"	1,640 SYD	@ \$	6.00 = \$	9,840.00
3	HMA Surface, Rem	246 SYD	@ \$	10.00 = \$	2,460.00
4	HMA Surface, Rem, Driveway Approach	140 SYD	@ \$	10.00 = \$	1,400.00
5	Conc Pavt, Rem, Driveway Approach	60 SYD	@ \$	30.00 = \$	1,800.00
6	Butt Joint	- LFT	@ \$	10.00 = \$	-
7	Station Grading	7 STA	@ \$	3,000.00 = \$	21,000.00
8	Subgrade Undercutting, Type II, Special (As Needed)	27 CYD	@ \$	40.00 = \$	1,090.00
9	Large Aperture Geogrid (As Needed)	164 SYD	@ \$	10.00 = \$	1,640.00
10	Aggregate Base, 21AA, Special (As Needed)	34 TON	@ \$	40.00 = \$	1,380.00
11	1" x 3" Crushed Concrete, Special (As Needed)	49 TON	@ \$	25.00 = \$	1,230.00
12	Ditch Cleanout/Reestablishment (As Needed)	7.65 STA	@ \$	1,000.00 = \$	7,650.00
13	Underdrain, Subgrade, Open-Graded, 6-inch, Special	1,330 LFT	@ \$	25.00 = \$	33,250.00
14	Underdrain, Cleanout	6 EA	@ \$	4,000.00 = \$	24,000.00
15	Aggregate Base, 21AA, Special	172 TON	@ \$	40.00 = \$	6,890.00
16	HMA, 5EML	180 TON	@ \$	175.00 = \$	31,570.00
17	HMA, 4EML	271 TON	@ \$	160.00 = \$	43,300.00
18	HMA, 5EML, Driveway Approach	17 TON	@ \$	195.00 = \$	3,220.00
19	HMA, 4EML, Driveway Approach	28 TON	@ \$	180.00 = \$	4,950.00
20	Structure, Adjust	2 EA	@ \$	1,000.00 = \$	2,000.00
21	Structure, Reconstruct	1 EA	@ \$	2,500.00 = \$	2,500.00
22	Maintenance Gravel/Millings (As Needed)	50 TON	@ \$	30.00 = \$	1,500.00
23	Miscellaneous Drainage Improvements	1 LS	@ \$	35,000.00 = \$	35,000.00
24	Site Restoration	1 LS	@ \$	10,000.00 = \$	10,000.00
25	Soil Erosion and Sedimentation Control	1 LS	@ \$	2,500.00 = \$	2,500.00
26	Street Sign, Artistic, Special	1 EA	@ \$	600.00 = \$	600.00
27	Maintaining Traffic	1 LS	@ \$	6,000.00 = \$	6,000.00
SUBTOTAL					\$ 271,800.00
Construction Contingency (25%)					\$ 68,000.00
TOTAL CONSTRUCTION					\$ 339,800.00
Engineering, Survey, Geotechnical, Permitting (25%)					\$ 85,000.00
TOTAL PROJECT					\$ 424,800.00



**PRELIMINARY OPINION OF PROBABLE
CONSTRUCTION COST
ESTIMATE NO. 6**

555 Hulet Drive
Bloomfield Hills, MI 48302
P: (248) 454-6300 - F: (248) 454-6312

PROJECT: VILLAGE OF BINGHAM FARMS ROAD IMPROVEMENTS PROGRAM
LOCATION: BROOKS LANE
WORK: **CRACK SEALING, SLURRY SEAL, DITCH CLEANOUT**
LIMITED FULL DEPTH REPAIRS, DITCH & DRAINAGE IMPROVEMENTS

DATE: November 17, 2023
PROJECT #: 20220208
ESTIMATOR: WJW
CHECKED BY: BWS
CURRENT ENR (Nov. 2023): 13511

Item	Qty	Unit	Rev	Unit Price	Rev Total
1	Mobilization	1 LS	@	\$ 3,000.00 =	\$ 3,000.00
2	Color Audio-Video Route Survey	1 LS	@	\$ 2,000.00 =	\$ 2,000.00
3	Crack Sealing, HMA Pavement	0.125 Mile	@	\$ 25,000.00 =	\$ 3,130.00
4	HMA Surface, Rem	26 SYD	@	\$ 10.00 =	\$ 260.00
5	HMA Surface, Rem, Driveway Approach	- SYD	@	\$ 20.00 =	\$ -
6	Conc Pavt, Rem, Driveway Approach	- SYD	@	\$ 20.00 =	\$ -
7	Stone, Rem, Driveway Approach	- SYD	@	\$ 20.00 =	\$ -
8	Butt Joint	- LFT	@	\$ 10.00 =	\$ -
9	Station Grading	- STA	@	\$ 3,000.00 =	\$ -
10	Subgrade Undercutting, Type II, Special (As Needed)	9 CYD	@	\$ 40.00 =	\$ 350.00
11	Large Aperture Geogrid (As Needed)	26 SYD	@	\$ 10.00 =	\$ 260.00
12	Aggregate Base, 21AA, Special (As Needed)	5 TON	@	\$ 40.00 =	\$ 220.00
13	1" x 3" Crushed Concrete, Special (As Needed)	8 TON	@	\$ 25.00 =	\$ 200.00
14	Ditch Cleanout/Reestablishment (As Needed)	1 STA	@	\$ 1,000.00 =	\$ 1,000.00
15	Slurry Seal	1,045 SYD	@	\$ 5.00 =	\$ 5,230.00
16	Underdrain, Subgrade, Open-Graded, 6-inch, Special	- LFT	@	\$ 25.00 =	\$ -
17	Underdrain, Cleanout	- EA	@	\$ 4,000.00 =	\$ -
18	Aggregate Base, 21AA, Special	3 TON	@	\$ 40.00 =	\$ 110.00
19	HMA, 5EML	2.2 TON	@	\$ 195.00 =	\$ 420.00
20	HMA, 4EML	3.6 TON	@	\$ 180.00 =	\$ 650.00
21	HMA, 5EML, Driveway Approach	- TON	@	\$ 195.00 =	\$ -
22	HMA, 4EML, Driveway Approach	- TON	@	\$ 180.00 =	\$ -
23	Structure, Adjust	3 EA	@	\$ 1,000.00 =	\$ 3,000.00
24	Structure, Reconstruct	1 EA	@	\$ 2,500.00 =	\$ 2,500.00
25	Maintenance Gravel/Millings (As Needed)	25 TON	@	\$ 30.00 =	\$ 750.00
26	Miscellaneous Drainage Improvements	1 LS	@	\$ 25,000.00 =	\$ 25,000.00
27	Site Restoration	1,742 SYD	@	\$ 7.00 =	\$ 12,200.00
28	Soil Erosion and Sedimentation Control	1 LS	@	\$ 4,000.00 =	\$ 4,000.00
29	Street Sign, Artistic, Special	1 EA	@	\$ 600.00 =	\$ 600.00
30	Maintaining Traffic	1 LS	@	\$ 7,500.00 =	\$ 7,500.00
SUBTOTAL					\$ 72,400.00
Construction Contingency (25%)					\$ 18,100.00
TOTAL CONSTRUCTION					\$ 90,500.00
Engineering, Survey, Geotechnical, Permitting (25%)					\$ 22,600.00
TOTAL PROJECT					\$ 113,100.00



**PRELIMINARY OPINION OF PROBABLE
CONSTRUCTION COST
ESTIMATE NO. 6a**

555 Hulet Drive
Bloomfield Hills, MI 48302
P: (248) 454-6300 - F: (248) 454-6312

PROJECT: VILLAGE OF BINGHAM FARMS ROAD IMPROVEMENTS PROGRAM
LOCATION: BROOKS LANE
WORK: **HMA REHAB 4", UNDERDRAIN, DRAINAGE IMPROVEMENTS**
UNDERDRAIN (100% OF THE ROAD)
DITCH CLEANOUT (ASSUME 15%)

DATE: November 17, 2023
PROJECT #: 20220208
ESTIMATOR: WJW
CHECKED BY: BWS
CURRENT ENR (Nov. 2023): 13511

Item	Qty	Unit	Rev	Unit Price	Rev Total
1	Mobilization	1 LS	@	\$ 10,000.00	= \$ 10,000.00
2	Color Audio-Video Route Survey	1 LS	@	\$ 2,000.00	= \$ 2,000.00
3	Crack Sealing, HMA Pavement	0.000 Mile	@	\$ 25,000.00	= \$ -
4	Cold Milling HMA, 3"	1,045 SYD	@	\$ 6.00	= \$ 6,270.00
5	HMA Surface, Rem	105 SYD	@	\$ 10.00	= \$ 1,050.00
6	HMA Surface, Rem, Driveway Approach	220 SYD	@	\$ 10.00	= \$ 2,200.00
7	Conc Pavt, Rem, Driveway Approach	60 SYD	@	\$ 30.00	= \$ 1,800.00
8	Stone, Rem, Driveway Approach	40 SYD	@	\$ 50.00	= \$ 2,000.00
9	Butt Joint	300 LFT	@	\$ 10.00	= \$ 3,000.00
10	Station Grading	6.6 STA	@	\$ 3,000.00	= \$ 19,800.00
11	Subgrade Undercutting, Type II, Special (As Needed)	35 CYD	@	\$ 40.00	= \$ 1,390.00
12	Large Aperture Geogrid (As Needed)	105 SYD	@	\$ 10.00	= \$ 1,050.00
13	Aggregate Base, 21AA, Special (As Needed)	22 TON	@	\$ 40.00	= \$ 880.00
14	1" x 3" Crushed Concrete, Special (As Needed)	31 TON	@	\$ 25.00	= \$ 780.00
15	Ditch Cleanout/Reestablishment (As Needed)	1 STA	@	\$ 1,000.00	= \$ 1,000.00
16	Slurry Seal	0 SYD	@	\$ 5.00	= \$ -
17	Underdrain, Subgrade, Open-Graded, 6-inch, Special	1,070 LFT	@	\$ 25.00	= \$ 26,750.00
18	Underdrain, Cleanout	5 EA	@	\$ 4,000.00	= \$ 20,000.00
19	Aggregate Base, 21AA, Special	11 TON	@	\$ 40.00	= \$ 440.00
20	HMA, 5EML	88 TON	@	\$ 175.00	= \$ 15,430.00
21	HMA, 4EML	147 TON	@	\$ 160.00	= \$ 23,510.00
22	HMA, 5EML, Driveway Approach	26 TON	@	\$ 195.00	= \$ 5,150.00
23	HMA, 4EML, Driveway Approach	44 TON	@	\$ 180.00	= \$ 7,920.00
24	Structure, Adjust	3 EA	@	\$ 1,000.00	= \$ 3,000.00
25	Structure, Reconstruct	2 EA	@	\$ 2,500.00	= \$ 5,000.00
26	Maintenance Gravel/Millings (As Needed)	25 TON	@	\$ 30.00	= \$ 750.00
27	Miscellaneous Drainage Improvements	1 LS	@	\$ 25,000.00	= \$ 25,000.00
28	Site Restoration	1,742 SYD	@	\$ 7.00	= \$ 12,200.00
29	Soil Erosion and Sedimentation Control	1 LS	@	\$ 4,000.00	= \$ 4,000.00
30	Street Sign, Artistic, Special	1 EA	@	\$ 600.00	= \$ 600.00
31	Maintaining Traffic	1 LS	@	\$ 7,500.00	= \$ 7,500.00
SUBTOTAL					\$ 210,500.00
Construction Contingency (25%)					\$ 52,600.00
TOTAL CONSTRUCTION					\$ 263,100.00
Engineering, Survey, Geotechnical, Permitting (25%)					\$ 65,800.00
TOTAL PROJECT					\$ 328,900.00



**PRELIMINARY OPINION OF PROBABLE
CONSTRUCTION COST
ESTIMATE NO. 7**

555 Hulet Drive
Bloomfield Hills, MI 48302
P: (248) 454-6300 - F: (248) 454-6312

PROJECT: VILLAGE OF BINGHAM FARMS ROAD IMPROVEMENTS PROGRAM
LOCATION: COACHLIGHT LANE
WORK: **FULL DEPTH CONCRETE REPAIRS (SMALLER SCOPE)**
AS-NEEDED CURB AND GUTTER

DATE: November 17, 2023
PROJECT #: 20220208
ESTIMATOR: WJW
CHECKED BY: BWS
CURRENT ENR (Nov. 2023): 13511

Item	Qty	Unit	Rev	Unit Price	Rev Total
1	Mobilization	1 LS	@	\$ 5,000.00	= \$ 5,000.00
2	Color Audio-Video Route Survey	1 LS	@	\$ 2,500.00	= \$ 2,500.00
3	Concrete Pavt, Rem	328 SYD	@	\$ 30.00	= \$ 9,830.00
4	Concrete Pavt, Rem, Driveway Approach	40 SYD	@	\$ 30.00	= \$ 1,200.00
5	Curb and Gutter, Rem	246 LFT	@	\$ 9.00	= \$ 2,210.00
6	Station Grading	7 STA	@	\$ 1,500.00	= \$ 10,580.00
7	Subgrade Undercutting, Type II, Special (As Needed)	123 CYD	@	\$ 40.00	= \$ 4,900.00
8	Large Aperture Geogrid (As Needed)	368 SYD	@	\$ 10.00	= \$ 3,680.00
9	Aggregate Base, 21AA, Special (As Needed)	77 TON	@	\$ 40.00	= \$ 3,090.00
10	1" x 3" Crushed Concrete, Special (As Needed)	110 TON	@	\$ 25.00	= \$ 2,760.00
11	Underdrain, Subgrade, Open-Graded, 6-inch, Special	- LFT	@	\$ 25.00	= \$ -
12	Underdrain, Cleanout	- EA	@	\$ 4,000.00	= \$ -
13	Aggregate Base, 21AA, Special	34 TON	@	\$ 40.00	= \$ 1,380.00
14	Driveway, Nonreinforced Conc, 6 inch	40 SYD	@	\$ 60.00	= \$ 2,400.00
15	Conc Pavt, 8 inch	328 SYD	@	\$ 75.00	= \$ 24,580.00
16	Curb and Gutter, Conc, Det D3	246 LFT	@	\$ 40.00	= \$ 9,830.00
17	Structure, Adjust	2 EA	@	\$ 1,000.00	= \$ 2,000.00
18	Structure, Reconstruct	1 EA	@	\$ 2,500.00	= \$ 2,500.00
19	Maintenance Gravel/Millings (As Needed)	50 TON	@	\$ 30.00	= \$ 1,500.00
20	Site Restoration	235 SYD	@	\$ 7.00	= \$ 1,650.00
21	Soil Erosion and Sedimentation Control	1 LS	@	\$ 2,500.00	= \$ 2,500.00
22	Street Sign, Artistic, Special	1 EA	@	\$ 600.00	= \$ 600.00
23	Maintaining Traffic	1 LS	@	\$ 10,000.00	= \$ 10,000.00
SUBTOTAL					\$ 104,700.00
Construction Contingency (25%)					\$ 26,200.00
TOTAL CONSTRUCTION					\$ 130,900.00
Engineering, Survey, Geotechnical, Permitting (25%)					\$ 32,700.00
TOTAL PROJECT					\$ 163,600.00



**PRELIMINARY OPINION OF PROBABLE
CONSTRUCTION COST
ESTIMATE NO. 7a**

555 Hulet Drive
Bloomfield Hills, MI 48302
P: (248) 454-6300 - F: (248) 454-6312

PROJECT: VILLAGE OF BINGHAM FARMS ROAD IMPROVEMENTS PROGRAM
LOCATION: COACHLIGHT LANE
WORK: **FULL DEPTH CONCRETE REPAIRS (EXPANDED SCOPE)**
AS-NEEDED CURB AND GUTTER

DATE: November 17, 2023
PROJECT #: 20220208
ESTIMATOR: WJW
CHECKED BY: BWS
CURRENT ENR (Nov. 2023): 13511

Item	Qty	Unit	Rev	Unit Price	Rev Total
1	Mobilization	1 LS	@	\$ 9,000.00	= \$ 9,000.00
2	Color Audio-Video Route Survey	1 LS	@	\$ 2,500.00	= \$ 2,500.00
3	Concrete Pavt, Rem	656 SYD	@	\$ 30.00	= \$ 19,670.00
4	Concrete Pavt, Rem, Driveway Approach	100 SYD	@	\$ 30.00	= \$ 3,000.00
5	Curb and Gutter, Rem	492 LFT	@	\$ 9.00	= \$ 4,420.00
6	Station Grading	7 STA	@	\$ 1,500.00	= \$ 10,580.00
7	Subgrade Undercutting, Type II, Special (As Needed)	252 CYD	@	\$ 40.00	= \$ 10,070.00
8	Large Aperture Geogrid (As Needed)	756 SYD	@	\$ 10.00	= \$ 7,560.00
9	Aggregate Base, 21AA, Special (As Needed)	158 TON	@	\$ 40.00	= \$ 6,340.00
10	1" x 3" Crushed Concrete, Special (As Needed)	227 TON	@	\$ 25.00	= \$ 5,670.00
11	Underdrain, Subgrade, Open-Graded, 6-inch, Special	- LFT	@	\$ 25.00	= \$ -
12	Underdrain, Cleanout	- EA	@	\$ 4,000.00	= \$ -
13	Aggregate Base, 21AA, Special	69 TON	@	\$ 40.00	= \$ 2,750.00
14	Driveway, Nonreinforced Conc, 6 inch	100 SYD	@	\$ 60.00	= \$ 6,000.00
15	Conc Pavt, 8 inch	656 SYD	@	\$ 75.00	= \$ 49,160.00
16	Curb and Gutter, Conc, Det D3	492 LFT	@	\$ 40.00	= \$ 19,670.00
17	Structure, Adjust	2 EA	@	\$ 1,000.00	= \$ 2,000.00
18	Structure, Reconstruct	1 EA	@	\$ 2,500.00	= \$ 2,500.00
19	Maintenance Gravel/Millings (As Needed)	50 TON	@	\$ 30.00	= \$ 1,500.00
20	Site Restoration	196 SYD	@	\$ 7.00	= \$ 1,370.00
21	Soil Erosion and Sedimentation Control	1 LS	@	\$ 2,500.00	= \$ 2,500.00
22	Street Sign, Artistic, Special	1 EA	@	\$ 600.00	= \$ 600.00
23	Maintaining Traffic	1 LS	@	\$ 25,000.00	= \$ 25,000.00
SUBTOTAL					\$ 191,900.00
Construction Contingency (25%)					\$ 48,000.00
TOTAL CONSTRUCTION					\$ 239,900.00
Engineering, Survey, Geotechnical, Permitting (25%)					\$ 60,000.00
TOTAL PROJECT					\$ 299,900.00



**PRELIMINARY OPINION OF PROBABLE
CONSTRUCTION COST
ESTIMATE NO. 8**

555 Hulet Drive
Bloomfield Hills, MI 48302
P: (248) 454-6300 - F: (248) 454-6312

PROJECT: VILLAGE OF BINGHAM FARMS ROAD IMPROVEMENTS PROGRAM
LOCATION: FROMM CT.
WORK: **CRACK SEALING, CAPE SEAL, DRAINAGE IMPROVEMENTS**
DITCH CLEANOUT (ASSUME 15%)

DATE: November 17, 2023
PROJECT #: 20220208
ESTIMATOR: WJW
CHECKED BY: BWS
CURRENT ENR (Nov. 2023): 13511

Item	Qty	Unit	Rev	Unit Price	Rev Total
1	Mobilization	1 LS	@	\$ 8,000.00	= \$ 8,000.00
2	Color Audio-Video Route Survey	1 LS	@	\$ 2,500.00	= \$ 2,500.00
3	Crack Sealing, HMA Pavement	0.419 Mile	@	\$ 25,000.00	= \$ 10,480.00
4	HMA Surface, Rem	311 SYD	@	\$ 10.00	= \$ 3,110.00
5	HMA Surface, Rem, Driveway Approach	80 SYD	@	\$ 10.00	= \$ 800.00
6	Conc Pavt, Rem, Driveway Approach	40 SYD	@	\$ 30.00	= \$ 1,200.00
7	Butt Joint	190 LFT	@	\$ 10.00	= \$ 1,900.00
8	Station Grading	- STA	@	\$ 3,000.00	= \$ -
9	Subgrade Undercutting, Type II, Special (As Needed)	104 CYD	@	\$ 40.00	= \$ 4,140.00
10	Large Aperture Geogrid (As Needed)	311 SYD	@	\$ 10.00	= \$ 3,110.00
11	Aggregate Base, 21AA, Special (As Needed)	65 TON	@	\$ 40.00	= \$ 2,610.00
12	1" x 3" Crushed Concrete, Special (As Needed)	93 TON	@	\$ 25.00	= \$ 2,330.00
13	Ditch Cleanout/Reestablishment (As Needed)	2 STA	@	\$ 1,000.00	= \$ 2,000.00
14	Cape Seal Surface	3,110 SYD	@	\$ 6.00	= \$ 18,660.00
14	Underdrain, Subgrade, Open-Graded, 6-inch, Special	- LFT	@	\$ 25.00	= \$ -
15	Underdrain, Cleanout	- EA	@	\$ 4,000.00	= \$ -
16	Aggregate Base, 21AA, Special	65 TON	@	\$ 40.00	= \$ 2,610.00
17	HMA, 5EML	18 TON	@	\$ 195.00	= \$ 3,560.00
18	HMA, 4EML	30 TON	@	\$ 180.00	= \$ 5,470.00
19	HMA, 5EML, RCOC Approach	10 TON	@	\$ 195.00	= \$ 1,930.00
20	HMA, 4EML, RCOC Approach	35 TON	@	\$ 180.00	= \$ 6,240.00
21	HMA, 5EML, Driveway Approach	10 TON	@	\$ 195.00	= \$ 1,930.00
22	HMA, 4EML, Driveway Approach	17 TON	@	\$ 180.00	= \$ 2,970.00
23	Structure, Adjust	6 EA	@	\$ 1,000.00	= \$ 6,000.00
24	Structure, Reconstruct	3 EA	@	\$ 2,500.00	= \$ 7,500.00
25	Maintenance Gravel/Millings (As Needed)	50 TON	@	\$ 30.00	= \$ 1,500.00
26	Miscellaneous Drainage Improvements	1 LS	@	\$ 25,000.00	= \$ 25,000.00
27	Site Restoration	3,609 SYD	@	\$ 7.00	= \$ 25,260.00
28	Soil Erosion and Sedimentation Control	1 LS	@	\$ 2,500.00	= \$ 2,500.00
29	Street Sign, Artistic, Special	1 EA	@	\$ 600.00	= \$ 600.00
30	Maintaining Traffic	1 LS	@	\$ 7,500.00	= \$ 7,500.00
SUBTOTAL					\$ 161,400.00
Construction Contingency (25%)					\$ 40,400.00
TOTAL CONSTRUCTION					\$ 201,800.00
Engineering, Survey, Geotechnical, Permitting (25%)					\$ 50,500.00
TOTAL PROJECT					\$ 252,300.00



**PRELIMINARY OPINION OF PROBABLE
CONSTRUCTION COST
ESTIMATE NO. 8a**

555 Hulet Drive
Bloomfield Hills, MI 48302
P: (248) 454-6300 - F: (248) 454-6312

PROJECT: VILLAGE OF BINGHAM FARMS ROAD IMPROVEMENTS PROGRAM
LOCATION: FROMM CT.
WORK: **HMA REHAB 4", UNDERDRAIN, DRAINAGE IMPROVEMENTS**
UNDERDRAIN (100% OF THE ROAD)
DITCH CLEANOUT (ASSUME 15%)

DATE: November 17, 2023
PROJECT #: 20220208
ESTIMATOR: WJW
CHECKED BY: BWS
CURRENT ENR (Nov. 2023): 13511

Item	Qty	Unit	Rev	Unit Price	Rev Total
1	Mobilization	1 LS	@	\$ 19,000.00	= \$ 19,000.00
2	Color Audio-Video Route Survey	1 LS	@	\$ 2,000.00	= \$ 2,000.00
3	Cold Milling HMA, 4"	3,110 SYD	@	\$ 6.00	= \$ 18,660.00
4	HMA Surface, Rem	311 SYD	@	\$ 10.00	= \$ 3,110.00
5	HMA Surface, Rem, Driveway Approach	320 SYD	@	\$ 10.00	= \$ 3,200.00
6	Conc Pavt, Rem, Driveway Approach	80 SYD	@	\$ 30.00	= \$ 2,400.00
7	Butt Joint	470 LFT	@	\$ 10.00	= \$ 4,700.00
8	Station Grading	13.6 STA	@	\$ 3,000.00	= \$ 40,800.00
9	Subgrade Undercutting, Type II, Special (As Needed)	104 CYD	@	\$ 40.00	= \$ 4,140.00
10	Large Aperture Geogrid (As Needed)	311 SYD	@	\$ 10.00	= \$ 3,110.00
11	Aggregate Base, 21AA, Special (As Needed)	65 TON	@	\$ 40.00	= \$ 2,610.00
12	1" x 3" Crushed Concrete, Special (As Needed)	93 TON	@	\$ 25.00	= \$ 2,330.00
13	Ditch Cleanout/Reestablishment (As Needed)	2 STA	@	\$ 1,000.00	= \$ 2,000.00
14	Underdrain, Subgrade, Open-Graded, 6-inch, Special	2,450 LFT	@	\$ 25.00	= \$ 61,250.00
15	Underdrain, Cleanout	6 EA	@	\$ 4,000.00	= \$ 24,000.00
16	Aggregate Base, 21AA, Special	33 TON	@	\$ 40.00	= \$ 1,310.00
17	HMA, 5EML	249 TON	@	\$ 175.00	= \$ 43,600.00
18	HMA, 4EML	415 TON	@	\$ 160.00	= \$ 66,440.00
19	HMA, 5EML, RCOC Approach	10 TON	@	\$ 195.00	= \$ 1,930.00
20	HMA, 4EML, RCOC Approach	35 TON	@	\$ 180.00	= \$ 6,240.00
21	HMA, 5EML, Driveway Approach	33 TON	@	\$ 195.00	= \$ 6,440.00
22	HMA, 4EML, Driveway Approach	55 TON	@	\$ 180.00	= \$ 9,900.00
23	Structure, Adjust	6 EA	@	\$ 1,000.00	= \$ 6,000.00
24	Structure, Reconstruct	3 EA	@	\$ 2,500.00	= \$ 7,500.00
25	Maintenance Gravel/Millings (As Needed)	50 TON	@	\$ 30.00	= \$ 1,500.00
26	Miscellaneous Drainage Improvements	1 LS	@	\$ 25,000.00	= \$ 25,000.00
27	Site Restoration	3,609 SYD	@	\$ 7.00	= \$ 25,260.00
28	Soil Erosion and Sedimentation Control	1 LS	@	\$ 2,500.00	= \$ 2,500.00
29	Street Sign, Artistic, Special	1 EA	@	\$ 600.00	= \$ 600.00
30	Maintaining Traffic	1 LS	@	\$ 7,500.00	= \$ 7,500.00
SUBTOTAL					\$ 405,000.00
Construction Contingency (25%)					\$ 101,300.00
TOTAL CONSTRUCTION					\$ 506,300.00
Engineering, Survey, Geotechnical, Permitting (25%)					\$ 126,600.00
TOTAL PROJECT					\$ 632,900.00



**PRELIMINARY OPINION OF PROBABLE
CONSTRUCTION COST
ESTIMATE NO. 9**

555 Hulet Drive
Bloomfield Hills, MI 48302
P: (248) 454-6300 - F: (248) 454-6312

PROJECT: VILLAGE OF BINGHAM FARMS ROAD IMPROVEMENTS PROGRAM
LOCATION: HICKORY HOLLOW
WORK: **HMA RESURFACING 2", DITCH CLEANOUT/CRACK TREATMENT**
FULL DEPTH REPAIRS AND CRACK TREATMENT
DRAINAGE IMPROVEMENTS, DITCH CLEANOUT (ASSUME 15%)

DATE: November 17, 2023
PROJECT #: 20220208
ESTIMATOR: WJW
CHECKED BY: BWS
CURRENT ENR (Nov. 2023): 13511

Item	Qty	Unit	Rev	Unit Price	Rev Total
1	Mobilization	1 LS	@	\$ 7,000.00	= \$ 7,000.00
2	Color Audio-Video Route Survey	1 LS	@	\$ 1,500.00	= \$ 1,500.00
3	Cold Milling HMA, 2"	2,210 SYD	@	\$ 4.00	= \$ 8,840.00
4	Crack Repair, Det 7	250 ft	@	\$ 25.00	= \$ 6,250.00
5	HMA Surface, Rem	221 SYD	@	\$ 10.00	= \$ 2,210.00
6	HMA Surface, Rem, Driveway Approach	80 SYD	@	\$ 10.00	= \$ 800.00
7	Butt Joint	185 LFT	@	\$ 10.00	= \$ 1,850.00
8	Station Grading	- STA	@	\$ 3,000.00	= \$ -
9	Subgrade Undercutting, Type II, Special (As Needed)	74 CYD	@	\$ 40.00	= \$ 2,950.00
10	Large Aperture Geogrid (As Needed)	221 SYD	@	\$ 10.00	= \$ 2,210.00
11	Aggregate Base, 21AA, Special (As Needed)	46 TON	@	\$ 40.00	= \$ 1,860.00
12	1" x 3" Crushed Concrete, Special (As Needed)	93 TON	@	\$ 25.00	= \$ 2,320.00
13	Ditch Cleanout/Reestablishment (As Needed)	1.5 STA	@	\$ 1,000.00	= \$ 1,500.00
14	Underdrain, Subgrade, Open-Graded, 6-inch, Special	- LFT	@	\$ 25.00	= \$ -
15	Underdrain, Cleanout	- EA	@	\$ 4,000.00	= \$ -
16	Aggregate Base, 21AA, Special	- TON	@	\$ 40.00	= \$ -
17	HMA, 5EML	243 TON	@	\$ 180.00	= \$ 43,760.00
18	HMA, 4EML	24 TON	@	\$ 180.00	= \$ 4,380.00
19	HMA, 5EML, Driveway Approach	7 TON	@	\$ 195.00	= \$ 1,290.00
20	HMA, 4EML, Driveway Approach	11 TON	@	\$ 180.00	= \$ 1,980.00
21	Structure, Adjust	5 EA	@	\$ 1,000.00	= \$ 5,000.00
22	Structure, Reconstruct	2 EA	@	\$ 2,500.00	= \$ 5,000.00
23	Maintenance Gravel/Millings (As Needed)	30 TON	@	\$ 30.00	= \$ 900.00
24	Miscellaneous Drainage Improvements	1 LS	@	\$ 25,000.00	= \$ 25,000.00
25	Site Restoration	850 SYD	@	\$ 7.00	= \$ 5,950.00
26	Soil Erosion and Sedimentation Control	1 LS	@	\$ 2,500.00	= \$ 2,500.00
27	Street Sign, Artistic, Special	2 EA	@	\$ 600.00	= \$ 1,200.00
28	Maintaining Traffic	1 LS	@	\$ 7,500.00	= \$ 7,500.00
SUBTOTAL					\$ 143,800.00
Construction Contingency (25%)					\$ 36,000.00
TOTAL CONSTRUCTION					\$ 179,800.00
Engineering, Survey, Geotechnical, Permitting (25%)					\$ 45,000.00
TOTAL PROJECT					\$ 224,800.00



**PRELIMINARY OPINION OF PROBABLE
CONSTRUCTION COST
ESTIMATE NO. 9a**

555 Hulet Drive
Bloomfield Hills, MI 48302
P: (248) 454-6300 - F: (248) 454-6312

PROJECT: VILLAGE OF BINGHAM FARMS ROAD IMPROVEMENTS PROGRAM
LOCATION: HICKORY HOLLOW
WORK: **HMA REHAB 5", UNDERDRAIN, DRAINAGE IMPROVEMENTS**
UNDERDRAIN (100% OF THE ROAD)
DITCH CLEANOUT (ASSUME 15%)

DATE: November 17, 2023
PROJECT #: 20220208
ESTIMATOR: WJW
CHECKED BY: BWS
CURRENT ENR (Nov. 2023): 13511

Item	Qty	Unit	Rev	Unit Price	Rev Total
1	Mobilization	1 LS	@ \$	15,000.00 = \$	15,000.00
2	Color Audio-Video Route Survey	1 LS	@ \$	2,000.00 = \$	2,000.00
3	Cold Milling HMA, 5"	2,210 SYD	@ \$	6.00 = \$	13,260.00
4	HMA Surface, Rem	332 SYD	@ \$	10.00 = \$	3,320.00
5	HMA Surface, Rem, Driveway Approach	220 SYD	@ \$	10.00 = \$	2,200.00
6	Butt Joint	325 LFT	@ \$	10.00 = \$	3,250.00
7	Station Grading	9 STA	@ \$	3,000.00 = \$	27,000.00
8	Subgrade Undercutting, Type II, Special (As Needed)	17 CYD	@ \$	40.00 = \$	660.00
9	Large Aperture Geogrid (As Needed)	50 SYD	@ \$	10.00 = \$	500.00
10	Aggregate Base, 21AA, Special (As Needed)	10 TON	@ \$	40.00 = \$	420.00
11	1" x 3" Crushed Concrete, Special (As Needed)	15 TON	@ \$	25.00 = \$	370.00
12	Ditch Cleanout/Reestablishment (As Needed)	1.5 STA	@ \$	1,000.00 = \$	1,500.00
13	Underdrain, Subgrade, Open-Graded, 6-inch, Special	1,790 LFT	@ \$	25.00 = \$	44,750.00
14	Underdrain, Cleanout	6 EA	@ \$	4,000.00 = \$	24,000.00
15	Aggregate Base, 21AA, Special	232 TON	@ \$	40.00 = \$	9,280.00
16	HMA, 5EML	243 TON	@ \$	175.00 = \$	42,540.00
17	HMA, 4EML	365 TON	@ \$	160.00 = \$	58,340.00
18	HMA, 5EML, Driveway Approach	18 TON	@ \$	195.00 = \$	3,540.00
19	HMA, 4EML, Driveway Approach	30 TON	@ \$	180.00 = \$	5,450.00
20	Structure, Adjust	5 EA	@ \$	1,000.00 = \$	5,000.00
21	Structure, Reconstruct	2 EA	@ \$	2,500.00 = \$	5,000.00
22	Maintenance Gravel/Millings (As Needed)	30 TON	@ \$	30.00 = \$	900.00
23	Miscellaneous Drainage Improvements	1 LS	@ \$	25,000.00 = \$	25,000.00
24	Site Restoration	1,703 SYD	@ \$	7.00 = \$	11,920.00
25	Soil Erosion and Sedimentation Control	1 LS	@ \$	2,500.00 = \$	2,500.00
26	Street Sign, Artistic, Special	2 EA	@ \$	600.00 = \$	1,200.00
27	Maintaining Traffic	1 LS	@ \$	5,000.00 = \$	5,000.00
SUBTOTAL					\$ 313,900.00
Construction Contingency (25%)					\$ 78,500.00
TOTAL CONSTRUCTION					\$ 392,400.00
Engineering, Survey, Geotechnical, Permitting (25%)					\$ 98,100.00
TOTAL PROJECT					\$ 490,500.00



**PRELIMINARY OPINION OF PROBABLE
CONSTRUCTION COST
ESTIMATE NO. 10**

555 Hulet Drive
Bloomfield Hills, MI 48302
P: (248) 454-6300 - F: (248) 454-6312

PROJECT: VILLAGE OF BINGHAM FARMS ROAD IMPROVEMENTS PROGRAM
LOCATION: OLD ORCHARD TRAIL
WORK: **CRACK SEALING, SLURRY SEAL, DITCH CLEANOUT**
LIMITED FULL DEPTH REPAIRS, LIMITED DITCH & DRAINAGE IMPROVEMENTS

DATE: November 17, 2023
PROJECT #: 20220208
ESTIMATOR: RAD/ECA
CHECKED BY: BWS
CURRENT (MARCH 2022) ENR: 12791.43
CURRENT ENR (Nov. 2023): 13511

Item	Qty	Unit	Rev	Unit Price	Rev Total
1	Mobilization	1 LS	@ \$	12,000.00 =	\$ 12,000.00
2	Color Audio-Video Route Survey	1 LS	@ \$	2,000.00 =	\$ 2,000.00
3	Crack Sealing, HMA Pavement	0.480 Mile	@ \$	25,000.00 =	\$ 12,000.00
4	HMA Surface, Rem	580 SYD	@ \$	10.00 =	\$ 5,800.00
5	HMA Surface, Rem, Driveway Approach	140 SYD	@ \$	10.00 =	\$ 1,400.00
6	Conc Pavt, Rem, Driveway Approach	60 SYD	@ \$	30.00 =	\$ 1,800.00
7	Brick Paver, Rem, Driveway	40 SYD	@ \$	70.00 =	\$ 2,800.00
8	Butt Joint	290 LFT	@ \$	10.00 =	\$ 2,900.00
9	Station Grading	- STA	@ \$	3,000.00 =	\$ -
10	Subgrade Undercutting, Type II, Special (As Needed)	193 CYD	@ \$	40.00 =	\$ 7,730.00
11	Large Aperture Geogrid (As Needed)	580 SYD	@ \$	10.00 =	\$ 5,800.00
12	Aggregate Base, 21AA, Special (As Needed)	122 TON	@ \$	40.00 =	\$ 4,870.00
13	1" x 3" Crushed Concrete, Special (As Needed)	174 TON	@ \$	25.00 =	\$ 4,350.00
14	Ditch Cleanout/Reestablishment (As Needed)	5 STA	@ \$	1,000.00 =	\$ 5,000.00
15	Underdrain, Subgrade, Open-Graded, 6-inch, Special	- LFT	@ \$	25.00 =	\$ -
16	Underdrain, Cleanout	- EA	@ \$	4,000.00 =	\$ -
17	Aggregate Base, 21AA, Special	122 TON	@ \$	40.00 =	\$ 4,870.00
18	Slurry Seal	5,800 SYD	@ \$	5.00 =	\$ 29,000.00
19	HMA, 5EML	48 TON	@ \$	195.00 =	\$ 9,330.00
20	HMA, 4EML	80 TON	@ \$	180.00 =	\$ 14,360.00
21	HMA, 5EML, Driveway Approach	20 TON	@ \$	195.00 =	\$ 3,860.00
22	HMA, 4EML, Driveway Approach	33 TON	@ \$	180.00 =	\$ 5,940.00
23	Structure, Adjust	4 EA	@ \$	1,000.00 =	\$ 4,000.00
24	Structure, Reconstruct	2 EA	@ \$	2,500.00 =	\$ 5,000.00
25	Maintenance Gravel/Millings (As Needed)	100 TON	@ \$	30.00 =	\$ 3,000.00
26	Miscellaneous Drainage Improvements	1 LS	@ \$	45,000.00 =	\$ 45,000.00
27	Site Restoration	5,698 SYD	@ \$	7.00 =	\$ 39,890.00
28	Soil Erosion and Sedimentation Control	1 LS	@ \$	2,500.00 =	\$ 2,500.00
29	Street Sign, Artistic, Special	1 EA	@ \$	600.00 =	\$ 600.00
30	Maintaining Traffic	1 LS	@ \$	10,500.00 =	\$ 10,500.00
SUBTOTAL					\$ 246,300.00
Construction Contingency (25%)					\$ 61,600.00
TOTAL CONSTRUCTION					\$ 307,900.00
Engineering, Survey, Geotechnical, Permitting (25%)					\$ 77,000.00
TOTAL PROJECT					\$ 384,900.00



**PRELIMINARY OPINION OF PROBABLE
CONSTRUCTION COST
ESTIMATE NO. 10a**

555 Hulet Drive
Bloomfield Hills, MI 48302
P: (248) 454-6300 - F: (248) 454-6312

PROJECT: VILLAGE OF BINGHAM FARMS ROAD IMPROVEMENTS PROGRAM
LOCATION: OLD ORCHARD TRAIL
WORK: **HMA REHAB 4", UNDERDRAIN, DRAINAGE IMPROVEMENTS**
UNDERDRAIN (100% OF THE ROAD)
DITCH CLEANOUT (ASSUME 20%)

DATE: November 17, 2023
PROJECT #: 20220208
ESTIMATOR: RAD/ECA
CHECKED BY: BWS
CURRENT ENR (Nov. 2023): 13511

Item	Qty	Unit	Rev	Unit Price	Rev Total
1	Mobilization	1 LS	@	\$ 35,000.00	= \$ 35,000.00
2	Color Audio-Video Route Survey	1 LS	@	\$ 2,000.00	= \$ 2,000.00
3	Cold Milling HMA, 4"	5,800 SYD	@	\$ 6.00	= \$ 34,800.00
4	HMA Surface, Rem, Driveway Approach	400 SYD	@	\$ 10.00	= \$ 4,000.00
5	Conc Pavt, Rem, Driveway Approach	140 SYD	@	\$ 30.00	= \$ 4,200.00
6	Brick Paver, Rem, Driveway	40 SYD	@	\$ 75.00	= \$ 3,000.00
7	Butt Joint	470 LFT	@	\$ 10.00	= \$ 4,700.00
8	Station Grading	25.5 STA	@	\$ 3,000.00	= \$ 76,500.00
9	Subgrade Undercutting, Type II, Special (As Needed)	193 CYD	@	\$ 40.00	= \$ 7,730.00
10	Large Aperture Geogrid (As Needed)	580 SYD	@	\$ 10.00	= \$ 5,800.00
11	Aggregate Base, 21AA, Special (As Needed)	122 TON	@	\$ 4.00	= \$ 490.00
12	1" x 3" Crushed Concrete, Special (As Needed)	174 TON	@	\$ 25.00	= \$ 4,350.00
13	Ditch Cleanout/Reestablishment (As Needed)	5 STA	@	\$ 1,000.00	= \$ 5,000.00
14	Underdrain, Subgrade, Open-Graded, 6-inch, Special	5,110 LFT	@	\$ 25.00	= \$ 127,750.00
15	Underdrain, Cleanout	12 EA	@	\$ 4,000.00	= \$ 48,000.00
16	Aggregate Base, 21AA, Special	609 TON	@	\$ 40.00	= \$ 24,360.00
17	HMA, 5EML	479 TON	@	\$ 175.00	= \$ 83,740.00
18	HMA, 4EML	798 TON	@	\$ 160.00	= \$ 127,600.00
19	HMA, 5EML, Driveway Approach	48 TON	@	\$ 195.00	= \$ 9,330.00
20	HMA, 4EML, Driveway Approach	80 TON	@	\$ 180.00	= \$ 14,360.00
21	Structure, Adjust	9 EA	@	\$ 1,000.00	= \$ 9,000.00
22	Structure, Reconstruct	4 EA	@	\$ 2,500.00	= \$ 10,000.00
23	Maintenance Gravel/Millings (As Needed)	100 TON	@	\$ 30.00	= \$ 3,000.00
24	Miscellaneous Drainage Improvements	1 LS	@	\$ 45,000.00	= \$ 45,000.00
25	Site Restoration	5,698 SYD	@	\$ 7.00	= \$ 39,890.00
26	Soil Erosion and Sedimentation Control	1 LS	@	\$ 2,500.00	= \$ 2,500.00
27	Street Sign, Artistic, Special	1 EA	@	\$ 600.00	= \$ 600.00
28	Maintaining Traffic	1 LS	@	\$ 10,500.00	= \$ 10,500.00
SUBTOTAL					\$ 743,200.00
Construction Contingency (25%)					\$ 185,800.00
TOTAL CONSTRUCTION					\$ 929,000.00
Engineering, Survey, Geotechnical, Permitting (25%)					\$ 232,300.00
TOTAL PROJECT					\$ 1,161,300.00



**PRELIMINARY OPINION OF PROBABLE
CONSTRUCTION COST
ESTIMATE NO. 11**

555 Hulet Drive
Bloomfield Hills, MI 48302
P: (248) 454-6300 - F: (248) 454-6312

PROJECT: VILLAGE OF BINGHAM FARMS ROAD IMPROVEMENTS PROGRAM
LOCATION: OLD STAGE ROAD
WORK: **FULL DEPTH CONCRETE REPAIRS (SMALLER SCOPE)**
AS-NEEDED CURB AND GUTTER (ASSUME 15%)

DATE: November 17, 2023
PROJECT #: 20220208
ESTIMATOR: WJW
CHECKED BY: BWS
CURRENT ENR (Nov. 2023): 13511

Item	Qty	Unit	Rev	Unit Price	Rev Total
1	Mobilization	1 LS	@	\$ 7,000.00	= \$ 7,000.00
2	Color Audio-Video Route Survey	1 LS	@	\$ 2,500.00	= \$ 2,500.00
3	Conc Pavt, Rem	413 SYD	@	\$ 30.00	= \$ 12,400.00
4	Conc Pavt, Rem, Driveway Approach	80 SYD	@	\$ 30.00	= \$ 2,400.00
5	HMA Surface, Rem, Driveway Approaches	20 SYD	@	\$ 10.00	= \$ 200.00
6	Curb and Gutter, Rem	260 LFT	@	\$ 9.00	= \$ 2,340.00
7	Station Grading	8.5 STA	@	\$ 1,500.00	= \$ 12,750.00
8	Subgrade Undercutting, Type II, Special (As Needed)	138 CYD	@	\$ 40.00	= \$ 5,500.00
9	Large Aperture Geogrid (As Needed)	413 SYD	@	\$ 10.00	= \$ 4,130.00
10	Aggregate Base, 21AA, Special (As Needed)	87 TON	@	\$ 40.00	= \$ 3,470.00
11	1" x 3" Crushed Concrete, Special (As Needed)	124 TON	@	\$ 25.00	= \$ 3,100.00
12	Underdrain, Subgrade, Open-Graded, 6-inch, Special	- LFT	@	\$ 25.00	= \$ -
13	Underdrain, Cleanout	- EA	@	\$ 4,000.00	= \$ -
14	Aggregate Base, 21AA, Special	43 TON	@	\$ 40.00	= \$ 1,740.00
15	Driveway, Nonreinforced Conc, 6 inch	100 SYD	@	\$ 50.00	= \$ 5,000.00
16	Conc Pavt, 8 inch	413 SYD	@	\$ 65.00	= \$ 26,860.00
17	Curb and Gutter, Conc, Det D3	260 LFT	@	\$ 35.00	= \$ 9,090.00
18	Structure, Adjust	8 EA	@	\$ 1,000.00	= \$ 8,000.00
19	Structure, Reconstruct	4 EA	@	\$ 2,500.00	= \$ 10,000.00
20	Maintenance Gravel/Millings (As Needed)	60 TON	@	\$ 30.00	= \$ 1,800.00
21	Site Restoration	282 SYD	@	\$ 7.00	= \$ 1,970.00
22	Soil Erosion and Sedimentation Control	1 LS	@	\$ 2,500.00	= \$ 2,500.00
23	Street Sign, Artistic, Special	3 EA	@	\$ 600.00	= \$ 1,800.00
24	Maintaining Traffic	1 LS	@	\$ 15,000.00	= \$ 15,000.00
SUBTOTAL					\$ 139,600.00
Construction Contingency (25%)					\$ 34,900.00
TOTAL CONSTRUCTION					\$ 174,500.00
Engineering, Survey, Geotechnical, Permitting (25%)					\$ 43,600.00
TOTAL PROJECT					\$ 218,100.00



**PRELIMINARY OPINION OF PROBABLE
CONSTRUCTION COST
ESTIMATE NO. 11a**

555 Hulet Drive
Bloomfield Hills, MI 48302
P: (248) 454-6300 - F: (248) 454-6312

PROJECT: VILLAGE OF BINGHAM FARMS ROAD IMPROVEMENTS PROGRAM
LOCATION: OLD STAGE ROAD
WORK: **FULL DEPTH CONCRETE REPAIRS (EXPANDED SCOPE)**
AS-NEEDED CURB AND GUTTER (ASSUME 30%)

DATE: November 17, 2023
PROJECT #: 20220208
ESTIMATOR: WJW
CHECKED BY: BWS
CURRENT ENR (Nov. 2023): 13511

Item	Qty	Unit	Rev	Unit Price	Rev Total
1	Mobilization	1 LS	@	\$ 11,000.00	= \$ 11,000.00
2	Color Audio-Video Route Survey	1 LS	@	\$ 2,500.00	= \$ 2,500.00
3	Conc Pavt, Rem	827 SYD	@	\$ 30.00	= \$ 24,800.00
4	Conc Pavt, Rem, Driveway Approach	160 SYD	@	\$ 30.00	= \$ 4,800.00
5	HMA Surface, Rem, Driveway Approaches	40 SYD	@	\$ 10.00	= \$ 400.00
6	Curb and Gutter, Rem	519 LFT	@	\$ 9.00	= \$ 4,670.00
7	Station Grading	8.5 STA	@	\$ 1,500.00	= \$ 12,750.00
8	Subgrade Undercutting, Type II, Special (As Needed)	275 CYD	@	\$ 40.00	= \$ 11,010.00
9	Large Aperture Geogrid (As Needed)	827 SYD	@	\$ 10.00	= \$ 8,270.00
10	Aggregate Base, 21AA, Special (As Needed)	173 TON	@	\$ 40.00	= \$ 6,940.00
11	1" x 3" Crushed Concrete, Special (As Needed)	248 TON	@	\$ 25.00	= \$ 6,200.00
12	Underdrain, Subgrade, Open-Graded, 6-inch, Special	- LFT	@	\$ 25.00	= \$ -
13	Underdrain, Cleanout	- EA	@	\$ 4,000.00	= \$ -
14	Aggregate Base, 21AA, Special	87 TON	@	\$ 40.00	= \$ 3,470.00
15	Driveway, Nonreinforced Conc, 6 inch	200 SYD	@	\$ 50.00	= \$ 10,000.00
16	Conc Pavt, 8 inch	827 SYD	@	\$ 65.00	= \$ 53,720.00
17	Curb and Gutter, Conc, Det D3	519 LFT	@	\$ 35.00	= \$ 18,180.00
18	Structure, Adjust	8 EA	@	\$ 1,000.00	= \$ 8,000.00
19	Structure, Reconstruct	4 EA	@	\$ 2,500.00	= \$ 10,000.00
20	Maintenance Gravel/Millings (As Needed)	60 TON	@	\$ 30.00	= \$ 1,800.00
21	Site Restoration	563 SYD	@	\$ 7.00	= \$ 3,940.00
22	Soil Erosion and Sedimentation Control	1 LS	@	\$ 2,500.00	= \$ 2,500.00
23	Street Sign, Artistic, Special	3 EA	@	\$ 600.00	= \$ 1,800.00
24	Maintaining Traffic	1 LS	@	\$ 15,000.00	= \$ 15,000.00
SUBTOTAL					\$ 221,800.00
Construction Contingency (25%)					\$ 55,500.00
TOTAL CONSTRUCTION					\$ 277,300.00
Engineering, Survey, Geotechnical, Permitting (25%)					\$ 69,300.00
TOTAL PROJECT					\$ 346,600.00



**PRELIMINARY OPINION OF PROBABLE
CONSTRUCTION COST
ESTIMATE NO. 12**

555 Hulet Drive
Bloomfield Hills, MI 48302
P: (248) 454-6300 - F: (248) 454-6312

PROJECT: VILLAGE OF BINGHAM FARMS ROAD IMPROVEMENTS PROGRAM
LOCATION: SAGER CT.
WORK: **HMA REHAB 5", UNDERDRAIN, DRAINAGE IMPROVEMENTS**
100% UNDERDRAIN
DITCH CLEANOUT (ASSUME 75%)

DATE: November 17, 2023
PROJECT #: 20220208
ESTIMATOR: WJW
CHECKED BY: BWS
CURRENT ENR (Nov. 2023): 13511

Item	Qty	Unit	Rev	Unit Price	Rev Total
1	Mobilization	1 LS	@	\$ 13,000.00 =	\$ 13,000.00
2	Color Audio-Video Route Survey	1 LS	@	\$ 2,000.00 =	\$ 2,000.00
3	Cold Milling HMA, 5"	1,700 SYD	@	\$ 6.00 =	\$ 10,200.00
3	HMA Surface, Rem	149 SYD	@	\$ 10.00 =	\$ 1,490.00
4	HMA Surface, Rem, Driveway Approach	120 SYD	@	\$ 10.00 =	\$ 1,200.00
5	Conc Pavt, Rem, Driveway Approach	20 SYD	@	\$ 30.00 =	\$ 600.00
6	Butt Joint	- LFT	@	\$ 10.00 =	\$ -
7	Station Grading	7 STA	@	\$ 3,000.00 =	\$ 21,000.00
8	Subgrade Undercutting, Type II, Special (As Needed)	17 CYD	@	\$ 40.00 =	\$ 660.00
9	Large Aperture Geogrid (As Needed)	170 SYD	@	\$ 10.00 =	\$ 1,700.00
10	Aggregate Base, 21AA, Special (As Needed)	36 TON	@	\$ 40.00 =	\$ 1,430.00
11	1" x 3" Crushed Concrete, Special (As Needed)	51 TON	@	\$ 25.00 =	\$ 1,280.00
12	Ditch Cleanout/Reestablishment (As Needed)	8.025 STA	@	\$ 1,000.00 =	\$ 8,030.00
13	Underdrain, Subgrade, Open-Graded, 6-inch, Special	1,390 LFT	@	\$ 25.00 =	\$ 34,750.00
14	Underdrain, Cleanout	5 EA	@	\$ 4,000.00 =	\$ 20,000.00
15	Aggregate Base, 21AA, Special	179 TON	@	\$ 40.00 =	\$ 7,140.00
16	HMA, 5EML	187 TON	@	\$ 175.00 =	\$ 32,730.00
17	HMA, 4EML	281 TON	@	\$ 160.00 =	\$ 44,880.00
18	HMA, 5EML, Driveway Approach	12 TON	@	\$ 195.00 =	\$ 2,250.00
19	HMA, 4EML, Driveway Approach	19 TON	@	\$ 180.00 =	\$ 3,470.00
20	Structure, Adjust	2 EA	@	\$ 1,000.00 =	\$ 2,000.00
21	Structure, Reconstruct	1 EA	@	\$ 2,500.00 =	\$ 2,500.00
22	Maintenance Gravel/Millings (As Needed)	50 TON	@	\$ 30.00 =	\$ 1,500.00
23	Miscellaneous Drainage Improvements	1 LS	@	\$ 35,000.00 =	\$ 35,000.00
24	Site Restoration	1 LS	@	\$ 10,000.00 =	\$ 10,000.00
25	Soil Erosion and Sedimentation Control	1 LS	@	\$ 2,500.00 =	\$ 2,500.00
26	Street Sign, Artistic, Special	1 EA	@	\$ 600.00 =	\$ 600.00
27	Maintaining Traffic	1 LS	@	\$ 6,000.00 =	\$ 6,000.00
SUBTOTAL					\$ 267,900.00
Construction Contingency (25%)					\$ 67,000.00
TOTAL CONSTRUCTION					\$ 334,900.00
Engineering, Survey, Geotechnical, Permitting (25%)					\$ 83,700.00
TOTAL PROJECT					\$ 418,600.00



**PRELIMINARY OPINION OF PROBABLE
CONSTRUCTION COST
ESTIMATE NO. 13**

555 Hulet Drive
Bloomfield Hills, MI 48302
P: (248) 454-6300 - F: (248) 454-6312

PROJECT: VILLAGE OF BINGHAM FARMS ROAD IMPROVEMENTS PROGRAM
LOCATION: SHAGWOOD DR.
WORK: **HMA RESURFACING 2", DITCH CLEANOUT CRACK TREATMENT**
DITCH CLEANOUT (ASSUME 75%)

DATE: November 17, 2023
PROJECT #: 20220208
ESTIMATOR: WJW
CHECKED BY: BWS
CURRENT ENR (Nov. 2023): 13511

Item	Qty	Unit	Rev	Unit Price	Rev Total
1	Mobilization	1 LS	@	\$ 12,000.00 =	\$ 12,000.00
2	Color Audio-Video Route Survey	1 LS	@	\$ 2,000.00 =	\$ 2,000.00
3	Cold Milling HMA, 2"	4,350 SYD	@	\$ 4.00 =	\$ 17,400.00
4	Crack Repair, Det 7	300 ft	@	\$ 25.00 =	\$ 7,500.00
5	HMA Surface, Rem	389 SYD	@	\$ 10.00 =	\$ 3,890.00
6	HMA Surface, Rem, Driveway Approach	160 SYD	@	\$ 10.00 =	\$ 1,600.00
7	Brick Paver, Rem, Driveway Approach	40 SYD	@	\$ 70.00 =	\$ 2,800.00
8	Butt Joint	230 LFT	@	\$ 10.00 =	\$ 2,300.00
9	Station Grading	- STA	@	\$ 3,000.00 =	\$ -
10	Subgrade Undercutting, Type II, Special (As Needed)	130 CYD	@	\$ 40.00 =	\$ 5,190.00
11	Large Aperture Geogrid (As Needed)	389 SYD	@	\$ 10.00 =	\$ 3,890.00
12	Aggregate Base, 21AA, Special (As Needed)	82 TON	@	\$ 40.00 =	\$ 3,270.00
13	1" x 3" Crushed Concrete, Special (As Needed)	117 TON	@	\$ 25.00 =	\$ 2,920.00
14	Ditch Cleanout/Reestablishment (As Needed)	13.5 STA	@	\$ 1,000.00 =	\$ 13,500.00
15	Underdrain, Subgrade, Open-Graded, 6-inch, Special	- LFT	@	\$ 25.00 =	\$ -
16	Underdrain, Cleanout	- EA	@	\$ 4,000.00 =	\$ -
17	Aggregate Base, 21AA, Special	- TON	@	\$ 40.00 =	\$ -
18	HMA, 5EML	479 TON	@	\$ 180.00 =	\$ 86,130.00
19	HMA, 4EML	64 TON	@	\$ 180.00 =	\$ 11,550.00
20	HMA, 5EML, Driveway Approach	17 TON	@	\$ 195.00 =	\$ 3,220.00
21	HMA, 4EML, Driveway Approach	28 TON	@	\$ 180.00 =	\$ 4,950.00
22	Structure, Adjust	9 EA	@	\$ 1,000.00 =	\$ 9,000.00
23	Structure, Reconstruct	4 EA	@	\$ 2,500.00 =	\$ 10,000.00
24	Maintenance Gravel/Millings (As Needed)	50 TON	@	\$ 30.00 =	\$ 1,500.00
25	Miscellaneous Drainage Improvements	1 LS	@	\$ 35,000.00 =	\$ 35,000.00
26	Site Restoration	1 LS	@	\$ 10,000.00 =	\$ 10,000.00
27	Soil Erosion and Sedimentation Control	1 LS	@	\$ 2,500.00 =	\$ 2,500.00
28	Street Sign, Artistic, Special	1 EA	@	\$ 600.00 =	\$ 600.00
29	Maintaining Traffic	1 LS	@	\$ 6,000.00 =	\$ 6,000.00
SUBTOTAL					\$ 258,700.00
Construction Contingency (25%)					\$ 64,700.00
TOTAL CONSTRUCTION					\$ 323,400.00
Engineering, Survey, Geotechnical, Permitting (25%)					\$ 80,900.00
TOTAL PROJECT					\$ 404,300.00



**PRELIMINARY OPINION OF PROBABLE
CONSTRUCTION COST
ESTIMATE NO. 13a**

555 Hulet Drive
Bloomfield Hills, MI 48302
P: (248) 454-6300 - F: (248) 454-6312

PROJECT: VILLAGE OF BINGHAM FARMS ROAD IMPROVEMENTS PROGRAM
LOCATION: SHAGWOOD DR.
WORK: **HMA REHAB 5", UNDERDRAIN, DRAINAGE IMPROVEMENTS**
UNDERDRAIN (100% OF THE ROAD)
DITCH CLEANOUT (ASSUME 75%)

DATE: November 17, 2023
PROJECT #: 20220208
ESTIMATOR: WJW
CHECKED BY: BWS
CURRENT ENR (Nov. 2023): 13511

Item	Qty	Unit	Rev	Unit Price	Rev Total
1	Mobilization	1 LS	@	\$ 26,000.00	= \$ 26,000.00
2	Color Audio-Video Route Survey	1 LS	@	\$ 2,000.00	= \$ 2,000.00
3	Cold Milling HMA, 5"	4,350 SYD	@	\$ 6.00	= \$ 26,100.00
3	HMA Surface, Rem	389 SYD	@	\$ 10.00	= \$ 3,890.00
4	HMA Surface, Rem, Driveway Approach	360 SYD	@	\$ 10.00	= \$ 3,600.00
5	Brick Paver, Rem, Driveway Approach	40 SYD	@	\$ 70.00	= \$ 2,800.00
6	Butt Joint	410 LFT	@	\$ 10.00	= \$ 4,100.00
7	Station Grading	18 STA	@	\$ 3,000.00	= \$ 54,000.00
8	Subgrade Undercutting, Type II, Special (As Needed)	43 CYD	@	\$ 40.00	= \$ 1,730.00
9	Large Aperture Geogrid (As Needed)	435 SYD	@	\$ 10.00	= \$ 4,350.00
10	Aggregate Base, 21AA, Special (As Needed)	91 TON	@	\$ 40.00	= \$ 3,650.00
11	1" x 3" Crushed Concrete, Special (As Needed)	131 TON	@	\$ 25.00	= \$ 3,260.00
12	Ditch Cleanout/Reestablishment (As Needed)	13.5 STA	@	\$ 1,000.00	= \$ 13,500.00
13	Underdrain, Subgrade, Open-Graded, 6-inch, Special	3,350 LFT	@	\$ 25.00	= \$ 83,750.00
14	Underdrain, Cleanout	8 EA	@	\$ 4,000.00	= \$ 32,000.00
15	Aggregate Base, 21AA, Special	41 TON	@	\$ 40.00	= \$ 1,630.00
16	HMA, 5EML	479 TON	@	\$ 175.00	= \$ 83,740.00
17	HMA, 4EML	718 TON	@	\$ 160.00	= \$ 114,840.00
18	HMA, 5EML, Driveway Approach	33 TON	@	\$ 195.00	= \$ 6,440.00
19	HMA, 4EML, Driveway Approach	55 TON	@	\$ 180.00	= \$ 9,900.00
20	Structure, Adjust	9 EA	@	\$ 1,000.00	= \$ 9,000.00
21	Structure, Reconstruct	4 EA	@	\$ 2,500.00	= \$ 10,000.00
22	Maintenance Gravel/Millings (As Needed)	50 TON	@	\$ 30.00	= \$ 1,500.00
23	Miscellaneous Drainage Improvements	1 LS	@	\$ 35,000.00	= \$ 35,000.00
24	Site Restoration	1 LS	@	\$ 10,000.00	= \$ 10,000.00
25	Soil Erosion and Sedimentation Control	1 LS	@	\$ 2,500.00	= \$ 2,500.00
26	Street Sign, Artistic, Special	1 EA	@	\$ 600.00	= \$ 600.00
27	Maintaining Traffic	1 LS	@	\$ 6,000.00	= \$ 6,000.00
SUBTOTAL					\$ 555,900.00
Construction Contingency (25%)					\$ 139,000.00
TOTAL CONSTRUCTION					\$ 694,900.00
Engineering, Survey, Geotechnical, Permitting (25%)					\$ 173,700.00
TOTAL PROJECT					\$ 868,600.00



**PRELIMINARY OPINION OF PROBABLE
CONSTRUCTION COST
ESTIMATE NO. 14**

555 Hulet Drive
Bloomfield Hills, MI 48302
P: (248) 454-6300 - F: (248) 454-6312

PROJECT: VILLAGE OF BINGHAM FARMS ROAD IMPROVEMENTS PROGRAM
LOCATION: TIMBER TRAIL
WORK: **HMA CRUSH & SHAPE + 3" RESURFACING, DRAINAGE**
NO UNDERDRAIN
DITCH CLEANOUT (ASSUME 75%)

DATE: November 17, 2023
PROJECT #: 20220208
ESTIMATOR: WJW
CHECKED BY: BWS
CURRENT ENR (Nov. 2023): 13511

Item	Qty	Unit	Rev	Unit Price	Rev Total
1	Mobilization	1 LS	@	\$ 18,000.00 =	\$ 18,000.00
2	Color Audio-Video Route Survey	1 LS	@	\$ 2,000.00 =	\$ 2,000.00
3	HMA Base Crushing and Shaping	4,355 SYD	@	\$ 5.00 =	\$ 21,780.00
4	HMA Surface, Rem, Driveway Approaches	40 SYD	@	\$ 10.00 =	\$ 400.00
5	Butt Joint	170 LFT	@	\$ 10.00 =	\$ 1,700.00
6	Station Grading	22 STA	@	\$ 5,000.00 =	\$ 110,000.00
7	Subgrade Undercutting, Type II, Special (As Needed)	218 CYD	@	\$ 40.00 =	\$ 8,710.00
8	1" Aperture Geogrid (As Needed)	653 SYD	@	\$ 10.00 =	\$ 6,530.00
9	Aggregate Base, 21AA, Special (As Needed)	- TON	@	\$ 40.00 =	\$ -
10	1" x 3" Crushed Concrete, Special (As Needed)	- TON	@	\$ 25.00 =	\$ -
11	Earthwork to Place & Compact Pulverized HMA in Undercuts	218 CYD	@	\$ 5.00 =	\$ 1,090.00
12	Ditch Cleanout/Reestablishment (As Needed)	16.5 STA	@	\$ 1,000.00 =	\$ 16,500.00
13	Underdrain, Subgrade, Open-Graded, 6-inch, Special	- LFT	@	\$ 25.00 =	\$ -
14	Underdrain, Cleanout	- EA	@	\$ 4,000.00 =	\$ -
15	Aggregate Base, 21AA, Special	- TON	@	\$ 40.00 =	\$ -
16	HMA, 5EML	359 TON	@	\$ 175.00 =	\$ 62,880.00
17	HMA, 4EML	359 TON	@	\$ 160.00 =	\$ 57,490.00
18	HMA, 5EML, Driveway Approach	3 TON	@	\$ 195.00 =	\$ 640.00
19	HMA, 4EML, Driveway Approach	6 TON	@	\$ 180.00 =	\$ 990.00
20	Structure, Adjust	2 EA	@	\$ 1,000.00 =	\$ 2,000.00
21	Structure, Reconstruct	1 EA	@	\$ 2,500.00 =	\$ 2,500.00
22	Maintenance Gravel/Millings (As Needed)	90 TON	@	\$ 30.00 =	\$ 2,700.00
23	Miscellaneous Drainage Improvements	1 LS	@	\$ 45,000.00 =	\$ 45,000.00
24	Site Restoration	1 LS	@	\$ 10,000.00 =	\$ 10,000.00
25	Soil Erosion and Sedimentation Control	1 LS	@	\$ 2,500.00 =	\$ 2,500.00
26	Street Sign, Artistic, Special	1 EA	@	\$ 600.00 =	\$ 600.00
27	Maintaining Traffic	1 LS	@	\$ 8,000.00 =	\$ 8,000.00
SUBTOTAL					\$ 382,000.00
Construction Contingency (25%)					\$ 95,500.00
TOTAL CONSTRUCTION					\$ 477,500.00
Engineering, Survey, Geotechnical, Permitting (25%)					\$ 119,400.00
TOTAL PROJECT					\$ 596,900.00



**PRELIMINARY OPINION OF PROBABLE
CONSTRUCTION COST
ESTIMATE NO. 14a**

555 Hulet Drive
Bloomfield Hills, MI 48302
P: (248) 454-6300 - F: (248) 454-6312

PROJECT: VILLAGE OF BINGHAM FARMS ROAD IMPROVEMENTS PROGRAM
LOCATION: TIMBER TRAIL
WORK: **HMA REHAB 4", UNDERDRAIN, DRAINAGE IMPROVEMENTS**
UNDERDRAIN (100% OF THE ROAD)
DITCH CLEANOUT (ASSUME 75%)

DATE: November 17, 2023
PROJECT #: 20220208
ESTIMATOR: WJW
CHECKED BY: BWS
CURRENT ENR (Nov. 2023): 13511

Item	Qty	Unit	Rev	Unit Price	Rev Total
1	Mobilization	1 LS	@	\$ 28,000.00	= \$ 28,000.00
2	Color Audio-Video Route Survey	1 LS	@	\$ 2,000.00	= \$ 2,000.00
3	HMA Surface, Rem	4,355 SYD	@	\$ 6.00	= \$ 26,130.00
4	HMA Surface, Rem, Driveway Approaches	40 SYD	@	\$ 10.00	= \$ 400.00
5	Butt Joint	170 LFT	@	\$ 10.00	= \$ 1,700.00
6	Station Grading	22 STA	@	\$ 3,000.00	= \$ 66,000.00
7	Subgrade Undercutting, Type II, Special (As Needed)	290 CYD	@	\$ 40.00	= \$ 11,610.00
8	Large Aperture Geogrid (As Needed)	871 SYD	@	\$ 10.00	= \$ 8,710.00
9	Aggregate Base, 21AA, Special (As Needed)	181 TON	@	\$ 40.00	= \$ 7,240.00
10	1" x 3" Crushed Concrete, Special (As Needed)	261 TON	@	\$ 25.00	= \$ 6,540.00
11	Ditch Cleanout/Reestablishment (As Needed)	16.5 STA	@	\$ 1,000.00	= \$ 16,500.00
12	Underdrain, Subgrade, Open-Graded, 6-inch, Special	4,390 LFT	@	\$ 25.00	= \$ 109,750.00
13	Underdrain, Cleanout	13 EA	@	\$ 4,000.00	= \$ 52,000.00
14	Aggregate Base, 21AA, Special	457 TON	@	\$ 40.00	= \$ 18,290.00
15	HMA, 5EML	359 TON	@	\$ 175.00	= \$ 62,880.00
16	HMA, 4EML	599 TON	@	\$ 160.00	= \$ 95,810.00
17	HMA, 5EML, Driveway Approach	3 TON	@	\$ 195.00	= \$ 640.00
18	HMA, 4EML, Driveway Approach	6 TON	@	\$ 180.00	= \$ 990.00
19	Structure, Adjust	2 EA	@	\$ 1,000.00	= \$ 2,000.00
20	Structure, Reconstruct	1 EA	@	\$ 2,500.00	= \$ 2,500.00
21	Maintenance Gravel/Millings (As Needed)	90 TON	@	\$ 30.00	= \$ 2,700.00
22	Miscellaneous Drainage Improvements	1 LS	@	\$ 45,000.00	= \$ 45,000.00
23	Site Restoration	1 LS	@	\$ 10,000.00	= \$ 10,000.00
24	Soil Erosion and Sedimentation Control	1 LS	@	\$ 2,500.00	= \$ 2,500.00
25	Street Sign, Artistic, Special	1 EA	@	\$ 600.00	= \$ 600.00
26	Maintaining Traffic	1 LS	@	\$ 8,000.00	= \$ 8,000.00
SUBTOTAL					\$ 588,500.00
Construction Contingency (25%)					\$ 147,100.00
TOTAL CONSTRUCTION					\$ 735,600.00
Engineering, Survey, Geotechnical, Permitting (25%)					\$ 183,900.00
TOTAL PROJECT					\$ 919,500.00



**PRELIMINARY OPINION OF PROBABLE
CONSTRUCTION COST
ESTIMATE NO. 14b**

555 Hulet Drive
Bloomfield Hills, MI 48302
P: (248) 454-6300 - F: (248) 454-6312

PROJECT: VILLAGE OF BINGHAM FARMS ROAD IMPROVEMENTS PROGRAM
LOCATION: TIMBER TRAIL - PATH
WORK: **HMA CRUSH & SHAPE + 2", DITCH CLEANOUT**
DITCH CLEANOUT (ASSUME 20%)

DATE: September 25, 2023
PROJECT #: 20220208
ESTIMATOR: WJW
CHECKED BY: BWS
CURRENT ENR (Nov. 2023): 13511

Item	Qty	Unit	Rev	Unit Price	Rev Total
1	Mobilization	1 LS	@	\$ 10,000.00	= \$ 10,000.00
2	Color Audio-Video Route Survey	1 LS	@	\$ 2,000.00	= \$ 2,000.00
3	HMA Base Crushing and Shaping	4,355 SYD	@	\$ 5.00	= \$ 21,780.00
4	HMA Surface, Rem, Driveway Approaches	40 SYD	@	\$ 10.00	= \$ 400.00
5	Butt Joint	170 LFT	@	\$ 10.00	= \$ 1,700.00
6	Subgrade Undercutting, Type II, Special (As Needed)	218 CYD	@	\$ 40.00	= \$ 8,710.00
7	Large Aperture Geogrid (As Needed)	653 SYD	@	\$ 10.00	= \$ 6,530.00
8	Aggregate Base, 21AA, Special (As Needed)	137 TON	@	\$ 40.00	= \$ 5,490.00
9	1" x 3" Crushed Concrete, Special (As Needed)	196 TON	@	\$ 25.00	= \$ 4,900.00
10	Ditch Cleanout/Reestablishment (As Needed)	4.5 STA	@	\$ 1,000.00	= \$ 4,500.00
11	HMA, 36A	406 TON	@	\$ 185.00	= \$ 75,130.00
12	Structure, Adjust	2 EA	@	\$ 1,000.00	= \$ 2,000.00
13	Structure, Reconstruct	1 EA	@	\$ 2,500.00	= \$ 2,500.00
14	Bollards	9 EA	@	\$ 900.00	= \$ 8,100.00
15	Miscellaneous Drainage Improvements	1 LS	@	\$ 45,000.00	= \$ 45,000.00
16	Site Restoration	1 LS	@	\$ 5,000.00	= \$ 5,000.00
17	Soil Erosion and Sedimentation Control	1 LS	@	\$ 2,500.00	= \$ 2,500.00
18	Maintaining Traffic	1 LS	@	\$ 2,000.00	= \$ 2,000.00
SUBTOTAL					\$ 208,200.00
Construction Contingency (25%)					\$ 52,100.00
TOTAL CONSTRUCTION					\$ 260,300.00
Engineering, Survey, Geotechnical, Permitting (25%)					\$ 65,100.00
TOTAL PROJECT					\$ 325,400.00