Macomb County Department of Roads 2021-2022 Budget

Bryan E. Santo, P.E., Director of Roads



October 1, 2021 through September 30, 2022







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CONSTRUCTION PROGRAM

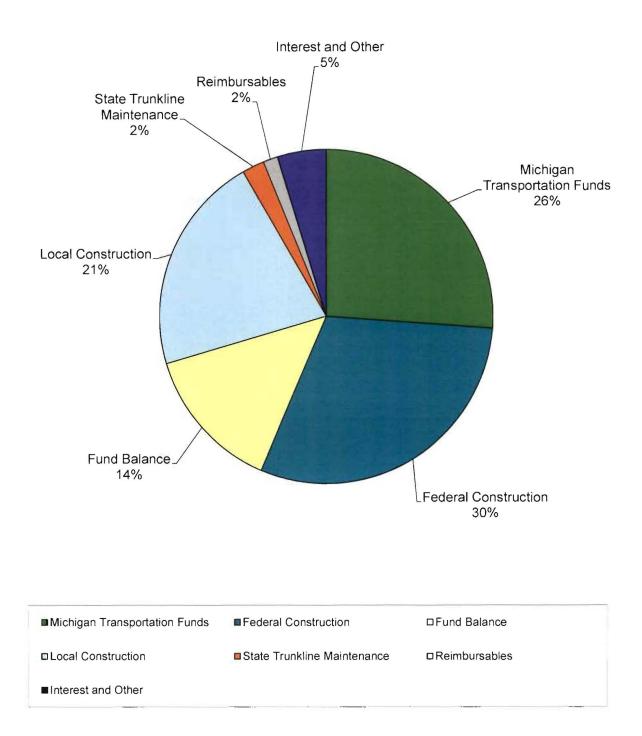
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2021/2022 Budgeted Revenues by Category

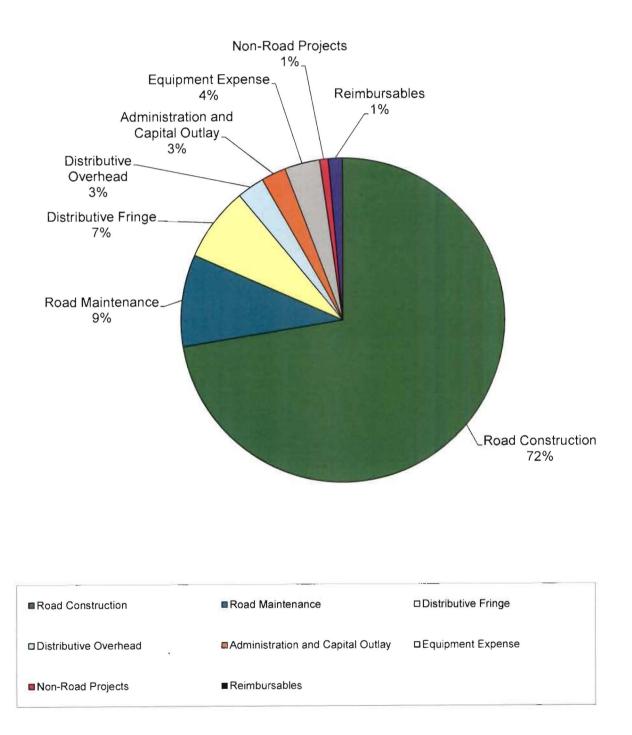








2021/2022 Budgeted Expenditures by Category









GENERAL APPROPRIATIONS ACT

BE IT RESOLVED, that revenues for the fiscal year commencing October 1, 2021 and ending September 30, 2022 are hereby appropriated by account consistent with the Uniform Chart of Accounts prescribed by the Department of Treasury, as follows:

Account No.	Description	2019/2020 Actual	2020/2021 Original Budget	2021/2022 Original Budget
490.000	Permit Fees	\$626,527	\$521,000	\$571,000
491.000	Tap-in Fees	500	1,200	1,200
493.000	Cab Card Fees	68,300	60,000	60,000
494.000	Review for Site Plan Fee	18,700	20,000	20,000
510.000	Grants	5,602,027	2,426,235	0
511.000	Federal Construction Projects	12,494,617	45,444,465	85,950,930
546.000	Michigan Transportation Fund	67,096,734	73,187,772	75,377,200
546.000	Build Michigan Fund	1,590,611	1,572,228	1,562,800
547.000	Local Bridge Fund	1,141,250	2,495,300	2,980,031
583.001	Cities	3,570,948	9,878,775	34,524,268
583.004	Townships	6,866,042	13,949,543	28,107,909
608.000	Subdivision Inspection	144,543	250,000	200,000
609.000	Driveway Installation Fees	11,000	15,000	15,000
610.000	Sundry Accounts Receivable	1,833,178	2,117,500	2,117,500
627.000	State Trunkline Maintenance	7,291,989	6,810,104	6,329,439
628.000	State Non-Maintenance	1,106,067	600,000	1,200,000
665.000	Interest Earned	1,675,989	1,115,017	515,338
669.000	Equipment Rental Credits	7,284,889	7,921,083	7,903,775
673.000	Sales of Property and Equipment	388,720	171,000	171,000
685.000	Accident Recovery	303,818	100,000	100,000
690.000	Depreciation Credits	4,235,154	4,962,110	5,240,400
	Miscellaneous Revenue	42,273	1,200	1,500
TOTAL REVEN	NUES - COUNTY ROAD FUND	\$123,393,876	\$173,619,532	\$252,949,290





Macomb County Department of Roads October 1, 2021 thru September 30, 2022



GENERAL APPROPRIATIONS ACT

AND, BE IT FURTHER RESOLVED, that expenditures for the fiscal year commencing October 1, 2021 and ending September 30, 2022 are hereby appropriated on an activity basis consistent with the Uniform Chart of Accounts prescribed by the Department of Treasury, as follows:

Activity No.	Description	2019/2020 Actual	2020/2021 Original Budget	2021/2022 Original Budget
451	Primary Road Construction	\$512,465	\$9,833,772	\$20,061,280
459	Primary Road Heavy Maintenance	40,016,107	67,715,950	161,589,543
460	Primary Bridge Heavy Maintenance	2,155,523	4,646,250	4,527,555
467	Primary Road Maintenance	10,749,420	14,480,000	14,960,500
481	Local Road Construction	96,291	3,244,043	4,123,074
489	Local Road Heavy Maintenance	6,752,217	9,564,107	20,216,061
490	Local Bridge Heavy Maintenance	726,201	1,095,000	2,250,603
494	Local Drain Assessment	105,076	150,000	200,000
497	Local Road Maintenance	6,228,919	8,497,000	8,483,000
505	Sundry Accounts Receivable	1,486,833	2,546,150	2,659,476
507	Subdivision Inspection	55,988	182,000	186,892
508	Permit Inspection	282,443	325,000	333,154
510	Direct Equipment	4,693,216	6,024,276	6,346,747
511	Indirect Equipment	1,831,506	2,720,750	2,758,865
512	Operating Equipment	579,510	1,245,000	1,245,000
513	Fringe Benefits	18,419,534	21,662,584	21,756,868
514	Distributive	7,160,758	7,692,123	8,032,398
515	Administration	(444,640)	597,596	639,710
516	Engineering	803,440	1,198,252	1,231,721
517	State Trunkline Maintenance	4,088,878	4,020,104	3,683,439
518	State Non-Maintenance	676,493	614,076	967,201
521	Non-Road Projects	119,028	6,156,362	2,511,510
901	Capital Outlay	9,919,860	5,581,630	5,383,920
906	Bond and Note Payments	16,845	13,517	11,338
TOTAL EXPE	NDITURES -			
(COUNTY ROAD FUND	\$117,031,910	\$179,805,541	\$294,159,855
BUDGETED N	JET REVENUES (EXPENDITURES)	\$6,361,965	(\$6,186,009)	(\$41,210,565)
	ED AVAILABLE FUND BALANCE DR YEARS - PROJECTED			111,282,782
PROJECTED F	FUND BALANCE AT END OF BUDGET Y	EAR		\$70,072,217

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GENERAL APPROPRIATIONS ACT

Activity No.	Description	2019/2020 Actual	2020/2021 Original Budget	2021/2022 Original Budget
677	General Liability Fund	228,389	250,000	250,000
TOTAL EXPEN C	DITURES - GENERAL LIABILITY FUND	228,389	250,000	250,000
665.000 699.000	Interest Earned Transfer-In Control	106,651 0	100,000	50,000
TOTAL REVEN	NUES - GENERAL LIABILITY FUND	106,651	100,000	50,000







FISCAL YEAR 2021 - 2022 STATISTICS

I - ROAD MILES

County-Wide Primary Mileage	432.19	miles
County-Wide Local Mileage	1,285.65	miles
State Trunkline Actual C/L Mileage	277.39	miles

II - FEDERAL AID MILES

Federal Aid Urban Primary Mileage	356.70	miles
Federal Aid Urban Local Mileage	1,077.66	miles

III - LANE MILES

State Trunkline Lane Miles Maintained by MCDOR	803.59	miles
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NUMBER OF STRUCTURES MAINTAINED by MACOMB COUNTY DEPARTMENT OF ROADS

Bridges	224	bridges
County Primary System	101	structures
County Local System	123	structures
Bridges Closed to Traffic	2	
Bridges Posted	24	

NUMBER OF DRAINAGE STRUCTURES 20' - 0" or LESS

Drainage Structures - Total	546
Drainage Structures Closed to Traffic	0
Drainage Structures Posted	0

EXTERNAL FORMULA DISTRIBUTION, ACT 51, P.A. 1951 AS AMENDED

Michigan Department of Transportation	39.10%
Counties	39.10%
Cities	21.80%



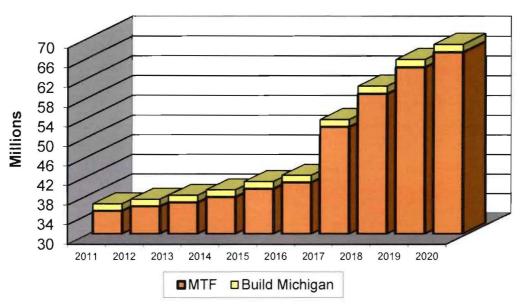




MICHIGAN TRANSPORTATION FUNDS

Fiscal Year 2021/2022 Budget

	Gas & Weight Funds	Build Michigan Funds
October	\$5,632,000	\$116,000
November	5,714,000	116,000
December	6,883,000	116,000
January	7,355,000	116,000
February	7,962,200	116,000
March	6,085,000	116,000
April	5,059,000	116,000
May	4,356,000	116,000
June	6,079,000	116,000
July	6,106,000	116,000
August	7,412,000	116,000
September	6,724,000	286,800
Engineering	10,000	0
	\$75,377,200	\$1,562,800



Actual Revenue for the last 10 years







SUMMARY

CAPITALIZED EQUIPMENT:

901	976.000	Numbered Equipment - Unlicensed	\$227,000
901	977.000	Shop Equipment	121,100
901	980.002	Computer Hardware	20,000
901	980.003	Computer Software	65,000
901	981.000	Numbered Equipment - Licensed	4,630,420
TOTAL CAPITALIZED EQUIPMENT			\$5,063,520

NON-CAPITALIZED EQUIPMENT:

728.050	Computer Equipment	\$48,660
728.060	Computer Software	5,000
728.090	Shop Equipment	8,200
780.000	Mechanic Tools	11,500
790.000	Small Road Tools	700
931.090	Bldg. Repair/Maintenance-Admin.	1,000
807.000	Computer Service Contracts	23,219
TOTAL NON-CAPITAL	98,279	

CAPITAL PROJECTS:

901	974.054	Land Improvements - Shelby	\$10,000
901	975.016	Buildings - Salt Storage Washington	40,000
901	975.041	Buildings - Shelby Salt Dome	80,000
901	975.053	Bldg. Improvements - Clinton	12,400
901	975.054	Bldg. Improvements - Shelby	10,000
901	975.xxx	Capital Improvements-Service Cntrs	100,000
901	975.074	Bldg. Improve Shelby Salt Dome	60,000
901	975.091	Bldg. Improvements - Admin. Bldg.	8,000

TOTAL CAPITAL PROJECTS

\$320,400

TOTAL EQUIPMENT and CAPITAL PROJECTS	\$5,482,199
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Account

		Trade-In	Cost	Number
	(02) FINANCE AND M.I.S.			
29	Desktops for Replacement		\$19,300	728.050
10	Laptops for Replacement		8,360	728.050
5	CAD Workstations		16,000	728.050
	Technology Contingency		20,000	980.002
	Storage Maintenance		8,219	807.000
	Precision Computer Solutions - Capitalized		65,000	980.003
	Precision Computer Solutions - Expensed		15,000	807.000
	Miscellaneous Desktop Software (Adobe, Visio, Etc.)		5,000	728.060
		_	\$156,879	
	<i>(04) ADMINISTRATION</i> Miscellaneous Office Equipment	-	\$5,000 \$5,000	728.050
~ 1	<i>(11) WASHINGTON TOWNSHIP SERVICE CENTER</i> Tandem Axle Dump Body	171509	\$181,980	981.000
	Wing Plow for above		15,000	981.000
	Underbody Blade for above		9,500	981.000
	Salt Spreader for above		4,500	981.000
	Rex Roth for above		13,500	981.000
	Road Temp Sensor for above		900	981.000
1	John Deere Motor Grader - 672G	621012	335,000	981.000
1	F-750 Cab & Chassis	100603	56,000	981.000
	55FT Aerial Boom and Chipper Box		98,000	981.000
1	F-150 4x4 Pick Up	125416	29,000	981.000
1	Cooltech Dual 2K AC Machine	1023	4,200	728.090
1	New Holland T5 Tractor	633003	100,000	981.000
	Side Flail For above		20,000	981.000
	Rear Flail for above	_	20,000	981.000
		_	\$887,580	







		Trade-In	Cost	Account Number
	(12) NEW HAVEN SERVICE CENTER			
1	John Deere Motor Grader 672-G	620810	\$335,000	981.000
1	Tandem Axle Dump Body	171109	185,000	981.000
	Wing Plow for above		17,000	981.000
	Underbody Blade for above		10,500	981.000
	Salt Spreader for above		5,500	981.000
	Rex Roth for above		15,000	981.000
	Road Temp Sensor for above		1,000	981.000
1	F-150 4x4 Pick Up	124817	29,000	981.000
1	Mechanical Sweeper	160210	270,000	981.000
	20 X		\$868,000	

(13) CLINTON TOWNSHIP SERVICE CENTER

~	L	Tandem Axle RDS Conveyor Body	170806 \$159,38	0 981.000
		Wing Plow for above	15,00	0 981.000
		Underbody Blade for above	9,50	0 981.000
		Salt Spreader for above	4,50	0 981.000
		Rex Roth for above	13,50	0 981.000
		RDS for above	34,00	0 981.000
		Pre-Wet System for above	4,50	0 981.000
		Road Temp Sensor for above	90	981.000
~	1	Tandem Axle Dump Body	178305 181,98	0 981.000
		Wing Plow for above	15,00	0 981.000
		Underbody Blade for above	9,50	0 981.000
		Salt Spreader for above	4,50	0 981.000
		Rex Roth for above	13,50	0 981.000
		Road Temp Sensor for above	90	0 981.000
~	1	New Holland T5 Tractor	6324 78,00	0 981.000
		Mid Mount Flail for above	19,00	0 981.000
		Rear Mount Flail for above	19,00	0 981.000
	1	F-250 4x4 Extended Cab Pick Up	129613 30,00	0 981.000
		Front V Plow for above	429613 12,00	0 981.000
	1	Tandem Axle Dump Body	171808 185,00	0 981.000
		Wing Plow for above	17,00	0 981.000
		Underbody Blade for above	10,50	0 981.000
		Salt Spreader for above	5,50	0 981.000
		Rex Roth for above	15,00	0 981.000
		Road Temp Sensor for above	1,00	0 981.000







Account

					Account
			Trade-In	Cost	Number
		(13) CLINTON TOWNSHIP SERVICE CENTER - (continued)			
	1	Tandem Axle Dump Body	174311	185,000	981.000
		Wing Plow for above		17,000	981.000
		Underbody Blade for above		10,500	981.000
		Salt Spreader for above		5,500	981.000
		Rex Roth for above		15,000	981.000
		Road Temp Sensor for above		1,000	981.000
	1	F450 4x4 with Chipper Box and Toolboxes	1006	76,000	981.000
		Front Plow for above		10,000	981.000
	1	John Deere Front End Loader 724P	6507	300,000	981.000
	2	Trailer Mounted Arrowboards	TBD	17,000	981.000
			_	\$1,495,660	
		(14) SHELBY TOWNSHIP SERVICE CENTER			
~	1	Tandem Axle RDS Conveyor Body	1747	\$159,380	981.000
		Wing Plow for above		15,000	981.000
		UB Blade for above		9,500	981.000
		Salt Spreader for above		4,500	981.000
		Rex Roth for above		13,500	981.000
		RDS for above		34,000	981.000
		Pre-Wet System for above		4,500	981.000
		Road Temp Sensor for above		900	981.000
~	1	Single Axle RDS Body	154606	127,000	981.000
		RDS for above		34,000	981.000
		Underbody Blade for above		9,500	981.000
		Rex Roth for above		13,500	981.000
		Sander/Auger for above		4,200	981.000
		Road Temp Sensor for above		900	981.000
	1	Argo Chem Anti Delce Tank PH5E		15,000	976.000
	1	F.450 12FT Stake Body	- 103403	62,000	981.000
	1	F-450 Single Axle Dump	150108	65,000	981.000
		Front Plow for above	450108	10,000	981.000
	1	F-450 Single Axle Dump	150208	65,000	981.000
		Front Plow for above	450208	10,000	981.000
	1	New Holland T5 Tractor	6301	100,000	981.000
		Side Flail For above		20,000	981.000
		Rear Flail for above		20,000	981.000
	1	Morbark Single Axle Chipper		80,000	981.000
	1	John Deere Skid Steer 333G		60,000	981.000
		Concrete Planner for above		22,000	981.000
		Stump Grinder for above		19,000	981.000
		HYD Hammer for above	_	14,000	981.000
			_	\$992,380	







		Trade-In	Cost	Account Number
~ 4 3 1	 (15) VEHICLE MAINTENANCE Generator for New Building Shop Tools Noregon J Pro Diagnostic Kits (windows 10 on laptop - all Service Centers) EZ Tech Diagnostic Kits for Navistar (for Service Centers 1, 2 & 4) Rotary Column Lifts 1 set 4 		\$150,000 11,500 27,200 20,400 36,000 \$245,100	976.000 780.000 977.000 977.000 977.000
1	<i>(21) TRAFFIC</i> Distance Measuring Instrument (DMI) for pickup 128018		\$700 \$700	790.000
1 1 1	 (22) ELECTRICAL F-550 Cab & Chassis, Service Body 29 Foot Duralift Boom w/Single Person Bucket for above 3000 Watt Power Inverter instead of Generator for above F550 Cab & Chassis, Fiberglass Service Body, 40' Duralift Insulated Boom and Bucket with Material Handler, 3000 Watt Inverter instead of Generator 7'x12' High Side Dual Axle Dump Trailer 14,000 lb GVR 	100912/180912 676412 108610/188610 676510 6231	\$112,000 145,000 <u>11,000</u> \$268,000	981.000 981.000 981.000
1 1 1	<i>(23) SIGN</i> TL3 Scorpion Crash Attenuator (freeway) TL2 Scorpion Crash Attenuator (primary) Crew Cab Stake Truck with Lift Gate, Arrow Board & Beacons	103513	\$25,000 17,000 80,000 \$122,000	976.000 976.000 981.000







		Trade-In	Cost	Account Number
1 1 1	<i>(24) ENGINEERING</i> Concrete Compression Machine (250k Machine w/VFD Integrated Package HMA/Soils Oven (OV-5002) Pick Up Truck 4x4 with Light Bar and Tool Box	123511	\$12,500 4,000 29,000 \$45,500	977.000 728.090 981.000
1	<i>(31) PURCHASING</i> Emergency Fund Hydraulic Chain Cutter		\$40,000 	976/977 977.000
j	<i>(32) PERMITS & LOCAL ROADS</i> F-150 Pick-up Truck 4X4	125216	\$29,000 \$29,000	981.000
~	TOTAL CARRY-OVERS FROM 2020/2021 BUDGET TOTAL NEW REQUESTS FOR 2021/2022 BUDGET		\$1,388,420 3,772,379	
	TOTAL FIXED ASSETS		\$5,160,799	







		Trade-In	Cost	Account Number
	CAPITAL PROJECTS Boiler Chemical Filter for Administration Building		1 0 0 0	
	Administration Shed Garage Door (with installation fee)		\$8,000	975.091
~	Repair/Replace Roof on Salt Barn at Washington Service Center		1,000	931.090
~	Repair & Paint Salt Dome at Shelby Service Center		40,000	975.016
~			60,000	975.074
	Replace Gate Openers - Front & Middle Gates with Key Pad - Shelby SC		10,000	974.054
~	Metal Roof & Gutter Repairs on Parking & Mechanic Garage at Shelby SC		10,000	975.054
~	Asphalt Pad for New Salt Dome at Shelby Service Center		80,000	975.041
	Replace Carpet with Porcelain Tile Two (2) Offices 400 sq ft at Stockroom		6,400	975.053
	Repair Heat Element West Side of Warehouse at Stockroom		6,000	975.053
	Capital Improvements for all Service Centers		100,000	975.XXX
		_	\$321,400	

TOTAL FIXED ASSETS AND CAPITAL PROJECTS FOR 2021/2022

\$5,482,199







MEMBERSHIPS and CONFERENCES FISCAL YEAR 2021/2022

SUMMARY

	Memberships	Conferences
FINANCE & I.T.	\$930	\$20,260
HUMAN RESOURCES	219	0
ADMINISTRATION	2,340	3,525
WASHINGTON TOWNSHIP SERVICE CENTER	250	0
NEW HAVEN SERVICE CENTER	250	0
CLINTON TOWNSHIP SERVICE CENTER	250	0
SHELBY TOWNSHIP SERVICE CENTER	250	0
VEHICLE MAINTENANCE	250	0
SUPERINTENDENT'S OFFICE	250	0
RIGHT OF WAY	300	5,280
TRAFFIC	2,125	13,650
ELECTRICAL	830	5,500
SIGN	330	4,000
ENGINEERING	700	24,175
STOCKROOM	500	2,200
PERMITS	3,780	3,500
AGENCY	86,200	0
GRAND TOTAL	\$99,754	\$82,090







	Employee	Membership	<u>Conference</u>	<u>Location</u>
(02) FINANCE & I.T.				
Government Finance Officers Association	M. Mykytiak	\$550	\$0	
Michigan Government Finance Officers Association	M. Mykytiak	350	500	
County Road Association of Michigan Conferences	M. Mykytiak	0	600	TBD
Southern Michigan Road Comm. Finance Association	M. Mykytiak	30	60	Various
Continuing Education	Finance Staff	0	500	
End User Desktop Training	MCDR Computer Users	0	2,500	
CAD/GIS Training	CAD/GIS Users	0	6,000	
Technical Training	MCDR IT Staff	0	10,000	
Precision Users Self Help Meetings	Precision Users	0	100	Various
		\$930	\$20,260	

(03) HUMAN RESOURCES

Society for Human Resource Management	S. Ling	\$219	\$0
		\$219	\$0

(04) ADMINISTRATION

APA - American Planning Association	J. Crumm	\$375	\$0	
APA - Michigan Chapter	J. Crumm	135	0	
American Institute of Certified Planners	J. Crumm	240	0	
APA Michigan Conference	J. Crumm	0	975	TBD
ASCE	B. Santo	325	0	
NSPE	B. Santo	350	0	
NAFA (Fleet Management Association)	N. Stanuch	500	600	
Public Relations Society of America	E. Dimoff	340	1,150	
MPPOA	N. Stanuch	75	0	
Continuing Education	Administration Employees	0	800	
		\$2,340	\$3,525	







	Employee	Membership	<u>Conference</u>	<u>Location</u>
(11) WASHINGTON TOWNSHIP SERVICE CENTER APWA - Membership	J. Graber	\$250 \$250	\$0 \$0	
(12) NEW HAVEN SERVICE CENTER APWA - Membership	K. Paige	\$250 \$250	\$0 \$0	
(13) CLINTON TOWNSHIP SERVICE CENTER APWA - Membership	S. Baurhenn	\$250 \$250	\$0 \$0	
<i>(14) SHELBY TOWNSHIP SERVICE CENTER</i> APWA - Membership	D. DiCicco	\$250 \$250	\$0 \$0	
(15) VEHICLE MAINTENANCE APWA - Membership	G. Zukowski	\$250 \$250	\$0 \$0	
(16) SUPERINTENDENT'S OFFICE APWA - Membership	L. Ciavatta	\$250 \$250	\$0 \$0	







	Employee	<u>Membership</u>	Conference	Location
(18) RIGHT OF WAY				
Broker Continuing Education	ROW Personnel	\$0	\$80	
Broker License Renewal *	ROW Personnel	0	0	
IRWA - Membership	ROW Personnel	300	0	
IRWA - General Meetings	ROW Personnel	0	300	
IRWA - Fall Seminar	ROW Personnel	0	800	TBD
IRWA - Miscellaneous Classes	ROW Personnel	0	1,100	
Miscellaneous Classes	ROW Personnel	0	3,000	
		\$300	\$5,280	
*Broker License Renewal (3 year cycle) due 2024				
(21) TRAFFIC				
American Society of Civil Engineers	A. Merchant	\$275	\$0	
ITE - Institute of Transportation Engineers	Traffic Employees	1,250	3,900	TBD
Traffic Safety Summit	Traffic Employees	0	1,800	East Lansing
Intelligent Transportation Society of Michigan	Traffic Employees	0	2,500	TBD
Electrical License Renewal	Webb/Ferrell/Foate	250	0	
Traffic Webinars	Traffic Employees	0	500	
PE License Renewal	Abraham/Merchant/ Silver	240	0	
NEC Code Update Class	Webb/Ferrell/Foate	0	750	
Electrical Training Classes	Ferrell/Foate	0	1,000	
IMSA - International Municipal Signal Association	Traffic Employees	110	3,200	TBD
		\$2,125	\$13,650	
(22) ELECTRICAL				
IMSA - International Municipal Signal Association	Electrical Employees	\$330	\$3,000	
NEC Code Update Class	Electrical Employees	0	2,500	
Electrical License Renewal	Electrical Employees	500	0	
		\$830	\$5,500	







	Employee	<u>Membership</u>	<u>Conference</u>	<u>Location</u>
<i>(23) SIGN DEPARTMENT</i> IMSA - International Municipal Signal Association	Sign Employees	\$330 \$330	\$4,000 \$4,000	
(24) ENGINEERING				
Contract Management Conference	K. Stefanski	\$0	\$300	
CRA Conferences	S. Wanagat	0	600	
CSWO/SESC Certification	Cooper	0	225	
Michigan Concrete Association - Level I	Papas, Prize, Florka, Bucholtz,Tomassi	0	6,800	Lansing
Michigan Concrete Association - Level II	Prevost, Pilgrim, Schrade	0	4,800	
Hot Mix Asphalt - Paving Operations	Holmbert, Papas, Tomassi	0	3,300	Big Rapids
Density Control Technology	Schrade, Malburg, Tomassi	0	2,850	Big Rapids
Aggregate Inspection - Level I	Schrade		1,400	
Michigan Bridge Conference	Wanagat, Newton	0	1,200	Ypsilanti
Michigan Society of Professional Surveyors	Pisarcik, Dubay	240	600	TBD
Professional Engineer License Renewal	Wanagat, Kniga	160	0	
American Society of Civil Engineers	J. Armbruster	300	0	
County Engineers Workshop	S. Wanagat	0	600	TBD
Continuing Education	Engineers	0	1,500	
		\$700	\$24,175	







	Employee	<u>Membership</u>	<u>Conference</u>	Location
(31) PURCHASING/STOCKROOM				
Michigan Public Purchasing Officers Association	Strizic/Giedrocz	\$500	\$1,100	Various
National Institute of Governmental Purchasing Training	Purchasing Staff	0	650	
мрроа	Purchasing Staff	0	450	Various
		\$500	\$2,200	
(32) PERMITS				
Michigan Concrete Association - Level 1	Vacant EA1	\$0	\$1,500	
Michigan Density Control Certification	Vacant EA1	0	1,500	
PUSH Meetings (Precision Training)	L. Smith/N. Staelgraeve	0	500	
Michigan Concrete Association	Bush, Harlow, Devos, Tersigni, Hofman	2,875	0	
Society of Detroit Engineers	S. Kahlon	150	0	
American Society of Civil Engineers	S. Kahlon	325	0	
National Society of Professional Engineers	S. Kahlon	350	0	
Department of Licensing and Regulatory Affairs	S. Kahlon	80	0	
		\$3,780	\$3,500	
AGENCY				
Weighmaster		\$20,000	\$0	

Intelligent Transportation Society of Michigan	400	0
MI Deal	700	0
OPIS	600	0
National Institute of Governmental Purchasing	500	0
County Road Association of Michigan	54,000	0
Miss Dig Fee	10,000	0
Weighmaster	\$20,000	\$O

TOTALS	\$99,754	\$82,090







Service or Item Requested	Amount Requested	Total
(02) FINANCE & IT		
Audit Fee	\$30,000	
Checks, Forms, Folders, Envelopes, Binders, Labels etc.	5,000	
Actuarial Fee - OPEB	28,000	
Actuarial Fee - GASB 74/75	11,000	
Actuarial Fee - PA 202 Reporting	3,500	
General Liability Actuarial	14,000	
Contract Labor - Payroll Training	20,000	
Miscellaneous - Maintenance	5,000	
Maintenance - Cisco Hardware	5,000	
Maintenance - General PC & Peripherals	25,000	
Maintenance - Formax Folder / Sealer Machine	900	
Service - Bentley Software Support (Engineering)	50,000	
Service - AT&T Internet Service Provider (ISP)	4,500	
Service - AT&T ASE Fiber Network	31,000	
Service - Tungsten Content Manager Software Support	5,000	
Service - Fuel Master Fuel System Support	2,300	
Service - GIS Software Maintenance (ArcEditor - 6 licenses)	5,200	
Service - County Charge-Backs for IT Services	50,000	
(Continued)		







Service or Item Requested	Amount Requested	Total
(02) FINANCE & IT - (Concluded)		
Service - Office 365 GCC E3 - (194 licenses)	38,460	
Service - Windows 10 - (194 licenses)	7,116	
Service - Windows Server User CAL - (194 licenses)	2,842	
Service - Msft SQL Standard Core MCDRSQL1 - (1 license)	581	
Service - Msft SQL Standard Core Centracs - (4 licenses)	12,865	
Service - Msft Exchange Server Enterprise - (4 licenses)	2,622	
Service - CrowdStrike Anit-Virus (198 licenses)	2,000	
Service - Infrastructure Consumption	16,000	
(03) HUMAN RESOURCES		\$377,88
(03) HUMAN RESOURCES		
CDL Reimbursement	\$2,500	
Mileage Reimbursement	300	
Training	5,000	
Surveillance	5,000	
Arbitration Fees	10,000	
Independent Medical Exams	8,000	
Legal Fees	70,000	
Random Drug Testing	15,000	
Pre-employment Physicals	5,000	
COVID-19 Response Expenses	5,000	







Service or Item Requested	Amount Requested	Total
(04) ADMINISTRATION		
Admin Building Cleaning (Janitorial, Carpet, Window, etc.)	\$4,000	
Lobbyist	20,000	
Accurate Alarm (Nightwatch)	18,000	
Radio User Fees - 800Mzh	20,000	
Audio Sentry Alarm	3,800	
117 Building Maintenance	40,000	
DPW Projects	200,000	
Asset Management Program (HNTB Consultant)	1,250,000	
Legal Matters/Settlements/Deductibles/Moving Road Claims	120,000	
Postage/Meter	20,000	
Phragmites Management	35,000	
Consulting Services (Master Plan, Asset Mgmt., Safety)	50,000	
Landscaping - Administration Building	2,000	
MDEQ UST Registrations	1,500	
MDEQ Testing/Reports for Clean up at SC3 & Other Locations	50,000	
MDEQ Annual & Quarterly Testing/Repairs for UST/Fuel Sys	25,000	
		\$1,859,300







Service or Item Requested	Amount Requested	Total
(15) VEHICLE MAINTENANCE		
All Data Online Repair Manuals - All Service Centers	\$3,000	
Noregon System JPRO - Annual All Service Centers	9,000	
Allison DOC Premium - Annual All Service Centers	7,500	
Sandblast and Paint Trucks & Equipment	15,000	
Contract out Major Repairs on Equipment	100,000	
Undercoat New Equipment	5,000	
Motorola Radio Maintenance	20,000	
Bosch Evolve Subscription	900	
		\$160,400







Service or Item Requested	Amount Requested	Total
(16) SUPERINTENDENTS OFFICE		
Emergency Road Repairs	\$130,000	
DEQ Compliance Fees at MCDOR Facilities	50,000	
MIOSHA Inspection & Certification at MCDOR Facilities	50,000	
Deicing Chemicals for Winter Maintenance	50,000	
Landfill Fees	80,000	
Software Maintenance Upgrades & Equipment for GPS Systems	125,000	
Safety and Training	25,000	
Snow/Patching/Mowing Contracts-Municipalities & Contractors		
Contracts Mowing - Primary	170,000	
Contracts Snow - Primary	34,500	
Contracts Sweeping - Primary	14,000	
DPW Patching - Primary	20,000	
DPW Patching - Local	25,000	
DPW Snow - Local	25,000	
Contractors Snow - Local	125,000	
Tree Removal Contract	120,000	
Contract Labor	1,000	
Utility Damage during Mowing Operations	15,000	
Phragmites Management	5,000	
Emergency Repairs at Service Centers	120,000	
MCDOR Drainage Easement, Seawall Repair	45,000	
		\$1,229,50







Service or Item Requested	Amount Requested	Total
(18) RIGHT OF WAY		
Land Access Subscription	\$1,700	
Contract Labor	75,000	
Condemnation Awards	400,000	
		\$476,700
(21) TRAFFIC		
Communication Pole Equipment Maintenance	\$30,000	
Controller Software Upgrades and Maintenance	60,000	
Stockroom Material and Loaners for ITS Maintenance	60,000	
Connected Vehicle - Vehicle Units, Software, RSUs, OBU's	150,000	
Office Chairs	600	
Updates to the Precision Traffic Estimating Module	3,500	
Two Cubicles (Electronics Tech, Carpet, Dividers & Desks)	8,000	
		\$312,100







Service or Item Requested	Amount Requested	Total
(22) ELECTRICAL		
Replace/Upgrades to Storm Water Pump Stations (6 locations)	\$600,000	
Emergency Repairs to Storm Water Pump Stations	30,000	
Anchor Rod Pulling Eye	300	
Single Sheave Pulleys	800	
Pallet Style Storage/Shelving Units (4'x8'x12')	3,000	
Calibration of Testing Equipment	5,000	
		\$639,100
(23) SIGN DEPARTMENT		
Breakroom Chairs	\$1,200	
Office Chairs	\$600	
Phoenix 350 Temporary Sign Stands (4)	600	
Video Projector	300	
Jet 100CFM Air Filtration System	500	
Mimaki Sign Printer - Annual Maintenance	3,500	
		\$6,700







Service or Item Requested	Amount Requested	Total
(24) ENGINEERING		
Subscriptions & Publications	\$1,000	
Cell Phone GPS (Survey Equipment)	1,000	
Miscellaneous Lab/Testing Equipment Service/Calibration	5,000	
GPS Firmware Maintenance	7,500	
NRC Nuclear License for Troxler Gauges	12,000	
Dosimeter Badge Service Contract	4,000	
Hazmat Training & Certifications	1,000	
Miscellaneous Environmental Services	20,000	
Miscellaneous Geotechnical Services	20,000	
Construction Stakes	5,000	
Miscellaneous Bridge and Road Design Contracts	50,000	
Miscellaneous CAD Consulting Services	10,000	
GIS Certification Services	5,000	
KIP Maintenance Contract	6,000	
Miscellaneous Lab Equipment	15,000	
Miscellaneous Field Equipment	6,000	
Monument Boxes	2,000	
Safety and Training	10,000	
		\$180,500







Service or Item Requested	Amount Requested	Total
(31) PURCHASING/STOCKROOM		
Inventory Storage	\$1,000	
Emergency Fund - Non-Capital Equipment & Purchases	20,000	
Chairs	1,000	
		\$22,000
(32) PERMITS		
Laminator Machine Maintenance Contract	\$700	
Printing - Miscellaneous Forms, Permits, Daily Cards etc.	4,000	
Safety and Training	5,000	
		\$9,700

GRAND TOTAL	\$5,399,686
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ROAD MAINTENANCE COSTS FISCAL YEAR 2021/2022

SUMMARY

TOTAL FIELD BUDGET for:

	Primary Road	Local Road	State Trunkline	Totals
MAINTENANCE	\$7,643,000	\$7,490,000	\$3,036,939	\$18,169,939
TRAFFIC	2,388,000	668,000	971,500	4,027,500
SUPERVISION	625,000	325,000	275,000	1,225,000
TOTAL COUNTY	\$10,656,000	\$8,483,000	\$4,283,439	\$23,422,439
Total Fringe Benefits	3,300,000	2,500,000	1,400,000	7,200,000
SUBTOTAL	\$13,956,000	\$10,983,000	\$5,683,439	\$30,622,439
Total Overhead	2,512,080	1,976,940	1,246,000	5,735,020
GRAND TOTAL	\$16,468,080	\$12,959,940	\$6,929,439	\$36,357,459







	Activity Code & Description	Primary Road	Local Road	State Trunkline	Totals
M100	Blow-up Repair	0	0	0	0
M101	Joint & Crack Filling	160,000	140,000	5,000	305,000
M102	Replace Concrete Pavement	100,000	400,000	5,280	505,280
M103	Patrol Patching	1,600,000	650,000	0	2,250,000
M104	Hot Patching	225,000	120,000	22,000	367,000
M105	0	20,000	25,000	1,000	46,000
M107	-	70,000	900,000	0	970,000
M108	Patch Gravel Surface	90,000	1,400,000	0	1,490,000
M109	Surface Maintenance	20,000	80,000	22,000	122,000
M110	State Trunkline/Freeway Patching	0	0	842,000	842,000
109	SURFACE MAINTENANCE	\$2,285,000	\$3,715,000	\$897,280	\$6,897,280
M120	Dust Layer Surface	25,000	480,000	0	505,000
	CHLORIDE APPLICATION	\$25,000	\$480,000	\$0	\$505,000
M130	Blading Shoulders	310,000	25,000	10,000	345,000
M131	Berm Removal	40,000	50,000	50,000	140,000
M132	Patch Gravel Shoulder	180,000	25,000	10,000	215,000
119	SHOULDER MAINTENANCE	\$530,000	\$100,000	\$70,000	\$700,000
M140	Tree Removal	40,000	50,000	11,000	101,000
M141	Tree/Brush Trimming	70,000	120,000	11,000	201,000
M142		5,000	5,000	0	10,000
M143	Log Removal	2,000	20,000	0	22,000
M144	Tree Removal Contracts	40,000	80,000	0	120,000
121	TREES & SHRUBS	\$157,000	\$275,000	\$22,000	\$454,000
M150	Clean Catch Basins	50,000	35,000	3,000	88,000
M151	Repair Catch Basins	100,000	200,000	10,000	310,000
M152	Build Catch Basins	0	0	0	0
M153	Ditch Cleanout	120,000	350,000	12,000	482,000
M154	Powerflushing Culverts	50,000	150,000	10,000	210,000
M155	Culvert/Underdrain Maintenance	120,000	400,000	10,000	530,000
M156	Erosion Control	75,000	50,000	20,000	145,000
M157	Drainage Contracts	0	0	0	0
122	DRAINAGE STRUCTURES	\$515,000	\$1,185,000	\$65,000	\$1,765,000







	Activity Code & Description	Primary Road	Local Road	State Trunkline	Totals
M160	Full Width Litter Pickup	0	0	90,000	90,000
M161	Patrol Litter Pickup	25,000	10,000	20,000	55,000
M162	Litter Hauling Contract	7,000	7,000	15,000	29,000
124	ROADSIDE CLEANUP	\$32,000	\$17,000	\$125,000	\$174,000
M170	Swath Mowing	350,000	210,000	34,000	594,000
M171	Mowing Contracts	180,000	0	0	180,000
M172	Weedspray Contracts	0	0	0	0
126	GRASS AND WEED CONTROL	\$530,000	\$210,000	\$34,000	\$774,000
M180	Approach Sweeping	3,000	3,000	1,000	7,000
M181	Curb Sweeping	420,000	100,000	1,000	521,000
M182	Freeway Sweeping	0	0	20,000	20,000
M183	Sweeping Contracts	15,000	0	0	15,000
M184	Sweeping Disposal	80,000	10,000	3,000	93,000
132	SWEEPING AND FLUSHING	\$518,000	\$113,000	\$25,000	\$656,000
M190	R.O.W. Fence Repair	0	0	15,000	15,000
137	R.O.W. FENCE REPAIR	\$0	\$0	\$15,000	\$15,000
M200	Other Routine Maintenance	80,000	80,000	45,000	205,000
139	OTHER ROUTINE MAINTENANCE	\$80,000	\$80,000	\$45,000	\$205,000
M210	Maintain Snow Route RT	800,000	100,000	402,000	1,302,000
M211	Maintain Snow Route OT	1,900,000	200,000	1,000,000	3,100,000
M212	Scrape/Salt Non-Route Road RT	20,000	700,000	0	720,000
M213	Scrape/Salt Non-Route Road OT	5,000	250,000	0	255,000
M214	Erect/Remove Snow Fence	100,000	3,000	8,322	111,322
M215	Winter Maintenance Contract	40,000	0	0	40,000
M216	Anti-Ice System	0	0	0	0
M220	Night Patrol	40,000	0	92,019	132,019
M230	Other Winter Maintenance	6,000	2,000	161,318	169,318
141	SNOW AND ICE REMOVAL	\$2,911,000	\$1,255,000	\$1,663,659	\$5,829,659







	Activity Code & Description	Primary Road	Local Road	State Trunkline	Totals
M240	Bridge Repair	10,000	10,000	0	20,000
151	STRUCTURE MAINTENANCE	\$10,000	\$10,000	\$0	\$20,000
M250	Structure Painting	0	0	0	0
152	STRUCTURE PAINTING	\$0	\$0	\$0	\$0
M280	Emergency Road Maintenance	50,000	50,000	75,000	175,000
190	EMERGENCY ROAD MAINTENANCE	\$50,000	\$50,000	\$75,000	\$175,000
TOTAL	FIELD BUDGET for MAINTENANCE	\$7,643,000	\$7,490,000	\$3,036,939	\$18,169,939
M500	Replace Steel Beam Guardrail RT	345,000	165,000	85,000	595,000
M501	Replace Steel Beam Guardrail OT	12,000	12,000	5,000	29,000
M502	Replace Cable Barrier RT	0	0	5,000	5,000
M503	Replace Cable Barrier OT	0	0	2,500	2,500
130	GUARDRAIL AND POST	\$357,000	\$177,000	\$97,500	\$631,500
M542	Pumphouse Energy	6,000	0	0	6,000
153	PUMPHOUSE ENERGY	\$6,000	\$0	\$0	\$6,000
M510	Sign Maintenance RT	230,000	215,000	155,000	600,000
M511		40,000	30,000	45,000	115,000
M512	-	0	0	0	0
M513	Sign Shop Work OT	0	0	0	0
M514		1,000	0	0	1,000
M515		0	0	0	0
M516		220,000	0	60,000	280,000
160	TRAFFIC SIGNS	\$491,000	\$245,000	\$260,000	\$996,000







	Activity Code & Description	Primary Road	Local Road	State Trunkline	Totals
M520	Relamp Electrical Device 3 Man	80,000	0	90,000	170,000
M521	Relamp Electrical Device 2 Man	30,000	0	30,000	60,000
M522		60,000	0	45,000	105,000
M523	Signal Trouble Call OT	100,000	0	90,000	190,000
M524	Controller Maintenance	80,000	0	75,000	155,000
M527	Signal Operations Adjustment	5,000	0	20,000	25,000
M528	Remove/Replace Signals	20,000	0	5,000	25,000
M529	Emergency Signal Remove/Repair RT	10,000	0	75,000	85,000
M530	Emergency Signal Remove/Repair OT	85,000	0	160,000	245,000
M531	Install Signals	10,000	0	10,000	20,000
M533	Signal Modernization	2,000	0	0	2,000
M540	Signal Energy	305,000	30,000	1,000	336,000
161	TRAFFIC SIGNALS	\$787,000	\$30,000	\$601,000	\$1,418,000
M550	Traffic Counter Maintenance	80,000	40,000	0	120,000
239	TRAFFIC COUNTER MAINTENANCE	\$80,000	\$40,000	\$0	\$120,000
M560	Paint Guidelines RT	425,000	110,000	0	535,000
M561	Paint Guidelines OT	13,000	3,000	0	16,000
M562	Pavement Messages RT	213,000	57,000	0	270,000
M563	Pavement Messages OT	13,000	4,000	0	17,000
162	PAVEMENT MARKINGS	\$664,000	\$174,000	\$0	\$838,000
M570	Delineator Maintenance RT	3,000	2,000	7,000	12,000
M571	Delineator Maintenance OT	0	0	0	0
164	DELINEATOR MAINTENANCE	\$3,000	\$2,000	\$7,000	\$12,000
M580	Attenuator Maintenance RT	0	0	5,000	5,000
M581	Attenuator Maintenance OT	0	0	1,000	1,000
165	ATTENUATOR MAINTENANCE	\$0	\$0	\$6,000	\$6,000
TOTAL	FIELD BUDGET for TRAFFIC	\$2,388,000	\$668,000	\$971,500	\$4,027,500







	Design	R.O.W	Construction Engineering	Contract	Sign & Signal	Totals & Financing	
<u>W. O.</u> Bridge C	<u>Callens Road at Sa</u> CPM	alt River					
НМ	10,800		16,200	108,000		135,000	в
				LO	CAL BRIDGE	86,400	
					MCDR	48,600	
<u>W. O.</u> Resurfac	Capac between Irv :ing	<u>vin and Gould</u>					
НМ	30,713		46,069	307,127		383,909	
					STL	306,000	
				A	RMADA TWP	38,954	
·					MCDR	38,955	
<u>W. O.</u> Rehabili	<u>Garfield Road - 17</u> tation	Mile Road to (Canal - (carry-over)				
НМ			585,000	3,900,000		4,485,000	
				S	TBG URBAN	3,120,000	
				CI	INTON TWP	682,500	
					MCDR	682,500	
	Harper Avenue at Rehabilitation	<u>Clinton River S</u>	Spillway				
НМ			202,500	1,350,000		1,552,500	в
					MCS	1,080,000	
					MCDR	472,500	







-	Design	R.O.W	Construction Engineering	Contract	Sign & Signal	Totals & Financing
		lile <u>Road to 11 N</u>	<u>1ile Road - (carry-ov</u>	er)		
Rehabilite	ition					
НМ			360,000	2,400,000		2,760,000
					ACC	2,391,537
					WARREN	92,116
					ROSEVILLE	92,116
					MCDR	184,231
<u>W. O. F</u> Rehabilita	layes Road - 18 M ation	lile Road to M-59)			
НМ	417,330		625,995	4,173,303		5,216,628
					STU/EDC	2,222,597
				CI	INTON TWP	748,508
				STERLIN	NG HEIGHTS	748,508
					MCDR	1,497,015
<u>W. O. Ke</u> Reconstrue	elly Road - 14 Mil ction	e Road to 15 Mi	le Road			
НМ	425,000	85,000	637,500	4,250,000		5,397,500
				SEN	ATOR LEVIN	3,500,000
				CI	INTON TWP	474,375
					FRASER	474,375
					MCDR	948,750







	Design	R.O.W	Construction Engineering	Contract	Sign & Signal	Totals & Financing
<u>W.O.</u>	<u>Metropolitan Park</u>	way - Andrew D	rive to Dodge Park F	<u> Road - (carry-over)</u>		
Rehabilit	ation					
НМ			482,662	3,217,746		3,700,408
					ACC STU	1,967,650
				STERLIN	NG HEIGHTS	866,379
					MCDR	866,379
<u>W. O. N</u> Rehabilit	<u>Metropolitan Park</u> ation	way - Ryan to De	<u>equindre</u>			
НМ	400,000		600,000	4,000,000		5,000,000
				STERLI	NG HEIGHTS	2,500,000
					MCDR	2,500,000
<u>W. O. N</u> Reconstru		59 to 15 1/2 Mil	<u>e Road (NC 6% - H</u>	<u>M 94%)</u>		
NC	410,784		410,784	5,134,800		5,956,368
HM	6,435,616		6,435,616	80,445,200		93,316,432
Total	6,846,400		6,846,400	85,580,000		99,272,800
				IN	IFRA GRANT	51,348,000
				STERLIN	NG HEIGHTS	16,054,808
					WARREN	7,907,592
					MCDR	23,962,400







	Design	R.O.W	Construction Engineering	Contract	Sign & Signal	Totals & Financing
	<u>New Haven Road</u> eplacement	<u>at East Branch (</u>	<u> Coon Creek - (carry-c</u>	over)		
НМ	42,450		254,700	1,698,000		1,995,150
				LO	CAL BRIDGE	1,358,400
					MCDR	636,750
<u>W. O. (</u> Rehabilit	Quinn Road - M-3 ation	<u>to Harper Aven</u>	uue			
НМ	140,205		210,307	1,402,047		1,752,559
				CL	INTON T W P	876,279
					MCDR	876,280
Reconstri NC HM	<u>Romeo Plank - No</u> uct and Widen 720,000 480,000 1,200,000	<u>rth of 21 Mile R</u> 2,220,000 1,480,000 3,700,000	Coad to 23 Mile Road	d (NC 60% - HM 4	0%) - (carry-over)	2,940,000 1,960,000 4,900,000
Reconstra NC HM	uct and Widen 720,000 480,000	2,220,000 1,480,000	load to 23 Mile Road		<u>0%) - (carry-over)</u> ACOMB TWP	1,960,000
Reconstri NC HM	uct and Widen 720,000 480,000	2,220,000 1,480,000	load to 23 Mile Road			1,960,000 4,900,000
Reconstru NC HM Total	uct and Widen 720,000 480,000	2,220,000 1,480,000 3,700,000	Load to 23 Mile Road		ACOMB TWP	1,960,000 4,900,000 2,450,000
Reconstru NC HM Total <u>W. O. S</u>	uct and Widen 720,000 480,000 1,200,000	2,220,000 1,480,000 3,700,000	Coad to 23 Mile Road		ACOMB TWP	1,960,000 4,900,000 2,450,000
Reconstru NC HM Total <u>W. O. S</u>	uct and Widen 720,000 480,000 1,200,000	2,220,000 1,480,000 3,700,000	Coad to 23 Mile Road		ACOMB TWP	1,960,000 4,900,000 2,450,000







	Design	R.O.W	Construction Engineering	Contract	Sign & Signal	Totals & Financing
	Wolcott Road at T Ceplacement	upper Brook Dra	<u>in - (carry-over)</u>			
НМ	45,000		67,500	450,000		562,500
					MCDR	562,500
W. O. 1 Rehabilita	<u>4 Mile Road - Hay</u> ation	<u>ves to Hoover</u>				
НМ	620,000		930,000	6,200,000		7,750,000
					WARREN	1,937,500
				STERLIN	IG HEIGHTS	1,937,500
				OILKLIN		
					MCDR	
W. O. 1	4 Mile Road - Kel	ly Road to City L	.imits			
	<u>4 Mile Road - Kel</u> ation	ly Road to City L	imits			
Rehabilita		ly Road to City L 105,000	<u>imits</u> 787,500	5,250,000		
Rehabilita	ation			5,250,000		3,875,000
Rehabilita	ation			5,250,000	MCDR	3,875,000
Rehabilita	ation			5,250,000 SENA	MCDR	3,875,000 6,667,500 3,100,000
Rehabilita	ation			5,250,000 SENA	MCDR ATOR LEVIN ROSEVILLE	3,875,000 6,667,500 3,100,000 1,266,875 1,266,875
Rehabilita HM W. O. 2	ation 525,000 1 Mile Road at M	105,000	787,500	5,250,000 SENA	MCDR ATOR LEVIN ROSEVILLE INTON TWP	3,875,000 6,667,500 3,100,000 1,266,875
Rehabilita HM <u>W. O. 2</u> Bridge CF	ation 525,000 1 Mile Road at M	105,000	787,500	5,250,000 SENA	MCDR ATOR LEVIN ROSEVILLE INTON TWP	3,875,000 6,667,500 3,100,000 1,266,875 1,266,875 1,033,750
Rehabilita HM	ation 525,000 <u>1 Mile Road at M</u> PM	105,000	787,500 <u>nton River</u>	5,250,000 SENA CL 36,000	MCDR ATOR LEVIN ROSEVILLE INTON TWP	3,875,000 6,667,500 3,100,000 1,266,875 1,266,875







-	Design	R.O.W	Construction Engineering	Contract	Sign & Signal	Totals & Financing
<u>W. O. 2</u>	3 Mile Road - No	orth Avenue to C	Card Road (NC 60%	- HM 40%) - (carry-	over)	
Reconstruc	ct and Widen					
NC			312,129	2,080,860		2,392,989
HM			208,086	1,387,240		1,595,326
Total			520,215	3,468,100		3,988,315
				MA	COMB TWP	1,994,158
					MCDR	1,994,158
NC HM Total			787,500 525,000 1,312,500	5,250,000 3,500,000 8,750,000		6,037,500 4,025,000 10,062,500
TOTAL			1,512,500		COMB TWP MCDR	5,031,250
		dan sieh en De	meo Plank (NC 609	% - HM 40%)		
	<u>3 Mile Road - He</u> ct and Widen	eydenreich to Ko				
		eydenteich to Ko	675,000	4,500,000		5,625,000
Reconstruc	ct and Widen	eydenreich to Ko				5,625,000 3,750,000
Reconstruc NC	ct and Widen 450,000	eydenreich to Ko	675,000	4,500,000		
Reconstruc NC HM	ct and Widen 450,000 300,000	eydenreich to Ko	675,000 450,000	4,500,000 3,000,000 7,500,000	DC/STU/NH	3,750,000
Reconstruc NC HM	ct and Widen 450,000 300,000	eydenreich to Ko	675,000 450,000	4,500,000 3,000,000 7,500,000 EI	DC/STU/NH .COMB TWP	3,750,000 9,375,000







	Design	R.O.W	Construction Engineering	Contract	Sign & Signal	Totals & Financing
<u>W. O.</u>	2021 Pavement Pr	eservation Progr	am - Primary - (carry	-over)		
County	Wide					
НМ			75,000	750,000		825,000
					MCDR	825,000
<u>W. O.</u> County		urfacing, Restor	ation, and Rehabilit	ation		
НМ	180,000		450,000	3,000,000		3,630,000
1.81				CIT	TIES & TWPS	1,815,000
					MCDR	1,815,000
<u>W. O.</u> County HM	2022 Bridge Insp Wide	ection - Primary		75,000		75,000
					MCDR	75,000
<u>W. O.</u> County	2022 Bridge Mair Wide	ntenance - Prima	Ţ			
НМ	75,000		112,500	750,000		937,500
					MCDR	937,500
	2022 MDOT Fina Wide	l Accountings				
County						
HM				100,000		100,000







	Design	R.O.W	Construction Engineering	Contract	Sign & Signal	Totals & Financing
<u>W. O.</u> County	2022 <u>Pavement P</u> Wide	reservation Prog	<u>ram - Primary</u>			
НМ	180,000		300,000	3,000,000		3,480,000
					MCDR	3,480,000
<u>W. O.</u> County	2022 Survey & De Wide	<u>esign</u>				
НМ	300,000					300,000
					MCDR	300,000
<u>W. O.</u> County HM	<u>2022 Signal Mode</u> Wide 100,000	ernizations	160,000	1,000,000		1,260,000
					MCDR	1,260,000
<u>W. O.</u> County	2022 New Signals Wide					
НМ	50,000		80,000	500,000		630,000
					MCDR	630,000
<u>W. O.</u> County	2022 LED Retrofi Wide	<u>t</u>				
НМ	70,000		30,000		350,000	450,000
					MCDR	450,000







Design	R.O.W	Construction Engineering	Contract	Sign & Signal	Totals & Financing
W. O. 2016 Congestion Communication Load Dist	0	ir Quality - (carry-over	<u>c)</u>		
Communication Load Dist	rioution				
НМ		10,000	360,000		370,000
				MCDR	370,000
W. O. 2017 Congestion Communication Load Dist		ir Quality - (carry-over	<u>-)</u>		
НМ		20,000	500,000		520,000
				MCDR	520,000
<u>W. O. 2019 Congestion</u> Connected Vehicle RSU's d	2.451		<u>;)</u>		
НМ		150,000	1,300,000		1,450,000
				CMAQ	1,220,000
				MCDR	230,000
<u>W. O. 2020 Congestion</u> Connected Vehicle RSU's a	_		2		
НМ		190,000	2,360,000		2,550,000
				CMAQ MCDR	1,970,000 580,000
W. O. 2021 Congestion Fiber Optic Cable, Phase 3	0	ir Quality - (carry-ove	<u>r)</u>	MCDK	
НМ		215,000	2,670,000		2,885,000
				CMAQ	2,427,000
4 <u></u>				MCDR	458,000







	Design	R.O.W	Construction Engineering	Contract	Sign & Signal	Totals & Financing
<u>W. O.</u>	2022 Congestion N	<u>/itigation & A</u>	ir Quality			
Fiber C	ptic Cable, Phase 4				2	
НМ	150,000			100,000		250,000
					MCDR	250,000
	<u>2023 Congestion N</u> Pptic Cable, Phase 5	<u>litigation & A</u>	ir Quality			
НМ	50,000			100,000		150,000
					MCDR	150,000
	<u>2019 Safety - (carry</u> ins with Backplates at					
НМ			10,000	60,000		70,000
					HSIP MCDR	10,000 60,000
	<u>2019 Safety - (carry</u> - ttes at 84 Locations	<u>over)</u>				
НМ			10,000	60,000		70,000
					HSIP MCDR	10,000 60,000







	Design	R.O.W	Construction Engineering	Contract	Sign & Signal	Totals & Financing
	2020 Safety - (car es in Sterling Heigl					
НМ			20,000	78,000		98,000
					HSIP	54,000
				ST	ERLING HTS	12,000
					MCDR	32,000
	2020 Safety - (cai as with Backplates	r <u>ry-over)</u> in Sterling Heights				
НМ			120,000	739,000		859,000
					HSIP	179,000
				ST	ERLING HTS	280,000
					MCDR	400,000
	2020 Safety - (car es in Warren	ry-over)				
НМ			30,000	151,000		181,000
					HSIP	111,000
					WARREN	20,000
					MCDR	50,000
	2020 Safety - (car is with Backplates					
НМ			30,000	163,000		193,000
					HSIP	139,000
					WARREN	12,000
					MCDR	42,000







Design R.O.W	Construction Engineering	Contract	Sign & Signal	Totals & Financing
<u>W. O. 2020 Safety - (carry-over)</u> Sign Upgrades North Avenue				
НМ	10,000	20,000		30,000
			HSIP MCDR	10,000 20,000
<u>W. O. 2021 Safety - (carry-over)</u> Signal Upgrades, 8 Southern Locations				
НМ	106,000	662,000		768,000
			HSIP MCDR	565,000 203,000
<u>W. O. 2021 Safety - (carry-over)</u> Signal Upgrades, 6 Northern Locations				
НМ	97,000	603,000		700,000
			HSIP MCDR	516,000 184,000
<u>W. O. 2021 Safety - (carry-over)</u> Signal Upgrades, 10 Mile - Eastpointe Pro	ject			
НМ	50,000	965,000		1,015,000
			HSIP EASTPOINTE ROSEVILLE MCDR	600,000 110,000 55,000 250,000







	Design	R.O.W	Construction Engineering	Contract	Sign & Signal	Totals & Financing
	2023 Safety Project: Locations TBD	<u>s</u>				
HM	80,000			20,000		100,000
					MCDR	100,000
	2022 Traffic Opera Dperations, Maintenan		ıt			
HM				3,470,000		3,470,000
					CMAQ MCDR	2,776,000

TOTALS . . . PRIMARY ROADS and BRIDGES

\$12,872,298	\$3,950,000	\$17,890,948	\$167,596,323	\$350,000	\$202,659,569







Design	R-O-W	Construction Engineering	Contract	Sign & Signal	Totals & Financing	
W. O. Card Road a	at M-59					
Dual Right Turn Lan	es					
HM 15,000		22,500	150,000		187,500	
				MCDR	187,500	
<u>W. O. Coon Creek</u> Bridge Replacement	Road at Coon C	Creek				
HM 101,800		152,700	1,018,000		1,272,500	В
			LO	CAL BRIDGE	814,400	
				MCDR	458,100	
<u>W. O. Garfield Roa</u> New Construction - N NC		<u>Mile Road to 23 M</u> 585,000	<u>ile Road - (carry-o</u> 3,900,000	<u>ver)</u>	4,485,000	
			M	ACOMB TWP MCDR	2,242,500 2,242,500	
<u>W. O. Heydenreich</u> Bridge CPM	a at Middle Brand	ch Clinton River				
HM 10,600		15,900	106,000		132,500	в
			LO	CAL BRIDGE	84,800	
				MCDR	47,700	







	Design	R-O-W	Construction Engineering	Contract	Sign & Signal	Totals & Financing	
<u>W. O.</u> Non-Mot		oughout Macon	<u>nb County</u>				
НМ	240,000		360,000	2,400,000		3,000,000	
		_			TOWNSHIPS MCDR	1,500,000	
	North River at eplacement	<u>: Catfish Chann</u>	<u>el</u>				
НМ	303,600	120,000				423,600	в
					MCDR	423,600	
<u>W. O. </u> Rehabilit		<u>32 Mile Road to</u>	o 33 Mile Road				
НМ	150,193		225,289	1,501,929		1,877,411	
					STU	1,015,686	
				ROMEO/BRU	CE/ARMADA	430,863	
				ь. 	MCDR	430,862	
<u>W. O. V</u> Resurfaci		'an Dyke to Mou	und				
НМ	96,223		144,334	962,229		1,202,786	
				WASHI	NGTON TWP	721,672	
					MCDR	481,114	







_	Design	R-O-W	Construction Engineering	Contract	Sign & Signal	Totals & Financing	
<u>W. O.</u>	22 Mile Road	at Salt Slang Gl	oede <u>Drain - (carry</u> -	-over)			
Bridge I	Replacement						
НМ			76,552	510,349		586,901	в
				LO	CAL BRIDGE MCDR	484,831 102,070	
<u>W. O.</u> Bridge (29 Mile Road : CPM	at Salt <u>River</u>					
НМ	15,300		22,950	153,000		191,250	в
				LO	CAL BRIDGE	122,400	
					MCDR	68,850	
<u>W. O</u> Reconst		Bur Oak Drive	<u>to Kildare Drive</u>				
НМ	225,129		337,694	2,251,294		2,814,117	
				WASHI	NGTON TWP	1,688,471	
					MCDR	1,125,646	
<u>W. O</u> Reconstr		<u>Mound Road to</u>	<u>o Bur Oak Drive</u>				
HM	126,315		189,472	1,263,148		1,578,935	
				WASHI	NGTON TWP	1,578,935	







Design R-O-W	Construction Engineering	Contract	Sign & Signal	Totals & Financing	
W. O. 2021 Pavement Preservation Pr	ogram - Local - (ca	arry-over)			
County Wide					
НМ	75,000	750,000		825,000	
			MCDR	825,000	
<u>W. O. 2021 Subdivision Reconstruction</u> County Wide	<u>on - (carry-over)</u>				
НМ	123,600	824,000		947,600	
			TOWNSHIPS	473,800	
			MCDR	473,800	
<u>W. O. 2022 Bridge Inspection - Local</u> County Wide					
НМ		75,000		75,000	в
			MCDR	75,000	
<u>W. O. 2022 Large Culvert Replacemen</u> County Wide	nt				
НМ 60,000	90,000	600,000		750,000	
			MCDR	750,000	







Des	ign	R-O-W	Construction Engineering	Contract	Sign & Signal	Totals & Financing
<u>W. O. 2022</u> County Wide		e Program - Loo	<u>cal</u>			
НМ				2,200,000		2,200,000
					TOWNSHIPS	220,000
					MCDR	1,980,000
County Wide		Preservation F	<u>'rogram - Local</u> 300,000	3,000,000		3,480,000
					MCDR	3,480,000
County Wide		<u>n Reconstruct</u>				
HM 22	4,000		480,000	3,296,000		4,000,000
					TOWNSHIPS MCDR	2,000,000

TOTALS . . . LOCAL ROADS and BRIDGES

\$1,748,160	\$120,000	\$3,200,991	\$24,960,949	\$O	\$30,030,100