



The Township of Byram
10 Mansfield Drive
Stanhope, New Jersey 07874

973-347-2500

www.byramtwp.org

TO: Mayor and Council and all Residents of Byram Township

DATE: March 14, 2024

RE: 2024 Capital Budget Message

Capital Budget:

- Local Budget Law 40A:4-43 – Capital Budgets, definition.
The governing body may and shall, when directed by the local government board, prepare, approve, and adopt a budget for the expenditure of public funds for capital purposes to give effect to general improvement programs. A capital budget shall be a plan for the expenditure of public funds for capital purposes, showing as income the revenues, special assessments, free surplus, and down payment appropriations to be applied to the cost of a capital project or projects, expenses of issuance of obligations, engineering supervision, contracts and any other related expenditures.
- The Governing Body is required to adopt a capital budget and a capital improvement program in conjunction with its annual operating budget.
- The capital budget represents *the current year* of a three-year capital improvement program since the Township is under a 10,000 population.
- The capital improvement program presents the schedule for capital projects showing projected costs and revenue sources.
- The capital budget **DOES NOT** in itself confer any authority to raise or expend funds. The capital budget can be changed by resolution after adoption.
- The Governing Body may assign the responsibility for preparing the capital budget for the capital improvement program to the administrative staff or the Planning Board, or both. Final content of the plan resides with the Governing Body. In Byram Township, it has been the responsibility of the Administrative Staff to prepare the capital budget and capital improvement program.

Capital Improvement Fund:

- Within the general fund under general appropriations there is a provision for Capital Improvement appropriations.
- This is for appropriations that have a useful life of 5 years or more.
- The fund permits appropriations to be set aside for purposes that may not be known or specified at time of the budget adoption.
- Municipalities annually may appropriate a fixed sum to this fund permitting it to build up over several years.

- No money may be expended from the Capital Improvement Fund without an ordinance being adopted for a specific purpose.
- The capital improvement fund is used as a means of financing down payments for bond ordinance appropriations. All bondable capital items must have a minimum 5% down payment. Also, the Governing Body can decide to fund an ordinance fully or partially from the Capital Improvement Fund and/or Capital Fund Balance.
- Capital Fund Balance results from the cancelation of unexpended funds in a fully funded debt or mixed funded ordinance. The Governing Body may adopt an ordinance authorizing the funding of a capital project from Capital Fund Balance or it can be anticipated as revenue in the current fund operating budget.
 - As of December 31, 2023, the balance in the Capital Improvement Fund totaled \$1,592,676.29.
 - *Note: This includes the money that was allocated to support the 5% down payment for the municipal building project. (\$550,000)*
 - As of December 31, 2023, the balance in Capital Fund Balance totaled \$148,134.41.
 - Capital Reserve Balances:
 - Road Resurfacing - \$90,529.25
 - Field Irrigation - \$40,000.00
 - Drainage - \$26,500

Capital Planning Process:

- The Township's Master Plan serves as the blueprint for the future of the community. The Master Plan includes the Open Space and Recreation Plan. The Master Plan is a long-term planning document that can be referenced when completing the capital planning process.
- Departments are requested to compile their capital project requests each year as part of the budget process. These projects can fall into the categories of being a recurring project such as street maintenance, previously identified projects and new projects which can include acquisition of land or structures, construction, major repairs or rehabilitation, and major equipment.
- Projects should be described with justification, estimated costs, and proposed method of financing.

Debt Service:

- Local Bond Law – 40A:2:
 - 40A:2-5. Debt Limitation – no bond ordinance shall be finally adopted if it appears from the supplemental debt statement that the percentage of net debt as stated pursuant to 40A:2-42 exceeds 3.5% (based on the equalized valuations of the taxable real estate, together with the improvement for the last 3 preceding years).
 - Annual Debt Statement (01/26/2024):
 - Total Debt = \$1,568,506.18
 - Percentage of Debt = 0.132%
 - Total allowable debt = \$41,527,924.55 (3.5%)

- Total Debt includes Bond Anticipation Notes, Bonds, Green Acres Loans, Emergency Notes, Sewer Debt, Open Space Debt and Special Assessment Debt.
- 40A:2-8.1 Issuance of bond anticipation notes:
 - Issued for a period not to exceed one year.
 - Shall mature and be paid no later than the first day of the fifth month following the closing of the tenth fiscal year next following the date of the original notes.
 - No notes shall be renewed beyond the third anniversary date of the original notes unless an amount of such notes, at least equal to the first legally payable installment of the bonds in anticipation of which those notes are issued, is paid.
- In 2015, the Township was at the end of its ten (10) year permanent debt cycle with the final payment on the outstanding general obligation bonds made on October 1, 2015. To continue with a new ten (10) year cycle, the Township took advantage of interest rates and authorized a bond sale to convert all short-term debt (bond anticipation notes) to permanent debt. The Township purchased \$1,928,000 in general obligation bonds with a net interest rate of 1.911494%. The final payment on the bond will be September 1, 2025.
- Since 2015, the Township has restructured its debt plan and has adjusted paydowns on bond anticipation notes to match the average useful life of the items being bonded.
- The scheduled payment for 2024 Debt Service is as follows:

	Principal	Interest
Bond	\$200,000	\$9,020
BAN	\$154,800	\$29,450
Green Acres	\$29,144.68	\$1,946.92
TOTALS:	\$383,944.68	\$40,416.92
	TOTAL:	\$424,361.60

- Current Outstanding Debt Service:
 - 2005 Open Space Bonds:
 - Last Payment – October 2024
 - Principal Outstanding - \$60,000.00
 - Interest Outstanding - \$2,400.00
 - 2015 General Obligation Bonds:
 - Original Issue - \$1,928,000.00
 - Last Payment – September 2025
 - Principal Outstanding - \$328,000.00
 - Interest Outstanding - \$12,540.00
 - Green Acres Loan:
 - Last Payment – May 2027
 - Principal Outstanding - \$104,595.20
 - Interest Outstanding - \$4,225.46
- Bond Anticipation Notes:
 - Annual Payment – June 2024
 - Current Outstanding - \$825,700.00

2024 Capital Budget and Capital Improvement Program

- The Capital Budget represents the current year of a three-year capital improvement program. The Capital Budget does not in itself confer any authority to raise or expend funds. The 2024 Capital Budget includes proposed projects totaling \$4,923,000. The proposed capital budget does not include necessary improvements to the municipal building. Following is summary by department:

○ Streets and Roads	\$1,121,000
○ DPW	\$401,000
○ Fire	\$1,316,000
○ Parks	\$2,035,000
○ Police	\$20,000
○ Drainage	\$5,000
○ Capital Improvement Fund	\$25,000
○ 2024 Minimum Municipal Building Repairs	TBD
- Township maintains a 10-year capital roadway improvement plan.
 - This plan includes a list of every roadway in the Township.
 - Byram Township’s roadway improvement plan covers the maintenance of 52 miles and about 718,516 square yards of Streets and Roads.
 - The plan categorizes the Township’s Streets and Roads into three categories of roadway types:
 - LOCAL – A local road is a street that is primarily used to gain access to a resident’s property.
 - COLLECTOR ROADWAY – A collector road is a low-to-moderate capacity road which serves to move traffic from local streets to arterial roads.
 - ARTERIAL ROADWAY - An arterial road is a higher-capacity urban road. The primary function of an arterial road is to deliver traffic from collector roads to highways or urban centers.
 - The plan attempts to estimate and plan out 10 years of roadway improvements considering the varying roadway improvement types.
 - Since 2020, the roadway improvement plan has been based on a program of mill and pave.
 - In recent years the roadway improvement plan has been impacted by the deployment of natural gas by both Elizabethtown Gas and New Jersey Natural Gas.
- The Capital Improvement Program is the vehicle that allows the Township to plan and prioritize large expenditures. The Capital Improvement Fund is used as a means of financing down payments for bond ordinance appropriations. Also, the Governing Body can decide to fund a capital ordinance partially or fully from the Capital Improvement Fund.
 - The total appropriation to the Capital Improvement Fund for 2024 is \$634,223 which is a reduction of \$8,350 compared to 2023.
 - Includes \$25,000 that is raised annually to fund the Capital Improvement Fund.

2024 PROPOSED Capital Improvements – funded from Budget:

Operating portion of Budget:

○ Improvements to Streets and Roads	\$225,500
○ DPW Equipment	\$100,000
○ Purchase of Vehicles	\$70,000

Capital portion of Budget:

○ Supplement for Streets and Roads:	\$100,000
○ Drainage Improvements:	\$5,000
○ Capital Improvement Fund:	\$617,000

NOTES:

- In 2024, the Township now has seven (7) active employees and two (2) retirees that waive health benefits. The Township remains liable to provide health benefits if the employee becomes ineligible for coverage from the independent source.
- Moved \$100,000 to DPW Equipment and \$120,000 to Improvements to Streets and Roads from the Group Health Insurance account.

Future Debt Obligations (plan):

- Current plan is anticipating debt authorization for COJ Park Improvements and a new Fire Truck.
- Plan for COJ Park Improvements is evolving.
- Fire Truck subcommittee has started meetings with Fire Department. Estimated cost is \$1.3 million. Minimum 5% down payment is \$65,000 with \$1,235,000 estimated for bonding.
- Recently, Governor Murphy signed into law P.L. 2023 c.333, which changes the borrowing term for various capital improvements and equipment, including fire engines and other safety equipment. Previously, new fire engines, apparatus and equipment could only be financed for up to ten (10) years, but with the new law, municipalities and fire districts can realize some budget relief by spreading out the repayment terms for these capital purchases over a twenty (20) year period.
- Sample Debt Schedule for Fire Truck following.
- This gives idea of the potential impact of a large debt service on the municipal budget.

TOWNSHIP OF BYRAM
\$1.3 MILLION FIRE TRUCK DEBT SERVICE SUMMARY

Due Date	Principal	Interest	Total
Year 1	\$61,750.00	\$49,400.00	\$111,150.00
Year 2	\$61,750.00	\$46,930.00	\$108,680.00
Year 3	\$61,750.00	\$44,460.00	\$106,210.00
Year 4	\$61,750.00	\$41,990.00	\$103,740.00
Year 5	\$61,750.00	\$39,520.00	\$101,270.00
Year 6	\$61,750.00	\$37,050.00	\$98,800.00
Year 7	\$61,750.00	\$34,580.00	\$96,330.00
Year 8	\$61,750.00	\$32,110.00	\$93,860.00
Year 9	\$61,750.00	\$29,640.00	\$91,390.00
Year 10	\$61,750.00	\$27,170.00	\$88,920.00
Year 11	\$61,750.00	\$24,700.00	\$86,450.00
Year 12	\$61,750.00	\$22,230.00	\$83,980.00
Year 13	\$61,750.00	\$19,760.00	\$81,510.00
Year 14	\$61,750.00	\$17,290.00	\$79,040.00
Year 15	\$61,750.00	\$14,820.00	\$76,570.00
Year 16	\$61,750.00	\$12,350.00	\$74,100.00
Year 17	\$61,750.00	\$9,880.00	\$71,630.00
Year 18	\$61,750.00	\$7,410.00	\$69,160.00
Year 19	\$61,750.00	\$4,940.00	\$66,690.00
Year 20	\$61,750.00	\$2,470.00	\$64,220.00
Totals	\$1,235,000.00	\$518,700.00	\$1,753,700.00

TOTAL COST	\$1,300,000.00
5%	
DOWNPAYMENT	\$65,000.00
INTEREST RATE	4.00%

TOWNSHIP OF BYRAM			CAPITAL IMPROVEMENT PROGRAM 2024-2026								
2024 CAPITAL BUDGET						5% Down Pymt					
				CAPITAL							
			2024 Budget	2024 Budget	Amounts Reserved In	Capital Improvement	Grants and Other	Debt	Other		
		Proposed Costs	O&E	Appropriation	Prior Years	Fund	Funds	Authorized	Funding	NOTES	
Proposed Projects	DEPT										
Various Street and Road Projects - Mill & Pave: - 2023 NJDOT Project - Stonehedge Lane - 2024 NJDOT Project - Manor - Mayfair Lane, Bridge Lane, Sandra Lane, Catalina Drive, & Camelot Drive - Birch Parkway	ROADS	\$1,041,000	\$225,500	\$100,000	\$0	\$0	\$282,254	\$0	\$433,246	Prior Capital Ordinances: - 04-2021 - 04-2022 - 06-2023	\$1,041,000
Roadway Crack Sealing, Roadway Striping and Roadway Repairs	ROADS	\$50,000	\$0	\$0	\$0	\$50,000	\$0	\$0	\$0		\$50,000
East Brookwood Drainage Issues	ROADS	\$30,000	\$0	\$0	\$0	\$0	\$30,000	\$0	\$0	Consider for possible grant.	\$30,000
DPW Equipment Replacement: - P-3 2007 Dodge 3500 DRW 4x4 - \$60,000 - 2004 Elgin Street Sweeper - \$325,000 - 2017 Scag 72" Zero Turn Mower S-1 - \$16,000	DPW	\$401,000	\$100,000	\$0	\$0	\$301,000	\$0	\$0	\$0		\$401,000
ALCOTEST - Alcohol Drug Testing	POLICE	\$20,000	\$0	\$0	\$0	\$20,000	\$0	\$0	\$0		\$20,000
COJ Park Improvements (Includes Field 8 Improvements)	PARKS	\$1,500,000	\$0	\$0	\$0	\$75,000	\$0	\$594,769	\$830,231	ARP Funding	\$1,500,000
COJ Maintenance and Repairs: - Tennis Courts: \$10,000 - Skate Park Repairs: \$90,000 - Wood Beam Guiderail (new): \$25,000 - Fence Repairs: \$10,000 - Large Parking Area: \$60,000	PARKS	\$195,000	\$0	\$0	\$0	\$0	\$0	\$0	\$195,000	OS Funding	\$195,000
COJ Playground	PARKS	\$275,000	\$0	\$0	\$0	\$0	\$206,250	\$6,250	\$62,500	Green Acres Grant - Completely Inclusive Playground - 75% matching OS Funding	\$275,000
LED Message Board Signs (Qty 2)	PARKS	\$65,000	\$0	\$0	\$0	\$65,000	\$0	\$0	\$0		\$65,000
Fire Truck (Replacement Engine 1/Rescue)	FIRE	\$1,300,000	\$0	\$0	\$0	\$65,000	\$0	\$1,235,000	\$0		\$1,300,000
Fire SCBA	FIRE	\$16,000	\$0	\$0	\$0	\$16,000	\$0	\$0	\$0		\$16,000
Drainage Improvements		\$5,000	\$0	\$5,000	\$0	\$0	\$0	\$0	\$0	Annual approp. to reserve	\$5,000
Capital Improvements		\$25,000	\$0	\$0	\$0	\$25,000	\$0	\$0	\$0	Annual approp. to fund projects/downpayments	\$25,000
TOTAL		\$4,923,000	\$325,500	\$105,000	\$0	\$617,000	\$518,504	\$1,836,019	\$1,520,977	\$4,923,000	\$4,923,000
2025 CAPITAL BUDGET						5% Down Pymt					
				CAPITAL							
			2025 Budget	2025 Budget	Amounts Reserved In	Capital Improvement	Grants and Other	Debt	Other		
		Proposed Costs	O&E	Appropriation	Prior Years	Fund	Funds	Authorized	Funding	NOTES	Total
Proposed Projects	DEPT										
Future Road Resurface Program - Including NJDOT Project (Mill & Pave, Cape Seal, Oil Stone)	ROADS	\$1,568,989	\$225,500	\$100,000	\$0	\$25,739	\$250,000	\$967,750	\$0		\$1,568,989
Roadway Crack Sealing and Roadway Striping	ROADS	\$50,000	\$0	\$0	\$0	\$50,000	\$0	\$0	\$0		\$50,000
DPW Equipment	DPW	\$206,000	\$100,000	\$0	\$0	\$106,000	\$0	\$0	\$0		\$206,000
Fire SCBA	FIRE	\$350,000	\$0	\$0	\$0	\$16,000	\$0	\$334,000	\$0		\$350,000
Drainage Improvements		\$5,000	\$0	\$5,000	\$0	\$0	\$0	\$0	\$0	Annual approp. to reserve	\$5,000
Capital Improvements		\$25,000	\$0	\$0	\$0	\$25,000	\$0	\$0	\$0	Annual approp. to fund	\$25,000
TOTAL		\$2,204,989	\$325,500	\$105,000	\$0	\$222,739	\$250,000	\$1,301,750	\$0	\$2,204,989	\$2,204,989

2026 CAPITAL BUDGET						5% Down Pymt					
				CAPITAL							
			2026 Budget	2026 Budget	Amounts Reserved In	Capital Improvement	Grants and Other	Debt	Other Funding		
Proposed Projects		Proposed Costs	Budget O&E	Budget Appropriation	Prior Years	Fund	Funds	Authorized		NOTES	Total
Future Road Resurface Program - Including NJDOT Project (Mill & Pave, Cape Seal, Oil Stone)	ROADS	\$1,422,035	\$225,500	\$100,000	\$0	\$35,658	\$250,000	\$810,877	\$0		\$1,422,035
Roadway Crack Sealing and Roadway Striping	ROADS	\$50,000	\$0	\$0	\$0	\$50,000	\$0	\$0	\$0		\$50,000
DPW Equipment	DPW	\$115,000	\$100,000	\$0	\$0	\$15,000	\$0	\$0	\$0		\$115,000
Fire Equipment	FIRE	\$500,000	\$0	\$0	\$0	\$0	\$0	\$500,000	\$0		\$500,000
Drainage Improvements		\$5,000	\$0	\$5,000	\$0	\$0	\$0	\$0	\$0	Annual approp. to reserve	\$5,000
Capital Improvements		\$25,000	\$0	\$0	\$0	\$25,000	\$0	\$0	\$0	Annual approp. to fund	\$25,000
TOTAL		\$2,117,035	\$325,500	\$105,000	\$0	\$125,658	\$250,000	\$1,310,877	\$0	\$2,117,035	\$2,117,035

Capital Projects 2024 - 2035		Dept	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	Comments
2024 Minimum Municipal Building Repairs: - Replacement of roofs for both buildings. - HVAC for both buildings - Bathrooms - (minimum council room) - Replacement Windows - Secondary improvements needed due to impacts of minimum building repairs.		Facilities	TBD														
P-1 2012 GMC 3500 EX Cab 4x4		DPW		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
P-2 2017 F-350 DWR 4x4		DPW			\$65,000						\$60,000						
P-3 2007 Dodge 3500 DRW 4x4		DPW	\$60,000														
P-4 2017 F-350 DRW 4x4		DPW				\$65,000											
P-5 2018 F-350 SRW 4X4 Sewer		DPW					\$65,000										
P-6 2017 F-250 EX cab 4x4 Lift Gate		DPW		\$65,000													
P-7 2019 F-350 EX cab 4x4 Utility Body		DPW						\$70,000									
P-8 2022 F-350 SRW 4x4		DPW									\$60,000						
M-1 2020 Ford F550 Mason Dump		DPW							\$105,000								
M-2 2020 Ford F550 Mason Dump		DPW								\$105,000							
M-3 2022 Ford F550 Mason Dump		DPW									\$110,000						
M-4 2022 Ford F600 Mason Dump		DPW										\$110,000					
FB-1 2019 Ford F550 4x4 Flat Bed		DPW						\$85,000									
FB-2 2020 Ford F550 4x4 Flat Bed		DPW							\$86,000								
FB-3 2021 Ford F550 4x4 Flat Bed		DPW								\$87,000							
FB-4 2022 Ford F550 4x4 Long WB Flat Bed		DPW															
D-1 2022 Ford F750 Dump		DPW															
D-2 2015 Freightliner Dump		DPW						\$300,000									
D-3 2022 Kentworth Dump																	
HL-1 2020 Kentworth Hook Lift Truck		DPW											\$300,000				
2021 Case 321F Loader		DPW														\$100,000	
2003 McCormick CX70 Tractor		DPW		\$125,000													
2017 Case 521GXR Loader		DPW							\$130,000								
2019 Case 580SN - Backhoe		DPW												\$125,000			
2019 Case TR310 Track Loader w/attach		DPW									\$100,000						
1996 Whacker Roller RD880		DPW			\$50,000												
2017 Diamond Road Mower Attachment		DPW					\$40,000										
2018 John Deere Midsize Tractor		DPW												\$25,000			
2018 Bandit Chipper		DPW															
2019 John Deere Tractor Compact with Attachments		DPW												\$35,000			
2019 Falcon Asphalt Hot Box		DPW						\$45,000									
2004 Elgin Street Sweeper		DPW	\$325,000														
2021 Perma Green Ride-On Applicator		DPW								\$15,000							
2017 Scag 72" Zero Turn Mower S-1		DPW	\$16,000														
2017 Scag 72" Zero Turn Mower S-2		DPW		\$16,000													
2019 Scag 72" Zero Turn Mower S-3		DPW				\$16,000											
2022 Scag 72" Zero Turn Mower S-4		DPW						\$16,000									
2021 John Deere 48" Walk Behind		DPW								\$7,000							
2023 Kifco Water Canon		DPW															
2017 CCM20SE Equipment Trailer		DPW						\$10,000									
2019 Sure Trac Mason Trailer		DPW							\$5,000								
2019 Sure Trac Tilt Trailer 7x13		DPW										\$10,000					
2020 Sure Trac Implement Trailer (milling trailer)		DPW							\$10,000								
2021 Sure Trac Landscape Trailer 22ft		DPW								\$8,000							
2022 Quality 7x14 Landscape Trailer		DPW									\$6,000						
2023 Quality 7x14 Landscape Trailer		DPW										\$6,000					
2023 Sure Trac Tilt Trailer 5x10		DPW															
Sub Total for DPW			\$401,000	\$206,000	\$115,000	\$81,000	\$105,000	\$526,000	\$336,000	\$222,000	\$336,000	\$126,000	\$300,000	\$185,000	\$0	\$100,000	
Replace Engine 1 1998 E-one Engine/Rescue Truck		Fire	\$1,300,000														
SCBA Replacement - End of Life		Fire	\$16,000	\$350,000													
Tender 7 - Replacement		Fire			\$500,000												
Tender 5 - Refurbish		Fire				\$175,000											
Sub Total for Fire			\$1,316,000	\$350,000	\$500,000	\$175,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			

[illegible]

BYRAM TOWNSHIP - ROADWAY IMPROVEMENT PLAN
10 YEAR PLAN - 2024 to 2033

STREET NAME	Roadway Type	Area in Town	Year Last Paved	Year O/S or Cape Seal	Length (ft)	Width (ft)	Area (SY)	PCI	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Roseville Road - Section I - (CO to Tunnel #1)	Arterial	Roseville Road	2018		3,550	24	9,467	88.17									\$262,143.44	
Roseville Road - Section II - (Tunnel #1 to Amity)	Arterial	Roseville Road	2011/2018		3,350	24	8,933	90.83									\$247,374.80	
Roseville Road - Section II - (Amity to Tunnel #2)	Arterial	Roseville Road	2012		1,000	26	2,889	99.00									\$79,996.83	
Roseville Road - Section III - (Andover TWP to CO)	Arterial	Roseville Road	2012		6,050	24	16,133	84.67									\$446,751.50	
Roseville Road - Section IV - (Tunnel #2 to Lackawanna Dr.)	Arterial	Roseville Road	2013		4,025	24	10,733	88.33									\$297,218.97	
Tamarack Road - Section I (Johnson Lake to Route 206)	Arterial	Tamarack Road	2013		3,400	30	11,333	89.00							\$284,656.42			
Tamarack Road - Section II (Johnson Lake to Roseville)	Arterial	Tamarack Road	2022		4,485	30	14,950	84.00								\$394,270.07		
Amity Road - Section I - (Roseville Road End)	Arterial	Amity Road	2015		3,500	24	9,333	94.17										\$271,373.84
Amity Road - Section II	Arterial	Amity Road	2017		3,115	24	8,307	91.17										\$241,522.72
Amity Road - Section III - (Lee Hill Road End)	Arterial	Amity Road	2017		3,405	24	9,080	92.67										\$264,007.98
Continental Drive	Arterial	Continental Drive	2021		900	60	6,000	61.50										
Tomahawk Trail	Arterial	Tomahawk Trail	2011		3,500	24	9,333	88.83				\$202,503.34						
North Shore Road	Collector	Cranberry Lake NS	2020		8,670	24	23,120	100.00										
Brookwood Road - I - (Route 206 to Briar Lane)	Collector	East Brookwood	2009		2,000	28	6,222	92.67							\$156,281.95			
Brookwood Road - II - (Briar Lane to Ross Road)	Collector	East Brookwood	2017		2,000	28	6,222	94.00							\$156,281.95			
Brookwood Road - III - (Ross Road to Cul-de-sac)	Collector	East Brookwood	2005		2,400	28	7,467	86.67							\$187,538.34			
Acorn Street	Collector	West Brookwood	2010		2,555	22	6,246	90.33						\$149,398.11				
Whitehall Hill Road	Collector	Route 206	2020		2,065	24	5,507	99.33										
Mansfield Drive	Collector	Lake Lackawanna	2018		1,150	24	3,067	93.17										
South Shore Road - (Section 1 - 2005; Section 2 - 2011)	Collector	Cranberry Lake SS	2005 & 2011		5,610	20	12,467	82.00		\$245,339.33								
Lake Drive/Reis Avenue/Brown Dr	Collector	Lake Lackawanna	1999	2018	7,250	22	17,722	91.17										
Forest Lakes Drive	Collector	Forest Lakes	2003	2016	7,740	22	18,920	82.17				\$410,503.20						
Crecent Drive North	Collector	Forest Lakes	2021		3,085	24	8,227	89.50										
Crecent Drive South	Collector	Forest Lakes	2001	2015	2,455	24	6,547	96.00		\$128,835.95								
Sleepy Hollow Road	Collector	Forest Lakes	2000	2015	5,805	26	16,770	88.67			\$346,528.68							
Cranberry Ledge Road	Collector	Cranberry Lake NS	2020		3,275	20	7,278	100.00										
Fieldstone Trail	Collector	Lake Mohawk/Tomahawk Lake	2021		5,440	30	18,133	64.67										
Sandra lane	Collector	Lake Mohawk/Tomahawk Lake	Original		1,555	30	5,183	87.67	\$86,949.00									
Stone Hedge Lane	Collector	Lake Mohawk/Tomahawk Lake	Original		4,950	30	16,500	76.83	\$336,926.00									
Brookwood Drive	Collector	East Brookwood	2009		3,410	30	11,367	70.83					\$258,951.15					
Heminover Street	Local	Lake Lackawanna	1999	2018	860	22	2,102	87.00								\$55,441.02		
Bank Street	Local	Lake Lackawanna	1999	2018	800	20	1,778	65.17							\$44,651.99			
Carpenter Road - (Gravel 2018, Orig. Cape Seal 2018)	Local	Lake Lackawanna	2012 & 2018	2018	1,770	12	2,360	92.67								\$62,239.29		
Lake Drive - Loop Roads	Local	Lake Lackawanna	1999	2018	6,850	22	16,744	95.83								\$441,594.20		
Partridge Road	Local	Lake Lackawanna	2005	2018	200	12	267	95.33								\$7,032.69		
Richmond Road	Local	Lake Lackawanna	1999	2018	2,650	22	6,478	90.00							\$162,700.68	\$170,835.71		
Orchard Street	Local	Lake Lackawanna	Unknown	2013	400	15	667	74.50							\$16,744.50			
Pine Point	Local	Lake Lackawanna	Unknown	2013	338	10	376	76.83								\$9,904.37		
Lubbers Trail	Local	Lake Lackawanna	Unknown	2013	280	19	591	99.50								\$15,589.12		
Conrad Strasse	Local	Forest Lakes	2000	2015	720	24	1,920	96.17			\$39,674.12							
Crows Nest Road	Local	Forest Lakes	2000	2015	1,185	24	3,160	88.33			\$65,297.00							
Deer Run	Local	Forest Lakes	2002	2014	1,285	22	3,141	88.17		\$61,815.89								
Glen Clove Road	Local	Forest Lakes	2001	2015	1,335	22	3,263	87.67			\$67,432.24							
Harbor View Drive	Local	Forest Lakes	2001	2014	970	26	2,802	87.50		\$55,146.68								
Hemlock Road	Local	Forest Lakes	2001	2014	1,860	22	4,547	84.50		\$89,476.70								
Lake View Drive	Local	Forest Lakes	2001	2015	1,210	20	2,689	95.17		\$52,916.33								
Old Stage Coach Road	Local	Forest Lakes	2000	2015	2,980	20	6,622	89.67			\$136,838.99							
Peach Tree Street	Local	Forest Lakes	2000	2015	715	22	1,748	92.50			\$36,115.39							
The Rotunda	Local	Forest Lakes	2001	2014	1,645	24	4,387	90.67		\$86,327.96								
Sandy's Road	Local	Forest Lakes	2000	2015	1,025	22	2,506	96.67			\$51,773.81							
Sherwood Forest Drive	Local	Forest Lakes	2002	2014	3,590	22	8,776	83.33		\$172,699.64								
Sunset Way	Local	Forest Lakes	2000	2015	150	28	467	98.33			\$9,643.02							
Winding Way	Local	Forest Lakes	2021		2,160	20	4,800	87.67										
Woodlawn Drive	Local	Forest Lakes	2001	2014	185	20	411	92.17			\$8,495.04							
Woodland Road	Local	Forest Lakes	2001		1,111	20	2,469	80.67		\$48,586.81								
Frenche's Grove Road	Local	Cranberry Lake NS	2006		1,210	24	3,227	85.00		\$63,499.59								
North Shore Trail	Local	Cranberry Lake NS	2006		575	16	1,022	85.50		\$20,116.95								
Rose Trail	Local	Cranberry Lake NS	2006		805	16	1,431	83.67		\$28,163.73								
Laurel Trail	Local	Cranberry Lake NS	2006		775	16	1,378	90.67		\$27,114.15								
Meteor Trail	Local	Cranberry Lake NS	2006		1,480	17	2,796	79.33		\$55,015.49								
Bridge Trail	Local	Cranberry Lake NS	2006		215	10	239	85.17		\$4,701.24								
Grove Path	Local	Cranberry Lake NS	2006		215	10	239	0.00		\$4,701.24								
Dennis Hill Road	Local	Cranberry Lake NS	2006		880	19	1,858	80.67		\$36,560.37								
Overview	Local	Cranberry Lake NS	2005		175	14	272	96.00		\$5,357.23								
Cabin Spring Trail	Local	Cranberry Lake NS	2005		845	21	1,972	69.83		\$38,801.66								
Lakeview Trail	Local	Cranberry Lake NS	2006		1,095	14	1,703	87.83		\$33,520.96								
Tote Road	Local	Cranberry Lake NS	2005		1,290	20	2,867	88.50		\$56,414.93								

La-Bo-Ga Trail	Local	Cranberry Lake NS	2006		270	17	510	89.17		\$10,036.61								
Panther Pass	Local	Cranberry Lake NS	2005		495	17	935	87.00		\$18,400.45								
Wo-Ta-Ga Trail	Local	Cranberry Lake NS	2006		745	14	1,159	95.00		\$22,806.50								
High-To-Ga Trail	Local	Cranberry Lake NS	2005		480	15	800	92.00		\$15,743.70								
Ka-Ton-Ah Trail	Local	Cranberry Lake NS	2005		545	16	969	93.50		\$19,067.37								
Opa Pass	Local	Cranberry Lake NS	2005		140	12	187	93.33		\$3,673.53								
Allamuchy Trail	Local	Cranberry Lake NS	2006		1,290	18	2,580	81.17		\$50,773.43								
Greywood Lane	Local	Cranberry Lake NS	2006		165	16	293	89.33		\$5,772.69								
Saddle Lane	Local	Cranberry Lake NS	2020		180	22	440	100.00										
Oak Trail	Local	Cranberry Lake NS	2020		515	14	801	100.00										
Spring Trail	Local	Cranberry Lake NS	2020		190	16	338	100.00										
Hart Trail	Local	Cranberry Lake NS	2020		686	15	1,143	100.00										
Birch Trail	Local	Cranberry Lake NS	2020		605	16	1,076	100.00										
Spruce Trail	Local	Cranberry Lake NS	2020		495	17	935	100.00										
Weaver House Cove Road	Local	Cranberry Lake NS	2021		1,315	25	3,653	82.83										
Brook Trail	Local	Cranberry Lake NS	2021		320	14	498	78.00										
Hickory Trail	Local	Cranberry Lake NS	2021		215	12	287	86.00										
Fox Trail	Local	Cranberry Lake NS	2021		515	16	916	80.00										
Side Hill Trail	Local	Cranberry Lake NS	2021		450	19	950	80.67										
Boulder Trail	Local	Cranberry Lake NS	2021		260	17	491	93.33										
Hawthorne Trail	Local	Cranberry Lake NS	2021		785	18	1,570	85.00										
Landone Trail	Local	Cranberry Lake NS	2021		370	13	534	78.17										
Bald Rock Trail	Local	Cranberry Lake NS	2021		190	12	253	72.00										
Pathfinder Trail	Local	Cranberry Lake NS	2021		520	21	1,213	83.00										
Muchivo Trail	Local	Cranberry Lake NS	2021		200	13	289	81.67										
Parsons Road	Local	Cranberry Lake NS	2006		594	13	858	78.67		\$16,885.12								
Division Lane	Local	Cranberry Lake NS	2005		559	13	807	83.67		\$15,890.20								
Shon-Ga-Trail	Local	Cranberry Lake NS	2006		150	12	200	74.50		\$3,935.93								
Laurel Cove	Local	Cranberry Lake NS	2020		420	13	607	74.67										
Strawberry Point Drive	Local	Cranberry Lake NS	2020		2,840	24	7,573	100.00										
South Lake Trail	Local	Cranberry Lake NS	2021		400	12	533	100.00										
Raccoon Trail	Local	Cranberry Lake NS	2020		135	14	210	100.00										
Cliff Drive	Local	Cranberry Lake NS	2020		200	12	267	100.00										
Saugtaug Trail	Local	Cranberry Lake SS	2005		795	12	1,060	92.33		\$20,860.40								
Weasaug Trail	Local	Cranberry Lake SS	2005		380	12	507	76.17		\$9,971.01								
Maugtaug Trail	Local	Cranberry Lake SS	2005		345	12	460	79.67		\$9,052.63								
Harding Road	Local	Cranberry Lake SS	2005		610	12	813	87.00		\$16,006.10								
Hilltop Trail	Local	Cranberry Lake SS	2005		490	14	762	88.50		\$15,000.25								
Manu Trail	Local	Tamarack	2000	2019	1,375	30	4,583	92.50			\$94,708.20							
Hunters Lane	Local	Tamarack	2000	2019	1,465	26	4,232	92.83			\$87,452.97							
Colby Drive	Local	Tamarack	2002	2019	1,465	30	4,883	90.67			\$100,907.28							
Old Indian Spring Road	Local	Tamarack	2002	2019	3,050	18	6,100	83.67			\$126,048.00							
Ghost Pony Road	Local	Tamarack	2002	2019	1,960	21	4,573	64.33			\$94,501.56							
Knute Drive	Local	Tamarack	2002		375	19	792	90.33			\$16,358.69							
C. O. Drive	Local	Tamarack	2002		755	18	1,510	68.50			\$31,202.05							
Cross Trail	Local	Tamarack	2002	2013	220	21	513	89.83			\$10,607.32							
Little Paint Way	Local	Tamarack	2002		1,440	22	3,520	80.50			\$72,735.89							
Roger Drive	Local	Tamarack	2002		560	20	1,244	82.17			\$25,714.71							
Debbie Drive	Local	East Brookwood	2017		535	30	1,783	97.33										
Briar Lane	Local	East Brookwood	2019		1,775	30	5,917	100.00										
Joan Drive	Local	East Brookwood	2019		2,445	30	8,150	100.00										
Ross Road	Local	East Brookwood	2019		3,330	30	11,100	100.00										
Dogwood Lane Road	Local	East Brookwood	2009		185	16	329	91.17					\$7,492.62					
Mountain Avenue	Local	East Brookwood	2009		245	20	544	94.50					\$12,403.33					
Pleasant Hill Road	Local	East Brookwood	2009		170	17	321	84.83					\$7,315.43					
Sand Hill Road	Local	East Brookwood	2009		565	18	1,130	92.00					\$25,743.24					
Sandy Brook Road	Local	East Brookwood	2009		330	13	477	91.00					\$10,859.24					
Shady Brook Road	Local	East Brookwood	2009		320	22	782	94.83					\$17,820.29					
Stony Brook Road	Local	East Brookwood	2009		1,210	20	2,689	90.17					\$61,257.26					
Trout Brook Road	Local	East Brookwood	2009		355	17	671	88.00					\$15,276.35					
East Waterloo Road	Local	East Brookwood	2009		330	17	623	85.33					\$14,200.55					
White Birch Road	Local	East Brookwood	2009		690	22	1,687	87.17					\$38,425.01					
Wildwood Road	Local	East Brookwood	2009		445	22	1,088	88.83					\$24,781.35					
Woods Edge Road	Local	East Brookwood	2009		1,320	22	3,227	88.83					\$73,508.71					
Adair Street	Local	West Brookwood	2010		1,195	21	2,788	96.00						\$66,698.91				
Ash Street	Local	West Brookwood	2010		3,150	24	8,400	87.17						\$200,933.94				
Avon Street	Local	West Brookwood	2010		800	20	1,778	94.00						\$42,525.70				
Banker Drive	Local	West Brookwood	2010		620	18	1,240	94.67						\$29,661.68				
Beech Street	Local	West Brookwood	2009		1,675	22	4,094	78.83						\$97,942.01				
Belton Road	Local	West Brookwood	2011		3,600	20	8,000	80.67						\$191,365.66				
Broad Avenue	Local	West Brookwood	2010		1,500	20	3,333	92.17						\$79,735.69				
Byram Avenue	Local	West Brookwood	2010		330	24	880	93.67						\$20,047.83				
Cascade Avenue	Local	West Brookwood	2010		240	24	640	83.67						\$14,580.24				

Chestnut Street - Part I (River Road to River)	Local	West Brookwood	2008		500	22	1,222	93.17						\$29,236.42				
Chestnut Street - Part II (Mayne to Adair)	Local	West Brookwood	2009		1,100	22	2,689	93.67					\$61,257.26					
Chestnut Street - Part III (Ash to River)	Local	West Brookwood	2011		900	22	2,200	90.67						\$52,625.56				
Drain Way	Local	West Brookwood	2010		210	16	373	96.00						\$8,930.40				
Glen Brook Street	Local	West Brookwood	2011		250	20	556	93.33						\$13,289.28				
Lockwood Avenue	Local	West Brookwood	2008		1,725	20	3,833	95.00					\$87,329.57					
Mayne Avenue	Local	West Brookwood	2008		1,960	22	4,791	84.33					\$109,149.30					
Newton Avenue	Local	West Brookwood	2010		850	16	1,511	90.00					\$34,425.57					
River Road - Part I	Local	West Brookwood	2010		1,825	20	4,056	90.83						\$97,011.76				
River Road - Part II	Local	West Brookwood	2011		2,300	20	5,111	94.00						\$122,261.39				
River Road - Part III	Local	West Brookwood	2011		2,300	20	5,111	96.33						\$122,261.39				
Spring Brook Street	Local	West Brookwood	2011		275	18	550	95.33						\$13,156.39				
Sussex Street	Local	West Brookwood	2010		685	18	1,370	87.83					\$31,210.83					
Union Street	Local	West Brookwood	2009		1,010	16	1,796	98.33						\$42,950.96				
Lauren Court	Local	West Brookwood	Original	2012	1,010	30	3,367	86.50					\$76,698.14					
Robert Street	Local	West Brookwood	Original	2012	585	30	1,950	70.33					\$44,424.17					
Jefferson Lake Road	Local	West Brookwood	Unknown	2012	1,750	18	3,500	66.67					\$79,735.69					
Jans Way	Local	Route 206	2021		405	18	810	90.00										
Rosemaire Lane	Local	Route 206	2021		520	18	1,040	84.00										
Maple Road	Local	Route 206	2021		715	18	1,430	79.83										
Birch Road	Local	Route 206	2021		1,360	20	3,022	79.50										
Willor Drive	Local	Route 206	2021		700	20	1,556	90.67										
Drexel Drive	Local	Route 206	2021		710	23	1,814	88.33										
Francis Terrace	Local	Route 206	2021		370	22	904	92.33										
Hi Glen Drive	Local	Route 206	2021		320	31	1,102	82.83										
Pierson Drive	Local	Route 206	2021		700	22	1,711	88.50										
Ridge Place	Local	Route 206	2021		190	18	380	98.67										
Johnson Boulevard	Local	Route 206	2021		700	20	1,556	92.83										
Jones Lane	Local	Route 206	2021		690	18	1,380	87.83										
Louis Dr	Local	Route 206	2021		412	22	1,007	84.00										
Lynn Drive	Local	Lake Mohawk/Tomahawk Lake	2017		6,160	30	20,533	95.33										
Susan Lane	Local	Lake Mohawk/Tomahawk Lake	2017		635	30	2,117	94.67										
Douglas Terrace	Local	Lake Mohawk/Tomahawk Lake	2017		1,055	30	3,517	95.33										
Catherine Terrace	Local	Lake Mohawk/Tomahawk Lake	2017		620	30	2,067	94.17										
Carlisle Drive	Local	Lake Mohawk/Tomahawk Lake	2017		850	30	2,833	96.33										
Tartan Court	Local	Lake Mohawk/Tomahawk Lake	2018		400	30	1,333	96.67										
Braemar Court	Local	Lake Mohawk/Tomahawk Lake	2018		700	30	2,333	94.83										
Elizabeth Lane	Local	Lake Mohawk/Tomahawk Lake	2018		670	30	2,233	96.33										
Anderson Lane	Local	Lake Mohawk/Tomahawk Lake	Original		250	30	833	92.33					\$18,080.66					
Ascot Lane	Local	Lake Mohawk/Tomahawk Lake	Original		1,250	28	3,889	89.83					\$84,376.39					
Mara Lane	Local	Lake Mohawk/Tomahawk Lake	Original		185	28	576	76.50					\$12,487.71					
Matthew Drive	Local	Lake Mohawk/Tomahawk Lake	Original		720	28	2,240	87.83					\$48,600.80					
Carlson Lane	Local	Lake Mohawk/Tomahawk Lake	2004		480	22	1,173	85.67					\$25,457.56					
Mountain Heights	Local	Lake Mohawk/Tomahawk Lake	2004		2,400	24	6,400	86.33					\$138,859.43					
Mountain View Terrace	Local	Lake Mohawk/Tomahawk Lake	2004		300	24	800	81.17					\$17,357.43					
Circle Drive	Local	Lake Mohawk/Tomahawk Lake	2004		350	28	1,089	97.33					\$23,625.39					
Seneca Lake Road	Local	Lake Mohawk/Tomahawk Lake	2004		350	25	972	97.33					\$21,094.10					
Deer Hill Run North	Local	Lake Mohawk/Tomahawk Lake	2021		430	30	1,433	89.67										
Deer Hill Run South	Local	Lake Mohawk/Tomahawk Lake	2021		830	30	2,767	92.33										
Bridget Way	Local	Lake Mohawk/Tomahawk Lake	Original		1,415	30	4,717	81.83	\$76,080.00									
Catalina Drive	Local	Lake Mohawk/Tomahawk Lake	2015		1,753	27	5,259	96.67	\$86,949.00									
Manor Drive	Local	Lake Mohawk/Tomahawk Lake	2006		3,900	30	13,000	81.33	\$239,109.00									
Camelot Drive	Local	Lake Mohawk/Tomahawk Lake	Original		1,500	24	4,000	82.17	\$81,514.00									
Mayfair Lane	Local	Lake Mohawk/Tomahawk Lake	Original		700	22	1,711	76.50	\$43,474.00									
Birch Parkway	Local	Lake Mohawk/Tomahawk Lake	Unknown		1,200	24	3,200	66.00	\$90,000.00									
Stag Pond Road	Local	Lake Mohawk/Tomahawk Lake	Unimproved		365	14	568	79.50										
Windsor Lane	Local	Lake Mohawk/Tomahawk Lake	Original		1,732	29	5,581	83.83										
					TOTAL Length (ft)		TOTAL Area (SY)											
					275,640		717,500		\$1,041,000	\$1,568,989	\$1,422,035	\$1,002,946	\$1,126,893	\$1,359,985	\$1,008,856	\$1,156,906	\$1,333,486	\$776,905
									-\$282,254	-\$250,000	-\$250,000	-\$250,000	-\$250,000	-\$250,000	-\$250,000	-\$250,000	-\$250,000	-\$250,000
									\$758,746	\$1,318,989	\$1,172,035	\$752,946	\$876,893	\$1,109,985	\$758,856	\$906,906	\$1,083,486	\$526,905

52.20 Miles

2024

2025

2026

2027

2028

2029

2030

2031

2032

2033



HAROLD E. PELLOW & ASSOCIATES, INC.

CONSULTING ENGINEERS · PLANNERS · LAND SURVEYORS

ESTABLISHED 1969

HAROLD E. PELLOW, *PRESIDENT*
NJ – P.E. & L.S., NJ – P.P., NJ – C.M.E.

ANN PELLOW WAGNER
NJ – C.L.A., VA – C.L.A., PA – C.L.A.
(5/26/84 – 7/27/89)

DAVID B. SIMMONS, JR., *VICE PRESIDENT*
NJ – P.E. & L.S., NJ – P.P., NJ – C.M.E.
NY – P.E. & L.S., PA – P.E. & L.S.

CORY L. STONER, *EXEC. VICE PRESIDENT*
NJ – P.E., NJ – P.P., NJ – C.M.E.

MATTHEW J. MORRIS
NJ – L.L.A., NJ – P.P.

THOMAS G. KNUTELSKY, *ASSOCIATE*
NJ – P.E., NJ – P.P., NJ – C.M.E.

September 29, 2023

Updated: October 30, 2023

Via Email (jsabatini@byramtwp.org)

MEMORANDUM TO: Mr. Joseph Sabatini, Byram Township Manager

FROM: Cory L. Stoner, P.E., C.M.E., Byram Township Engineer

SUBJECT: Engineering, Construction & Other Projects for 2024
Byram Township, Sussex County

Dear Joe:

As requested, I have prepared a list of projects and engineering activities that may be considered in the 2024 Township Budget. This list takes in consideration that natural gas is being installed or is being planned for a number of areas within the Township. The neighborhoods where natural gas is being installed currently include the Stonehedge/Sparta Stanhope section of the Township (Elizabethtown Gas) and the West Brookwood section of the Township (New Jersey Natural Gas). Natural gas is scheduled in the next few years for the Tamarack Road, Forest Lake, Cranberry Lake, East Brookwood and Lake Lackawanna sections of the Township. With this in mind, it is my recommendation that the following projects be considered for 2024:

1. **Improvements to Various Roadways in the Stonehedge Road Area of the Township:**

Elizabethtown Gas has completed the gas main installation work in the Stonehedge/Sparta Stanhope Road section of the Township this past summer and is currently working to complete the gas service work in this area. Now that the gas service work is being completed, it is recommended that the following roadways in this area be targeted for resurfacing in 2024:

Construction Costs \$875,000.00

Stonehedge Lane	\$ 310,000.00
Manor Drive	\$ 220,000.00
Mayfair Lane	\$ 40,000.00
Bridget Lane	\$ 70,000.00
Sandra Lane	\$ 80,000.00
Catalina Drive	\$ 80,000.00
Camelot Drive	\$ 75,000.00

Engineering Design..... \$ 40,000.00

Construction Inspection & Management \$ 30,000.00

Asphalt Cores & Testing..... \$ 6,000.00

Total Estimated Costs..... \$ 951,000.00

A 2023 NJDOT Municipal Aid Grant was obtained for Stonehedge Trail in the amount of \$139,730.00. An additional grant was submitted for Manor Drive under the 2024 NJDOT Municipal Aid Grant program in the amount of \$225,000.00. With the success the Township has had in recent years in obtaining NJDOT Municipal Aid grants, it is anticipated that this roadway will receive grant funding for 2024.

2. **Improvements to Birch Parkway:**

Birch Parkway is a residential roadway in the Lake Mohawk section of the Township and is showing considerable deterioration. This roadway is one of the few roadways in Lake Mohawk that fall under the Township’s jurisdiction for maintenance. Birch Parkway has recently received gas service and will have drainage upgrades completed by Sussex County in early 2024. Once those improvements are made, it is recommended that the Township consider resurfacing this roadway in 2024. The estimated costs for this project are as follows:

Construction Costs	\$ 80,000.00
Surveying & Engineering Design	\$ 5,000.00
Construction Inspection & Management	\$ 5,000.00
Total Estimated Costs.....	\$ 90,000.00

3. **General Roadway Repairs:**

It is noted that since the Township has obtained additional maintenance and paving equipment, the quality of roadway patch and repairs has increased within the Township. In order to continue and expand the maintenance of the roadways, it would be my recommendation that the Township look to increase budget allotted for this work in 2024. After reviewing this issue with the Township DPW Supervisor, it is recommended that the Township consider setting aside an additional **\$20,000** for general roadway maintenance and repairs in 2024.

4. **Roadway Crack Sealing:**

It is recommended that the Township continue to perform crack sealing on major roadways within the Township. An active crack sealing program will serve to extend the life of the Township’s major roadways. Based on past experiences, it costs approximately \$10,000 per mile to have an outside contractor perform crack sealing on a typical municipal roadway. That being stated, I would recommend that the Township consider placing **\$20,000** for two miles of crack sealing in the 2023 budget. The recommended roadway for crack sealing in 2024 would be Roseville Road.

5. **Roadway Striping:**

In order to maintained the safety of the major roadways as the roadways age and the traffic stripes fade, I would again recommend that the Township consider implementing a striping plan. On an average, a newly paved roadway will last 12 to 15 years before needing to be resurfaced. The roadway stripes, however, will last about half of that period before the nighttime reflectivity deteriorates. That being said, I would recommend that striped roadways be restriped every 6 years as needed to maintain the nighttime safety of the major roadways

within the Township. For budgeting purpose, I would recommend placing **\$10,000** in the 2024 budget for roadway striping. This will allow for the restriping of approximately 3 miles of double yellow centerline striping on the major roadways.

6. Jet Vac Stormwater Cleaning Services:

In past years, the Township had an outside company perform jet vac stormwater basin/pipe cleaning in order to remove silt and sediment from various drainage systems in the Township. The cleaning of these basins and pipes has allowed the Road Department to identify basins to be repaired and has helped reduced the silt and sediment that is washing into various streams and lakes within the Township.

With approximately 850 catch basins under Township jurisdiction, I recommend that this process be continued in 2024. Assuming 10 days of jet vac services similar to what was performed in the past, it is recommended that **\$15,000.00** be budgeted for this work.

7. Various Improvements at Carl O. Johnson Park:

The last major improvements at Carl O. Johnson Park were completed in 2005. As any park ages, improvements need to be made to improve the park or address maintenance related items. A review of various improvements to be considered in 2024 include the following:

- a. Tennis Court Cracks: The tennis courts were improved in 2019 by cleaning the court surface, repairing cracks and applying a new color coating system. The majority of the cracks at that time were located at the pavement seams which separated over the years. The tennis courts now have new cracks that have occurred across the pavement surface in locations that were not repaired in 2019. Approximately 100 linear feet of cracks have occurred in the surface that should be repaired as soon as possible before they extend further across the court surface. It is estimated that the cost to repair the patches and color coat the localized repairs will be **\$10,000**.
- b. Skateboard Park: The existing skateboard park surface has aged and has significant cracks which are as wide as 2 inches in some areas. Due to the age of this surface and the width of cracks, it is my recommendation that the skateboard equipment be moved from the park and the existing pavement be milled and resurfaced. Once the pavement is resurfaced, the equipment can be replaced and the park reopened for use. It is estimated that the costs for this project would be **\$ 90,000**.
- c. Wood Beam Guiderail: In order to stop vehicles from being parked along the left side of the access road into the park (near detention basin), the Township may want to consider installing a wood beam guide rail similar to what has been installed in other sections of the park. The cost to install 240 feet of wood beam guide rail will cost approximately **\$25,000**.
- d. Access Roadway Fence Repairs: The existing black vinyl fencing along the left side of the access roadway has been damaged in various locations over the year.

Approximately 100 feet of fencing is in need of repairs. The estimated costs for repairing this fence would be **\$10,000**.

- e. Large Parking Area Patching & Oil/Stone Resurfacing: Due to budget constraints, the large upper parking areas was originally constructed gravel lot and was not surfaced with asphalt. Years later, the parking lot was surfaced with millings and topped with an oil/stone treatment. This parking lot is beginning to have potholes and is in need of surfacing. It is my recommendation that the Township minimally repair the potholes and surface the parking lot again with an oil/stone treatment. It estimated that the cost to patch the parking lot and resurface will be **\$15,000**.

Note: The Township may want to install an asphalt surface on this parking lot that will have all parking spaces line striped. If the Township wishes to consider that option, I estimated that cost would be approximately \$60,000.

- f. Playground Upgrades: The improvements that are being considered include: replacement of all playground equipment, new playground mulch surface, and replacement of existing playground edging. A summary of the estimated costs for these improvements is as follows:

Construction Costs.....	\$260,000.00
Clearing Site	\$ 20,000.00
Playground Equipment & Borders	\$ 220,000.00
Playground Mulch	\$ 20,000.00
Engineering Design, Management & Inspection	\$ 15,000.00
Total Estimated Costs	\$ 275,000.00

Note that the above price for playground equipment and borders was based on a quote dated June 14, 2023 from Ben Shaffer Recreation per the ESCNJ cooperative bids. This quote was only good for 30 days so I increased the estimated costs for these items to take account of increasing material costs and the fact that the work will occur during the 2024 construction season.

8. Miscellaneous Engineering & Surveying

a. NJDEP Municipal Stormwater Permit

Work will be continued to aid the municipality in fulfilling the requirements of the Municipal Stormwater permit. It is estimated that work performed by HPA to aid the Township in fulfilling the permit requirements will be approximately **\$3,000.00**.

b. Miscellaneous Roadway & Drainage Issues

A number of roadway and drainage issues come up each year which I assist that Township Manager and the Road Department Supervisor with. It is recommended that

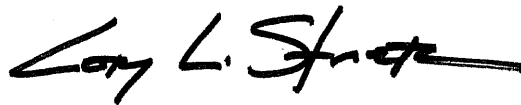
\$5,000.00 be set aside for miscellaneous work items that may come up during the year related to roadway and drainage problems in the Township.

c. **Tax Map Maintenance**

In order to continue with the maintenance of the tax maps, it is recommended that \$3,000.00 be budgeted in for miscellaneous tax map changes.

I trust this list that will aid the Mayor and Council in establishing the municipal budget for 2024. If you have any questions regarding any of the above listed items or would like to meet to discuss any of the proposed work activities in greater detail, please do not hesitate to contact me.

Very truly yours,



Cory L. Stoner, P.E., C.M.E.

HAROLD E. PELLOW & ASSOCIATES, INC.
Byram Township Engineer

CLS:cls
K:\PROJECTS\MUNICIPAL\BYRAM\COUNCIL\03-257 - COUNCIL BUSINESS\SABATINI - 2024 ENGINEERING & CONST PROJECTS.DOC

Byram Township Fire Department
6 Year Capital Project Planning Tool 2023-2027

Capital Project / Purchases	Specific Use	Is This a Replacement	Total Cost	Source of Funding	2023	2024	2025	2026	2027	2028
Replacement of Engine 1	Engine	Yes	900,000- 1,300,000	Twp Debt	900,000- 1,300,000					
SCBA Replacement - Entire Project - AFG is out	PEOSHA	Yes	\$310,000	Twp Dept / AFG			310,000			
SCBA Bottle Replacements - If Grant is Not won - 10	PEOSHA	No	\$47,000	Twp Debt		16,000				
SCBA Bottle Replacements - If Grant is Not won - 18	PEOSHA	Yes	\$550,000	Twp Debt			30,600		.	
Tanker 7 Replacement or Refurb - 25 Years old	Tanker	Yes	200,000 / 500,000	Twp Dept				200,000 / 500,000		
CAPITAL TOTAL COST					900,000- 1,300,000	\$16,000	\$340,600	200,000 / 500,000	\$0	\$0



Byram Township Fire Department

225 Route 206 - PO Box 361
Andover, NJ 07821

8/11/2023

Subject: Engine 1 Inspection

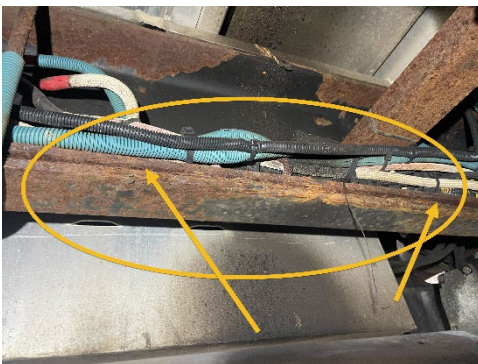
Good morning,

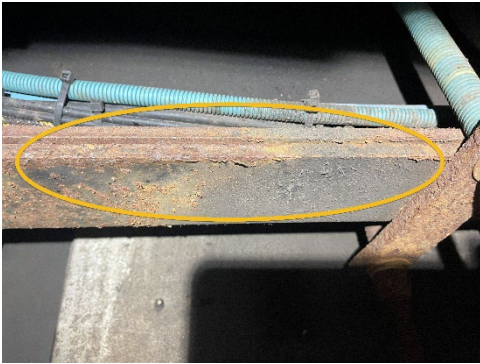
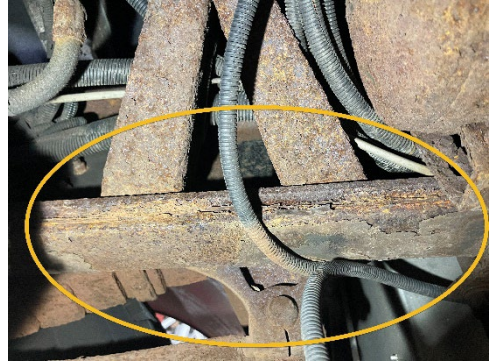
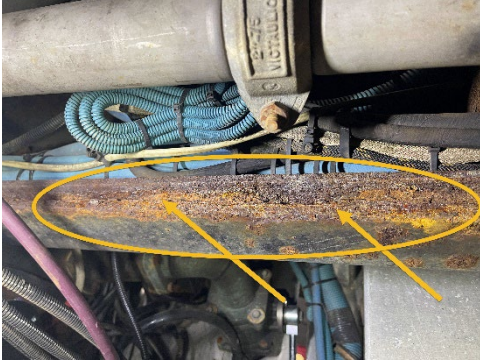
Mike Orgera and myself had the opportunity to put Engine 1 on lifts and do a full inspection. There are several areas of concern.

Engine 1: 1998 E-One

Frame rail Separation and Delamination

The Frame rail has several areas of concern. The separation is to the point a hand can be put in between the two rails; this is not normal. The amount of rust and decay found in the frame rails is also a concern. It would be recommended for this truck to remain in service to have a 3rd party testing company, UL, verify the metal density per the manufacture specification.





Oil and Hydraulic Leaks

There are several areas on the fire truck where there are several leaks. The First Picture is the Purge valve is leaking and needs a rebuild kit and a new air dryer filter. The second picture is the gear box, that is leaking and is severely rusted and will need replaced. The third picture is the motor seal, that will need to be replaced as that is leaking.





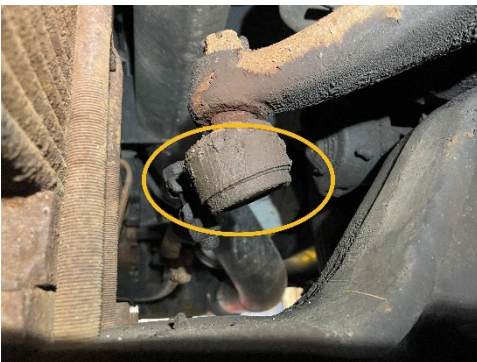
Auxiliary Cooler

The Auxiliary cooler needs immediate attention as this is about to burst. This will have to be replaced



Tie Rods

Both the Tie Rods will need to be replaced. One is already missing the boot and the other is about to lose it.



Springs

The Springs both front and back show significant signs of rust and separation. It was also found the clip holding the drivers side rear is cracked. The truck will also need front and back spring pins as they are locked and not accepting grease.



Sincerely,

Todd Rudloff
Chief of Department
Byram Township Fire Department
chief@byramfd.com
973-214-6126



November 20, 2023

Mr. Mike Orgera, Superintendent
Township of Byram
Department of Public Works
10 Mansfield Drive
Stanhope, NJ 07874

Dear Mr. Orgera:

For budget purposes, we are pleased to quote you on an Elgin Broom Badger with dual side brooms mounted on a current model Isuzu NRR chassis equipped with:

Isuzu NRR Left Hand Steer 19,500 GVWR Chassis, non-CDL
Class 5 Chassis, 109" wheelbase
Aux-engine Kubota V2403-CR-TE4B, Tier 4 Final (65 HP)
4 cubic yard hopper
Air conditioning
Power windows / door locks
Cruise Control
Chassis full LED
Vehicle stability control, electronic
AM/FM radio with CD and Bluetooth
Safety shut-down for low oil pressure built into chassis
Safety shut-down for low and high coolant temperature built into chassis
Rear axle air-bag suspension
4-wheel anti-lock disc brakes
Backup alarm, audible
Suspension drivers seat
Locking DEF cap
Variable displacement, load-sensing hydraulics
Safety Aux-engine derate for low hydraulic, oil, and coolant levels
Safety Aux-engine with derate down for high hydraulic temperature
Stainless steel fuel tank
Variable height dumping to 10'
120" sweep path
42" 5-segment LH gutter broom
42" 5-segment RH gutter broom
Gutter broom pressure adjustment from cab
Gutter broom tilt adjustment from cab
Greaseless composite bushings
58" squeegee-style elevator for loading debris
220 gallon spray water system with no solenoids
Safety camera system, rear view, in-cab color monitor
Elgin safety manual

Page 1 of 2

Chassis engine block heater & receptacle
Chassis engine idle up switch

Accessories Included:

Elevator Flusher
Hydrant Wrench
Second amber rear strobe mounted on the curbside in addition to the standard street side amber strobe
Piranha Brooms
Rear LED Arrowstick
Strip Main Broom
3 Camera System (Rear, Sidebroom, In-Hopper)
Remote grease fittings for lower roller bearings
2-3/4 Lb. Fire extinguisher
Extended training/inspection 1 year (4 visits)
Sweeper Warranty: One Year
Chassis Warranty: 5 Year Parts and Labor
Cab Paint Color: White
Sweeper Paint Color: White

The Price of This Unit Is	\$ 297,150.00
Timmerman / Sourcewell Discount	(\$ 5,745.15)
Total Quote	\$ 291,404.85
Anticipated 2024 Price Increase.....	\$ 14,857.50
Total 2024 Quote	\$ 306,262.35

****Please Note: This unit is available for purchase by formal bid or on Sourcewell contract #093021-ELG. If purchased by formal bid, we will provide detailed bid specifications for your use.***

The following optional equipment is available. Please add the corresponding cost of each item to the price quoted above.

Lifeline	\$ 5,400.00
----------	-------------

If you need any additional information or have any further questions, please contact our Account Manager, Stephen R. Bumball, or me.

Thank you for your interest in our equipment.

Very truly yours,
W.E. Timmerman Co., Inc.



Nathan H. McCraney
Sales Manager