



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 – C.M.E.

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

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

October 15, 2019

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 2020
Byram Township, Sussex County

Dear Joe:

As requested, I have put together a list of projects and engineering activities that may be considered in the 2020 Byram Township Budget. The list of these projects and activities is as follows:

1. Improvements to Whitehall Hill Road

A 2019 NJDOT Municipal Aid Grant was obtained for the Whitehall Hill Road project in the amount of \$208,000. Funds were established in the 2019 budget for the project at an estimated cost of \$295,000. Bids were received in September with the low bid coming in at \$388,637.10. The main reasons for the additional costs for the project were related to the workload of contractors in the Fall of 2019, higher costs for paving than estimated, considerable rock excavation that was required for the project, and additional guide rail work that has been required for the NJDOT under new plan review requirements. After reviewing the scope of the project, I believe it is in the Township’s best interest to proceed with the project in 2020 as originally planned. The bids for this project can be received over the winter months and a project can be ready for 2020 construction as soon as the Township budget allows.

The updated estimate for this project is as follows:

Construction Costs	\$ 395,000.00
Surveying & Engineering Design	\$ 17,500.00
Construction Inspection & Management	\$ 10,000.00
Asphalt Cores & Testing	\$ 2,500.00
Total Estimated Costs	\$ 425,000.00

2. **Improvements to North Shore Road**

North Shore Road was last resurfaced in three sections which occurred in 2004, 2007 and 2008. The last two sections were reclaimed and resurfaced and the Township received NJDOT Municipal Aid for both of those projects. The roadway is now beginning to show signs of distress and will need to be resurfaced. Since this roadway is a major connector roadway in Byram Township and serves as the only access to all of the residents on the north side of Cranberry Lake, it was decided that this roadway would be a prime candidate for the 2020 NJDOT Municipal Aid Grant program. An application was submitted for this project in the amount of \$275,000.00. It is recommended that this roadway be considered for improvements in 2020.

The estimated costs for this project are as follows:

Construction Costs	\$ 350,000.00
Surveying & Engineering Design	\$ 10,000.00
Construction Inspection & Management	\$ 10,000.00
Asphalt Cores & Testing	\$ 2,500.00
Total Estimated Costs	\$ 372,500.00

3. **Improvements to Cranberry Ledge Road & Side Streets**

The roadways in the Cranberry Lake Road section of the Township are showing signs of severe deterioration and are in need of improvements. These roadways include Cranberry Ledge Road, Saddle Lane, Oak Trail, Spring Trail, Hart Trail, Birch Trail, and Spruce Trail. To my knowledge, these roadways were last resurfaced in 1998 except for Spring Trail and Spruce Trail which were last resurfaced in 2005.

Due to the advanced state of deterioration, it is my recommendation that these roadways be considered for resurfacing in 2020. A review of the anticipated costs for improvements to these roadways are as follows:

Construction Costs	\$ 162,000.00
Cranberry Ledge Road	\$ 105,000.00
Saddle Lane	\$5,000.00
Oak Trail.....	\$10,000.00
Spring Trail.....	\$4,000.00
Hart Trail	\$15,000.00
Birch Trail	\$15,000.00
Spruce Trail	\$13,000.00
Engineering Design.....	\$ 10,000.00
Construction Inspection & Management	\$ 10,000.00
Total Estimated Costs	\$ 187,000.00

4. **Improvements to Strawberry Point Drive**

If it is decided to improve North Shore Road in 2020, it is recommended that the Township consider improving Strawberry Point Drive at the same time. Strawberry Point Drive was last resurfaced in 2004 and is also showing signs of distress and will need to be resurfaced. The estimated costs for the milling and resurfacing of this roadway are as follows:

Construction Costs	\$ 105,000.00
Surveying & Engineering Design	\$ 5,000.00
Construction Inspection & Management	\$ 5,000.00
Total Estimated Costs	\$ 115,000.00

5. **Improvements to Various Roadways**

In 2020, I also recommend that the Township consider improvements to various residential neighborhoods located along the Route 206 corridor. The roadways are all showing signs of deterioration and need attention. These roadways can be chip sealed, capped sealed, or asphalt resurfaced. It is my recommendation that the Township consider cape sealing these roadways in the same manner that the roadways were resurfaced in Lake Lackawanna section of the Township in 2018 and in the Tamarack Road section of the Township in 2019.

A review of the roadways that I am recommending for consideration in 2020, along with the last time each roadway was resurfaced and the costs for various roadway treatments is as follows:

	Last Paved	Last Chip Sealed	Cost to Chip Seal	Cost to Cape Seal	Cost to Mill & Resurface
Jans Way	2001	2011	\$3,000.00	\$6,500.00	\$15,000.00
Rosemarie Lane	2001	2011	\$3,500.00	\$7,000.00	\$20,000.00
Maple Road	2000	2012	\$4,500.00	\$10,000.00	\$25,000.00
Birch Road	2000	2012	\$8,500.00	\$19,000.00	\$50,000.00
Willor Drive	2000	2012	\$4,500.00	\$12,000.00	\$28,000.00
Drexel Drive	2001	2012	\$5,500.00	\$13,000.00	\$30,000.00
Francis Terrace	2001	2012	\$3,000.00	\$7,000.00	\$16,000.00
Hi Glen Drive	2001	2012	\$3,500.00	\$8,000.00	\$20,000.00
Pierson Drive	2002	2012	\$5,000.00	\$12,000.00	\$30,000.00
Ridge Place	2002	2012	\$1,000.00	\$2,500.00	\$6,000.00
Johnson Boulevard	2002	2012	\$5,000.00	\$13,000.00	\$30,000.00
Total Estimated Costs:			\$47,000.00	\$110,000.00	\$270,000.00

Note: The above estimated costs include engineering and inspection costs.

Also note that the estimate above includes costs for miscellaneous roadway repairs that we will need the Township Road Department to complete prior to start of construction. Each roadway shows signs of deterioration in locations and those locations will need to be repaired prior to

the improvement work being completed. These repairs include but may not be limited to repairs to drainage inlets, repairs to pavement areas that have settled near inlets, patching of severely deteriorated pavement areas, and other various repairs.

6. Improvements to Mohawk View & Lee Hill Road EMS Building Parking Lots

The Mohawk View parking lot and the Lee Hill Road EMS building parking lot are both in major need of improvements. These projects were both discussed in 2019 but it was decided that a grant would be applied for the Lee Hill Road EMS Building parking lot. Since it is anticipated that the best prices for these jobs would be obtained if they would be bid together, it was decided to hold on these projects until 2020.

The estimates for the work that is recommended at both locations are as follows:

Mohawk View Parking Lot:

Construction Costs (paving and parking space striping)	\$ 29,000.00
Engineering & Project Bidding	\$ 2,000.00
Construction Inspection & Management	\$ 2,000.00
Total Estimated Costs	\$ 33,000.00

Lee Hill Road EMS Building Parking Lot:

Construction Costs (paving and handicap parking space striping)	\$ 20,000.00
Engineering & Project Bidding	\$ 2,000.00
Construction Inspection & Management	\$ 2,000.00
Total Estimated Costs	\$ 24,000.00

7. 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 2020. Assuming 5 days of jet vac services similar to what was performed in the past, it is recommended that **\$10,000.00** be budgeted for this work.

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

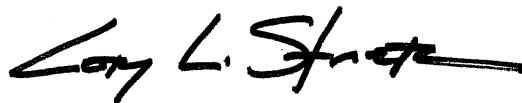
A number of roadway and drainage issues come up each year which I assist that Township Manager and the Road Department Supervisor with. It is recommended that **\$5,000.00** be set aside for miscellaneous work items that may come up during the year related to roadway and drainage problems in the Township.

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 2020. 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 - 2020 ENGINEERING & CONST PROJECTS.DOC