

TOWNSHIP OF BYRAM			CAPITAL IMPROVEMENT PROGRAM 2018-2020								
2018 CAPITAL BUDGET						5% Down Pymt					
				CAPITAL							
		2018	2018	Amounts	Capital	Grants and					
		Proposed	Budget	Reserved In	Improvement	Other	Debt	Other			
		Costs	O&E	Appropriation	Prior Years	Fund	Funds	Authorized	Funding	NOTES	
Proposed Projects	DEPT										
New Chipper for DPW	DPW	\$60,000	\$60,000	\$0	\$0	\$0	\$0	\$0	\$0		\$60,000
New Compact Loader/Backhoe for DPW	DPW	\$40,000	\$40,000	\$0	\$0	\$0	\$0	\$0	\$0		\$40,000
New Senior Van (3500 Van with wheelchair capability (9-10 passenger))	SENIORS	\$75,000	\$0	\$0	\$0	\$75,000	\$0	\$0	\$0	3500 van with wheelchair lift (9-10 passenger)	\$75,000
Mansfield Drive & Municipal Complex (DPW Area) - Mill and Resurface	ROADS	\$115,000	\$115,000	\$0	\$0	\$0	\$0	\$0	\$0		\$115,000
Roseville Road - Mill and Resurface	ROADS	\$265,000	\$40,000	\$0	\$0	\$0	\$225,000	\$0	\$0	2018 NJDOT Municipal Aid Grant	\$265,000
Tartan Court, Braierner Court and Elizabeth Lane - Mill and Resurface	ROADS	\$93,000	\$70,500	\$12,500	\$0	\$10,000	\$0	\$0	\$0		\$93,000
Drainage Inlet Repairs - Joan Drive	ROADS	\$30,000	\$0	\$30,000	\$0	\$0	\$0	\$0	\$0		\$30,000
Carpenter Road Improvements - 3.5 pavement	ROADS	\$50,000	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0		\$50,000
Lackawanna Roadways - Cap Sealing	ROADS	\$247,000	\$0	\$7,500	\$0	\$239,500	\$0	\$0	\$0		\$247,000
Alcotest Marchine - Police Dept	PD	\$20,000	\$0	\$0	\$0	\$20,000	\$0	\$0	\$0		\$20,000
Patrol (5) Car Video Camera System	PD	\$45,000	\$0	\$0	\$0	\$45,000	\$0	\$0	\$0		\$45,000
Improvements Mountain Heights Park	PARKS	\$29,100	\$0	\$0	\$0	\$0	\$0	\$0	\$29,100	PSE&G Funding	\$29,100
Tamarack Park - Irrigation	PARKS	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	Open Space Trust	\$50,000
New Engine Repalcement Engine 6	FIRE	\$450,000	\$0	\$0	\$0	\$25,000	\$0	\$425,000	\$0	Need to cancel old bond and issue new bond	\$450,000
Construction of New Municipal Building	B&G	\$7,400,000	\$0	\$0	\$0	\$400,000	\$0	\$7,000,000	\$0		\$7,400,000
Drainage Improvements		\$5,000	\$0	\$5,000	\$0	\$0	\$0	\$0	\$0	Annual approp. to reserve	\$5,000
Capital Improvements		\$25,000	\$0	\$25,000	\$0	\$0	\$0	\$0	\$0	Annual approp. to fund	\$25,000
TOTAL		\$8,999,100	\$325,500	\$130,000	\$0	\$814,500	\$225,000	\$7,425,000	\$79,100	\$8,999,100	\$8,999,100
2019 CAPITAL BUDGET						5% Down Pymt					
				CAPITAL							
		2019	2019	Amounts	Capital	Grants and					
		Proposed	Budget	Reserved In	Improvement	Other	Debt	Other			
		Costs	O&E	Appropriation	Prior Years	Fund	Funds	Authorized	Funding	NOTES	Total
Proposed Projects	DEPT										
Roseville Road - Mill and Resurface	ROADS	\$265,000	\$40,000	\$0	\$0	\$0	\$225,000	\$0	\$0	2019 NJDOT Municipal Aid Grant	\$265,000
Road Resurface Program - (Mill & Pave)	ROADS	\$432,000	\$175,500	\$100,000	\$0	\$156,500	\$0	\$0	\$0		\$432,000
DPW Equipment	DPW	\$110,000	\$110,000	\$0	\$0	\$0	\$0	\$0	\$0	Backhoe	\$110,000
Rescue Tool Upgrade	FIRE	\$30,000	\$0	\$0	\$0	\$30,000	\$0	\$0	\$0		\$30,000
Exhaust System For Apparatus	FIRE	\$87,000	\$0	\$0	\$0	\$87,000	\$0	\$0	\$0		\$87,000
Tamarack Park - Parking Lot (Paving/Surfacing)	PARKS	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	Open Space Trust - NOT RECOMMENDED BY OS COMMITTEE (Chip Seal Option = \$17,500)	\$50,000
Electronic Finger Printing System	PD	\$30,000	\$0	\$0	\$0	\$30,000	\$0	\$0	\$0		\$30,000
Drainage Improvements		\$5,000	\$0	\$5,000	\$0	\$0	\$0	\$0	\$0	Annual approp. to reserve	\$5,000
Capital Improvements		\$25,000	\$0	\$25,000	\$0	\$0	\$0	\$0	\$0	Annual approp. to fund	\$25,000
TOTAL		\$1,034,000	\$325,500	\$130,000	\$0	\$303,500	\$225,000	\$0	\$50,000	\$1,034,000	\$1,034,000

<b>2020 CAPITAL BUDGET</b>						<b>5% Down Pymt</b>					
				<b>CAPITAL</b>							
		<b>Proposed</b>	<b>2020</b>	<b>2020</b>	<b>Amounts</b>	<b>Capital</b>	<b>Grants and</b>				
		<b>Costs</b>	<b>Budget</b>	<b>Budget</b>	<b>Reserved In</b>	<b>Improvement</b>	<b>Other</b>	<b>Debt</b>	<b>Other</b>		
<b>Proposed Projects</b>			<b>O&amp;E</b>	<b>Appropriation</b>	<b>Prior Years</b>	<b>Fund</b>	<b>Funds</b>	<b>Authorized</b>	<b>Funding</b>	<b>NOTES</b>	<b>Total</b>
	<b>DEPT</b>										
Roseville Road - Mill and Resurface	ROADS	\$265,000	\$40,000	\$0	\$0	\$0	\$225,000	\$0	\$0	2018 NJDOT Municipal Aid Grant	\$265,000
Road Resurface Program - (Cape Seal)	ROADS	\$385,000	\$165,500	\$100,000	\$0	\$119,500	\$0	\$0	\$0		\$385,000
DPW Equipment	DPW	\$180,000	\$120,000	\$0	\$0	\$60,000	\$0	\$0	\$0	Loader	\$180,000
DPW Vehicle - (Truck 550)	DPW	\$75,000	\$0	\$0	\$0	\$75,000	\$0	\$0	\$0		\$75,000
High Band Pagers Upgrade	FIRE	\$25,000	\$0	\$0	\$0	\$25,000	\$0	\$0	\$0		\$25,000
Drainage Improvements		\$5,000	\$0	\$5,000	\$0	\$0	\$0	\$0	\$0	Annual approp. to reserve	\$5,000
Capital Improvements		\$25,000	\$0	\$25,000	\$0	\$0	\$0	\$0	\$0	Annual approp. to fund	\$25,000
<b>TOTAL</b>		<b>\$960,000</b>	<b>\$325,500</b>	<b>\$130,000</b>	<b>\$0</b>	<b>\$279,500</b>	<b>\$225,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$960,000</b>	<b>\$960,000</b>



## 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.  
PA – P.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.  
PA – P.E.

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

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

December 26, 2017  
Revised: January 17, 2018

Via Email ([jsabatini@byramtwp.org](mailto: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 2018  
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 2018 Byram Township Budget. The list of these projects and activities is as follows:

1. **Improvements to Mansfield Drive & Municipal Complex**

Mansfield Drive is beginning to show considerable wear and is need of improvements. This roadway is a major roadway in the Township and provides access to the Township Municipal Building, Neil Gyling Field, the Byram Township schools, and the Mansfield bike and walking trail. Additionally, a portion of the paved area within the Municipal Complex near the DPW Garage is beginning to break up and is need of repairs. It is recommended that Mansfield Drive and the section of the paved area near the DPW Garage be milled and resurfaced in 2018. A review of the estimated costs for this work is as follows:

Construction Costs .....	\$ 110,000.00
Contract Bidding, Construction Inspection & Management.....	\$ 5,000.00
<b>Total Estimated Costs .....</b>	<b>\$ 115,000.00</b>

2. **Improvements to Roseville Road**

The portion of Roseville Road between Carl O. Johnson Park and Amity Road is beginning to show signs of distress. This portion of the roadway was reclaimed back in 2008 and is an area known for clay subsoils and wet subsoils. A 2018 NJDOT Municipal Aid Grant application has been submitted for this project in the amount of \$225,000.00. It is recommended that this roadway be considered for improvements in 2018.

Construction Costs .....\$250,000.00  
Contract Bidding, Construction Inspection & Management..... \$ 15,000.00  
**Total Estimated Costs ..... \$265,000.00**

**3. Improvements to Tartan Court, Braemer Court, Elizabeth Lane and the Lee Hill Road Emergency Building Parking Lot.**

Tarton Court, Braemer Court and Elizabeth Lane are all located in the Lee Road Section of the Township. These roadways have been patched many times by the water company in the area and are showing considerable deterioration. To my knowledge the pavement on these roadways is the original pavement and the roadways have not been resurfaced since the subdivision was constructed years ago. It is my recommendation that these roadways be considered for milling and resurfacing in 2018. If these roadways are resurfaced in 2018, I would also recommend that the parking lot for the Lee Hill Road emergency building be paved while paving crews are in this section of the Township. A review of the anticipated costs to complete these improvements is as follows:

Construction Costs .....\$ 88,000.00  
Contract Bidding, Construction Inspection & Management..... \$ 5,000.00  
**Total Estimated Costs ..... \$ 93,000.00**

**4. Drainage Inlet Repairs – Joan Drive**

A number of the roadways in this section of the Township were last resurfaced back in the mid 2000's and are beginning to quickly deteriorate. This past year we asphalt resurfaced Debbie Drive and a portion of Brookwood Road due to the advanced state of deterioration of both roadways.

The next roadways to be considered for improvements in this section of the Township would include Briar lane, Joan Drive, Ross Road and Brookwood Road (Phase 3). Before we complete roadway improvements in this area, however, repairs to drainage inlets along Joan Drive are needed. A number of inlets along this roadway are very deep (10 to 20 feet in depth) and are showing signs of deterioration. Due to regulations regarding work within confined spaces, the repairs to these inlets cannot be completed by the Township DPW and will need to be completed by a certified contractor. The work would include repairs to four (4) inlet structures. I would also propose to have the project contractor retrofit the sixteen (16) drainage inlet castings located along Joan Drive. The retrofit of these inlet castings is a requirement of the Township's municipal stormwater permit. The estimated cost for the Drainage Inlet repair work along Joan Drive is **\$30,000.00** (including engineering design and inspection costs).

Please note that if these repairs are completed in 2018, I would recommend that improvements to Briar Lane, Joan Drive, Ross Road and Brookwood Road be scheduled for 2019. Waiting until 2019 for the roadway improvements will allow for any pavement repairs around the inlets to settle before paving and assure that the paving work does not need to wait until late in the year after the drainage repair work is completed.

5. Improvements to Lake Lackawanna Roadways

In 2018, I also recommending that the Township consider improvements to roadways in the Lake Lackawanna community. The roadways in the Lake Lackawanna community were last chip sealed in 2013. At that time, the roadways were becoming severely deteriorated and were patched in many locations. In 2013, roadway pavement repairs were made and the roadways were resurfaced with a chip seal surface. The chip seal resurfacing greatly slowed the deterioration that was occurring at that time. In the next year or two, these roadways will need to be chip sealed again. Since the roadways are in relatively good shape, it is my recommendation that the Township consider cape sealing these roadways in 2018.

The “cape” seal process consists of the applying a new chip seal surface to a roadway and then applying an additional layer of microsurfacing. The advantage of this procedure is to extend the length of the roadway additional years over a standard chip seal procedure and also address issues that have occurred related to loose stone, bleeding of oil and migration of loose stone into the Township drainage system. The estimated cost for “cape” sealing roadways in the Lake Lackawanna community (including engineering and inspection costs) are as follows:

Cape Sealing – Heminover Street (2105 SY) .....	\$ 12,000.00
Cape Sealing – Richmond Road (6500 SY) .....	\$ 37,000.00
Cape Sealing – Lake Drive/Reis Ave./Brown Dr. (17,725 SY) .....	\$102,000.00
Cape Sealing – Lake Drive Loop Roads (16,750 SY) .....	<u>\$ 96,000.00</u>
<b>Total Estimated Costs .....</b>	<b>\$247,000.00</b>

It should be noted that in order to mill and resurface the roadways listed above, the cost to the Township would be approximately \$500,000 and the anticipated life cycle would be approximately 12 years before additional improvements would be needed. The anticipated life cycle for this cape seal procedure is approximately 8 years.

6. Improvements to Unimproved Roadways

Carpenter Road:

Carpenter Road is a gravel roadway that is regraded and repaired yearly by the Township DPW. The repairs consist of the Township renting a grader and roller, purchase and placement of dense graded aggregate, grading of roadway to obtain a consistent surface, and the following of the dense graded aggregate in order to obtain a hard stable surface. This surface, however, is susceptible to stormwater infiltration, erosion and considerable freeze/thaw each year. Every spring the roadway has a new group of potholes ready for repair by the Township DPW.

In order to reduce the maintenance responsibilities of the Township DPW, it is recommended that the Township consider placing an asphalt surface on the roadway. The work required to place this asphalt surface would include grading the roadway gravel surface to obtain a nice

uniform surface and the repair of any potholes and/or eroded areas along the roadway. The roadway then can be surfaced with an asphalt surface.

At a minimum, I would recommend that 3.5 inches of hot mix asphalt be placed on the graded roadway surface. The cost for the placement of the hot mix asphalt surface would be approximately \$50,000.00.

Note: It is my understanding that the development of homes along Carpenter Road were approved with the knowledge that improvements to the roadway would need to be paid for by the owners of all houses that have been built along the roadway. This has not occurred over the years. The Township may wish to revisit this issue to determine if any assessment should be considered.

Stag Pond Road:

Stag Pond Road is another gravel roadway that is regraded and repaired yearly by the Township DPW. Our office is currently researching the ownership of this roadway to determine what responsibility the Township has to continue to maintain this roadway. Until this research is completed, I would recommend that the Township appropriate the funds needed to at least regrade and repair the roadway as has been done over the last few years.

Sutton Road:

Sutton Road is yet another gravel roadway that is regraded and repaired yearly by the Township DPW. I would recommend that the Township appropriate the funds needed to regrade and repair the roadway as needed again this year. If funds allow, this may be a roadway that would be a good candidate for oil and stone.

**7. Improvements to Little Paint Way**

A FEMA Hazard Mitigation Grant was originally submitted in 2013 for the construction of improvements to Little Paint Way that would address flooding that occurs along this roadway during large storm events. An approval of this grant was obtained on April 26, 2016. The improvement project as proposed included the reconstruction of approximately 250 feet of Little Paint Way in order to raise the roadway approximately 2 feet which would be higher than the flood waters that now cross over Little Paint Way during large storm events. The project would also include the construction of retaining walls to minimize fill in the flood plain areas, the construction of additional drainage pipes to convey water under Little Paint Way, guide rail and other improvements.

The original estimated cost for this project was \$125,000. The grant for the project is for \$112,500 and the remaining \$12,500.00 would be paid by the Township as a local match to this grant. Since the date of this grant submission, my office has performed preliminary engineering work to prepare the project for permitting and construction. During this preliminary engineering phase, we have determined that the estimated construction costs and permit fees

have increased since originally estimated. The estimated cost for engineering, permitting, and construction is now \$165,000. Below is a breakdown of these costs:

Construction Costs .....	\$125,000.00
Engineering Design & Permit Application Preparation .....	\$ 15,000.00
NJDEP & SCSCD Permit Fees .....	\$ 10,000.00
Construction Engineering, Inspection & Management.....	\$ 15,000.00
<b>Total Estimated Costs .....</b>	<b>\$165,000.00</b>

The FEMA Hazard Mitigation Grant is a reimbursable grant and will require that the Township bid and construct the project with its own funds. Reimbursement for all eligible activities will be capped at \$112,500.00 under the current agreement. The remaining \$52,500.00 will need to be covered by the Township.

Note: A pre-application meeting was held with the NJDEP on December 13, 2017. Based on this meeting, it is believed that the NJDEP permits will be able to be obtained and the cost estimates listed above are appropriate for the work that is proposed along Little Paint Way.

**8. Improvements to Parks**

**a. Tamarack Park - Automatic Irrigation System**

With the installation of a new well at Tamarack Park this past year, the Township can now begin irrigating the two athletic fields in 2018. The irrigation of these fields currently be accomplished by the use of the Township owned water real. While irrigation with a water real is sufficient, it is difficult to transport to the new park every time the field is to be watered and the water real needs to be moved several times in order to water each field. The watering of the large field can only be done with two passes of the water real, so manpower is needed to move the water real at least twice during each watering.

The above being stated, the Township may want to consider the installation of an automated inground irrigation system for the watering of the large athletic field. This field is the most susceptible for drying during the summery months and needs to be watered frequently to assure proper grass growth throughout the year. In automated inground irrigation system would water the field in various zones and could be controlled by a timer. The entire system would run unmanned except for the setting of the clock and periodic checking to make sure that the time of watering is sufficient for the proper growth of grass. The work involved with the installation of such a system would include the installation of a trunk line around the perimeter of the field, the installation of irrigation lines and heads within the field, and the installation of an electronic controller. It is estimated that such a system would cost approximately **\$50,000.00**.



b. **C.O. Johnson Park – Field #8 Deep Tine Aeration & Sand Top Dress**

Field #8 is a field that is heavily utilized at C.O. Johnson Park. It is also a field that drains poorly and needs frequent aeration to promote good drainage. Since it has been a number of years since the field was deep tined, it is my recommendation that the Township consider deep tining this field to help loosen the field soil. A deep tining will penetrate and work to break up the soil to depth of approximately 6 inches. I would recommend that the field be topdressed with a clean sand material to help fill the newly created tine holes and promote continued free drainage. It is estimated that work that would be involved with deep tining and top dressing Field #8 would be approximately **\$6,000.00**.

c. **Mountain Heights Park & Mohawk View Park Improvements**

Bids were received on September 14, 2017 for the proposed basketball court construction project at Mountain Heights Park located in the Tomahawk Lake section of the Township. The low base bid for the construction of the basketball court and related improvements was \$29,997.00. This project would include the construction of one (1) half court basketball court. The funds for this project were to come from an agreement with PSE&G to cover the costs of damages caused by the PSE&G Susquehanna-Roseland Project. The funds transferred to the Township were in the amount of **\$29,100.00**.

Our office has bid this project two (2) times in order to attempt to obtain bids that would allow for the reconstruction of the proposed basketball. With the new bids, we have been once again unsuccessful in doing so. Based on my review of the bids, it is my opinion that the costs for constructing a half basketball court in this location is excessive and not the wisest use of the PSE&G funds. It is my recommendation that the PSE&G funds be utilized for the resurfacing of the asphalt parking lot located at the Mohawk View Park. This parking lot is located under or adjacent to the PSE&G aerial easement a short distance from the Mountain Heights Park. It is my opinion that using these funds to resurface this parking lot will be better use of funds by the Township and provide an adequate parking lot for all the residents that use the Mohawk View Park field.

9. **Drainage System Improvements:**

a. **Jet Vac Stormwater Cleaning Services**

In 2014, 2015, 2016, and 2017 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 2018. Assuming 5 days of jet vac services similar to what was completed this year, it is recommended that **\$10,000.00** be budgeted for this work.



b. Lake Community Inlet Retrofits

An on-going concern in Byram Township is the runoff of silt and sediment into the lakes. There are a number of structural methods that serve to help address this issue. Many methods, however, include filter systems that are very expensive and hard to maintain. I therefore recommend that the Township consider starting an inlet retrofit program that would replace drainage basins with structures that would include sump or baffled bottoms that would be easy to maintain over time.

A sump bottom structure is simply a drainage basin with a bottom elevation that is position at a certain depth below the invert of the outlet pipe. With this type of structure, stormwater would plunge into the structure, silt to settle on the bottom, and stormwater would flow out of the structure with a reduced concentration of silt and sediment. An approximate cost would be \$1,200 per structure. A baffled bottom structure would be an oversized catch basin that would include two chambers separated by a concrete baffle or weir. The purpose of this structure would be the same as the sump but would include a second chamber separated by a baffle or weir. This structure would increase the level of sediment removal, would reduce the outflow of floatable solids and would cost approximately \$3,000 per structure.

The above costs assume that the Byram Township Road Department will assist in the installation of the catch basin structure. If such a program is desirable, I would recommend that the Township budget **\$15,000.00** in 2018 for the start of such a program.

c. Engineering Study of East Brookwood Estates Drainage Issues

The Council may want to consider a detailed study of the drainage problems that exist within the East Brookwood Estates section of the Township. This study would specifically review the drainage system that collects stormwater above Ross Road and conveys the stormwater toward Lubbers Run below Brookwood Drive. The study would involve a detailed review of the existing drainage network, field visits to review drainage areas, preparation of potential improvement concepts and cost estimates for budgeting purposes. It is estimated that this study will cost **\$10,000.00**.

I have reviewed the drainage issues several times and I believe that a portion of the drainage areas above Ross Road may be able to be redirected to other drainage discharge locations to the east. The study will determine whether redirecting stormwater will be practical, determine what impacts to other properties will occur, outline what environmental permits may be required, outline what work items can be completed by the Township Road Department, and provide cost estimates for future work activities.

10. **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 **\$2,000.00**.

b. **Stormwater Inlet & Outfall Mapping**

The Township's Municipal Stormwater Permit requires that all inlets and outfalls be shown on mapping to be used by the Township Road Department during the year as they clean and maintain the approximately 850 structures that exist today. My office has been including these inlets on base maps over the years but does not a fully prepared map for the Township Road Department's use. It is recommended that funding be secured so that this map can be prepared in 2018. The work to be performed will include the preparation of a GIS map with all drainage structures, outfall structures and drainage pipes located with the Township. It is estimated that work to prepare the stormwater inlet and outfall maps will be **\$3,000.00**.

c. **Miscellaneous Roadway & Drainage Issues**

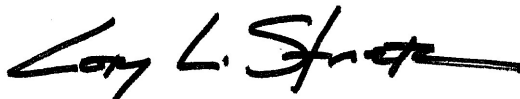
A number of roadway and drainage issues come up each year which I assist that Township Manager and the Road Department Supervisor with. It is recommended that **\$5,000.00** be set aside for miscellaneous work items that may come up during the year related to roadway and drainage problems in the Township.

d. **Tax Map Maintenance**

In order to continue with the maintenance of the tax maps, it is recommended that **\$4,000.00** 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 2018. 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

# 2018 Department of Public Works Capital Requests

Michael Orgera

Superintendent of Public Works

# 1999 John Deere 4500 Compact Loader/Backhoe

- Machine is used for seeding/fertilizing fields and small road work jobs
- Needs tires and wheels replaced at cost over \$4000.00
- Has fluid leaks from motor and attachments
- Electrical issues and lights not working
- Requesting \$40,000 for replacement



# 1991 Vermer chipper

- 27 years old
- Rust issues
- Starting to have mechanical issues
- Parts availability issues
- No safety features
- Only chipper the township has
- Would keep as a backup
- Requests \$60,000.00







[illegible]

[illegible]

**From:** [Peter Zabita](#)  
**To:** [Joe Sabatini](#)  
**Subject:** RE: CAPITAL BUDGET - RESPONSE NEEDED BY TUESDAY, OCTOBER 31  
**Date:** Monday, October 30, 2017 11:17:00 AM

---

Joe,

Here is my capital budget request for the next 5 years. You will notice many items that have been on this list for the last several years but never purchased have now come due while others have been removed for various reasons.

2018

Ford F150 pursuit rated four wheel drive pick up vehicle. Vehicle to serve multiple purposes in addition to replacing Chief's vehicle (towing radar / ATV trailers, inclement weather, firing range duties, food/supply collection drives) \$43,000

In car video camera system, 5 primary patrol cars - current system is no longer reliable and will be disconnected as of January 1, 2018 \$44,000

Alcotest - New Alcotest machine will be rolled out statewide beginning in 2018. I am unsure of whether or not we will receive our new machine in 2018 or 2019 but a plan should be solidly in place for 2018. The state dictates roll out and no plans of how the roll out will be accomplished (ie county by county, most DWI arrests etc) have been released even in rumor form \$18,000

Police Department bathroom remodel \$15,000

Hallway carpeting and identification room carpeting replaced with vinyl tile. This should be a priority due to condition and need for a flooring material that is fluid resistant in those areas \$5,000

Window replacement Police Station 11 windows estimating \$200 per window \$2,200 if installed by DPW. Current windows are not energy or security efficient

2019

Electronic fingerprint system – dependant on support existing for current system and new directives/policies/procedures that may require updated system, \$30,000

2020

Unknown needs at this time.

2021

Unknown needs at this time.

2022

Unknown needs at this time.

Please let me know if any further information is needed.

Pete

[Chief Peter J. Zabita](#)



## 4RE/VISTA Price Quote

CUSTOMER: Byram Township Police Department

ISSUED: 9/29/2017 2:31 PM

EXPIRATION: 5/31/2018 9:00 AM

10 Mansfield Dr,  
,,  
Stanhope,NJ,,  
07874-3199

**TOTAL PROJECT ESTIMATED AT:  
\$43,187.00**

ATTENTION: Chief Peter Zabita

SALES CONTACT: Wayne Koveleskie

PHONE: 973-347-4008

DIRECT: 609-410-9091

E-MAIL:

E-MAIL:  
WKoveleskie@WatchGuardVideo.com

### 4RE and VISTA Proposal

#### Evidence Library 4 Web Software and Licensing

Part Number	Detail	Qty	Direct	Discount	Total Price
KEY-EL4-SRV-001	Evidence Library 4 Web Server Site License Key	1.00	\$1,000.00	\$62.00	\$938.00
KEY-EL4-DEV-001	Evidence Library 4 Web 4RE In-Car Device License Key	6.00	\$150.00	\$7.50	\$855.00

#### 4RE In-Car System and Options

Part Number	Detail	Qty	Direct	Discount	Total Price
4RE-STD-GPS-RV2	4RE Standard DVR Camera System with integrated 200GB automotive grade hard drive, 16GB USB removable thumb drive, rear facing cabin camera, GPS, hardware, cabling and your choice of mounting bracket.	5.00	\$4,795.00	\$23.00	\$23,860.00
CAM-4RE-PAN-NHD	Front Camera, 4RE, HD Panoramic, (Reduced EMI)	5.00	\$200.00	\$0.00	\$1,000.00

#### 4RE Interview System and Options

Part Number	Detail	Qty	Direct	Discount	Total Price
4RE-STD-GPS-RV2	4RE Interview Room Camera System. Includes dome camera, microphone, DVR, integrated 200GB automotive grade hard drive, 16GB USB removable thumb drive, desktop stand & cabling, 1 yr. warranty and remote viewing software. Supports the addition of a second camera.	1.00	\$4,995.00	\$0.00	\$4,995.00
INT-AMP-CPL-M2M	RCA Coupler, Interview Room, Male to Male	1.00	\$5.00	\$0.00	\$5.00
INT-AMP-CAB-001	Audio Amplifier w/ Pwr Supply, Interview Room, Line Level (for Cabin Mic)	1.00	\$85.00	\$0.00	\$85.00

#### Wireless Video Transfer and Networking Options

Part Number	Detail	Qty	Direct	Discount	Total Price
4RE-WRL-KIT-101	MikroTik Configured Wireless Kit, 4RE In-Car 802.11n (Radio, Antenna, PoE, 2-10' Ethernet Cables)	5.00	\$200.00	\$13.00	\$935.00
WAP-MIK-CON-802	WiFi Access Point, Configured, MikroTik,	1.00	\$250.00	\$18.00	\$232.00

415 Century Parkway • Allen, TX • 75013  
Toll Free (800) 605-6734 • Main (972) 423-9777 • Fax (972) 423-9778  
[www.WatchGuardVideo.com](http://www.WatchGuardVideo.com)



## 4RE/VISTA Price Quote

802.11n, 5GHz, Sector

### 4RE Hardware Warranties

Part Number	Detail	Qty	Direct	Discount	Total Price
WAR-4RE-CAR-1ST	Warranty, 4RE, In-Car, 1st Year (Months 1-12)	6.00	\$0.00	\$0.00	\$0.00
WAR-4RE-CAR-2ND	Warranty, 4RE, In-Car, 2nd Year (Months 13-24)	6.00	\$100.00	\$100.00	\$0.00
WAR-4RE-CAR-3RD	Warranty, 4RE, In-Car, 3rd Year (Months 25-36)	6.00	\$200.00	\$200.00	\$0.00

### Software Maintenance and CLOUD-Share

Part Number	Detail	Qty	Direct	Discount	Total Price
SFW-MNT-EL4-001	Software Maintenance, Evidence Library, 1st Year (Months 1-12)	6.00	\$0.00	\$0.00	\$0.00
SFW-MNT-EL4-002	Software Maintenance, Evidence Library, 2nd Year (Months 13-24)	6.00	\$150.00	\$7.50	\$855.00
SFW-MNT-EL4-003	Software Maintenance, Evidence Library, 3rd Year (Months 25-36)	6.00	\$150.00	\$7.50	\$855.00
SFW-EL4-CLD-BAS	Evidence Library 4 Web CLOUD-SHARE - Basic	18.00	\$0.00	\$0.00	\$0.00

### Server Hardware and Software

Part Number	Detail	Qty	Direct	Discount	Total Price
HDW-4RE-SRV-003	Server, Tower, Intel i7-6700 3.4Ghz, 8GB RAM, 2x256GB SSD 6GB/S MLC drives (Boot), 4X6TB 7200 RPM HDD RAID 6, (Storage) Windows 10 Pro 64-bit, SQL Server 2012 (5CAL), 3-Year full service (on-site or reimbursed) warranty	1.00	\$4,285.00	\$430.00	\$3,855.00

### WatchGuard Video Technical Services

Part Number	Detail	Qty	Direct	Discount	Total Price
SVC-VID-REM-100	Video System Removal (Per Unit Charge)	5.00	\$100.00	\$0.00	\$500.00
SVC-4RE-INS-100	4RE System Installation, In-Car (Per Unit Charge)	5.00	\$375.00	\$0.00	\$1,875.00
SVC-4RE-ONS-400	4RE System Setup, Configuration, Testing and Training (WG-TS)	1.00	\$2,500.00	\$158.00	\$2,342.00

### Shipping and Handling

Part Number	Detail	Qty	Direct	Discount	Total Price
Freight	Shipping/Handling and Processing Charges	1.00	\$225.00	\$225.00	\$0.00
					<b>\$43,187.00</b>

Total Estimated Tax, may vary from State to State \$0.00

Configuration Discounts	\$3,008.00
Additional Quote Discount	\$0.00
<b>Total Amount</b>	<b>\$43,187.00</b>

NOTE: This is only an estimate for 4RE & VISTA related hardware, software and WG Technical Services. Actual costs related to a turn-key operation requires more detailed discussion and analysis, which will define actual back-office costs and any costs associated with configuration, support and installation. Please contact your sales representative for more details.



## 4RE/VISTA Price Quote

To accept this quotation, sign, date and return with Purchase Order: \_\_\_\_\_ DATE: \_\_\_\_\_

**Byram Township Fire Department**  
**6 Year Capital Project Planning Tool 2017-2022**

Capital Project / Purchases	Specific Use	Is This a Replacement	Total Cost	Source of Funding	2018	2019	2020	2021	2022	2023
Replace Engine 6 - 1992 E-One Engine	Engine	Yes	\$450,000	Twp. Debt	450,000					
Resue Tool Upgrade - New Car Technology	Extrication	Yes	\$30,000	Twp Debt	30000					
Exhaust System for Apparatus	PEOSHA	No	\$87,000	AFG Grant	87000					
Radio Upgrades - Mobiles, Portables	Communications	Yes	\$35,000	Twp Dept		35,000				
Exhaust System for Apparatus - if Not Received	PEOSHA	No	\$87,000	AFG Grant		87,000				
Apparatus Lighting Upgrades - Tender 7			\$8,000			8,000				
Upgrade to High Band Pagers	Communications	Yes	\$25,000	Twp Dept			25,000			
Apparatus Lighting Upgrades - Tender 5	Apparatus		\$8,000				8,000			
Replace Engine 1 1998 E-one Engine	Engine	Yes	\$500,000	Twp Debt					\$500,000	
SCBA Replacement - End Of Life	PEOSHA		\$110,000	Twp Debt / AFG						110,000
CAPITAL TOTAL COST			\$1,340,000		567,000	130,000	33,000		500,000	110,000 1,340,000



**Byram Recreation**

**Capital Improvements Program 2018 - 2020**  
Listed in order of Priority

**2017 Capital Budget**

Proposed Projects	Projected Costs	2017 Budget	Capital 2017 Appropriation	Capital Improvement Fund	Grants	Other Funding	Notes	
Tamarack Park - irrigation system & parking lot improvements	\$90,000	\$0	\$0	\$0	\$0	\$90,000	Open Space Trust	Partially accomplished
Mountain Heights basketball court	\$29,100	\$0	\$0	\$0	\$0	\$29,100	PSE&G Funds	Not accomplished
COJ Field House floor								Not accomplished
COJ Field House electric upgrade								Not accomplished
CO4 upgrade to 50/70 field		\$425 + DPW labor					Hobb Engler provides home plate & bases	
Batting cages		DPW labor					Hobb Engler provides cages & Scout provides labor	
								Baseball improvements moved to lower priority
Accessible entrance to Brookwood Trail		DPW labor					In House	

**2018 Capital Budget**

	Projected Costs	2018 Budget	Capital 2018 Appropriations	Capital Improvement Fund	Grants	Other Funds	Notes
COJ Field House electrical upgrade							
COJ Floor							
Replace/ repair COJ Announcers booth							
Accessible entrance to Brookwood Trail							In House

**2019 Capital Budget**

	Projected Costs	2019 Budget	Capital 2019 Appropriation	Capital Improvement Fund	Grants	Other Funding	Notes
Create walking path from field house behind CO1 to meet walking path between CO4/CO3							
COJ Bathrooms							

**2020 Capital Budget**

	Projected Costs	2020 Budget	Capital 2020 Appropriation	Capital Improvement Fund	Grants	Other Funding	Notes
Tamarack Park pavillion/picnic - storm shelter/ concession/bathroom							
3 kiosks at COJ, one each at Riverside, Mohawk View and Mountain View Parks							Could be built by scouts, plans In Rec office
CO4 upgrade to 50/70 field							