

New Police Radios and Portables for ultra high frequency	Police		\$40,000								NEW REQUEST
Standby Generator	Emerg	\$36,000								HMG - \$25,000 Capital Improvement Fund - \$11,000	
New Fire Engine - Replace E4	Fire	\$500,000								Reserve for Fire Dept. Equipment = \$60,000 Rerve for Fire Dept. Grant = \$49,782.16	Replacement of Engine 4 - 1988 COMPETED 2014
New Fire Engine - Replace E6	Fire		\$500,000								Replacement of Engine 6 - 1992 Fire Dept Study
New Fire Engine - Replace E1	Fire				\$500,000						Replacement of Engine 1 - 1997 Fire Dept Study
Air Vent System (Lee Hill Fire House)	Fire	\$15,000									Working on plan to purchase parts out of 2014 operating budget - intallation TBD 2015
Remount 2003 Ambulance	Squad		\$140,000							TBD - Bond Ordinance	SHIFTED TO 2015- Andove Twp did not allocate funding in 2014. Historically both towns buy an ambulance at the same time.
Remount 2009 Ambulance	Squad							\$75,000			2009 ambulance that was jointly purchased by Andover Township and Byram Township. The estimated cost of this project is \$75K per town.
New Ambulance	Squad							\$90,000			Andover Township and Byram Township to jointly purchase another ambulance at that time to maintain the fleet at 4 town-owned ambulances. Roughly a new ambulance would cost \$180K (likely a bit more at that time).
Salt Dome	B&G	\$122,300									COMPETED 2014
	TOTAL	\$1,103,300	\$1,165,000	\$810,200	\$1,049,000	\$503,000	\$415,000	\$630,000		\$5,675,500	
Proposed NJDOT GRANT:		-\$200,000	\$0	-\$150,000	\$0	-\$150,000	-\$150,000	-\$150,000		-\$800,000	
		\$903,300	\$1,165,000	\$660,200	\$1,049,000	\$353,000	\$265,000	\$480,000		\$4,875,500	

STATUS OF CAPITAL PROJECTS

as of December 16, 2014

<u>Ordinance Number</u>	<u>Project Description</u>	<u>Department</u>	<u>Original Ordinance</u>	<u>Project Balance Remaining</u>	<u>Project Status</u>	<u>Account Code</u>
GENERAL CAPITAL						
08-2007	Park Improvements	Recreation	\$ 15,900.00	\$ 15,291.25	On Going	04-215-01-406-000
10-2007	Plow Truck; Air Bottles; Underground Tanks; Bleachers	DPW; Fire; Recreat	284,100.00	34,826.35	Ongoing	04-215-01-007-000
11-2009	Fire Department Equipment	Fire	30,000.00	1,425.20	Ongoing	04-215-09-011-002
11-2009	Police Department Equipment	Police	33,000.00	31,771.25	Ongoing	04-215-09-011-003
11-2009	Various Improvements	DPW; Engineering;	557,000.00	-	Completed	04-215-09-011-000
07-2010	Well, Oil Tank, Playground Equipment	Engineering; Recre	50,000.00	5,646.66	Ongoing	04-215-10-007-001
07-2010	Various Improvements	DPW; Engineering	375,000.00	-	Completed	04-215-10-007-000
05-2011	Municipal Complex - roof, HVAC, Fencing Security Gates, Recycling Complex	DPW	260,000.00	122,873.37	Ongoing	04-215-11-005-001
05-2011	Various Improvements	Engineering	205,000.00	-	Completed	04-215-11-005-000
05-2013	DPW Vehicular Equipment - Dump Truck	DPW	160,000.00	495.50	Complete	04-215-13-005-001
05-2013	Various Improvements	Engineering	203,500.00	-	Complete	04-215-13-005-000
11-2013	Improvements to Tamarack Park	Engineering	350,000.00	281,636.75	Ongoing	04-215-13-011-001
04-2014	2014 Road Program	Engineering	100,000.00	1,384.99	Complete	04-215-55-001-001
07-2014	Amity Road and Lynn Drive	Engineering	35,000.00	16,340.74	Ongoing	04-215-55-002-001
09-2014	Pumper Fire Truck	Fire Department	460,000.00	64,355.00	Ongoing	04-215-55-003-001
09-2014	Salt Dome	DPW	140,000.00	21,157.49	Ongoing	04-215-55-003-002
SEWER CAPITAL						
02-2003	Sewer Utility Improvements	Engineering	\$ 185,000.00	\$ 22,974.95	Ongoing	06-215-09-003-000
06-2012	Improvement of the Sanitary Sewerage System	Engineering	158,000.00	37,999.93	Ongoing	06-215-12-006-000



HAROLD E. PELLOW & ASSOCIATES, INC.

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THOMAS G. KNUTELSKY
NJ – P.E.

December 11, 2014

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 Projects for 2015
Byram Township, Sussex County

Dear Joe:

As requested, I have put together a list of projects and engineering activities that are recommended for consideration in the 2015 Byram Township Budget. The list of these projects and activities is as follows:

1. Improvements to Amity Road – Phase I/II

With the completion of improvements to Roseville Road and the Tamarack Road complete, it is recommended that attention be given to Amity Road before the roadway begins to deteriorate to a point where major reconstruction is needed. The first phase of Amity Road (beginning at Roseville Road) was last improved in 2002. The second phase of Amity Road was last improved in 2004. With roadways have a typical life span of 12 to 15 years before major repairs are needed, it is recommended that the Township target Amity Road next.

Amity Road was last improved in three phases and has a total length of 2 miles. I recommend that Amity Road be broken into two parts (Phase I/II and Phase II/III) and that the part beginning at Roseville Road be targeted first. The project will be approximately 1 mile in length and will include milling and resurfacing and installing new traffic stripes. A 2015 NJDOT Local Aid Grant application has been submitted for this project in the amount of \$200,000.00 for this project.

Construction Costs	\$225,000.00
Contract Bidding, Construction Inspection & Management	\$ 5,000.00
Total Estimated Costs	\$230,000.00

Note: The limits of this project can be adjusted depending on the final amount of the NJDOT Local Aid Grant awarded to the Township.

2. **Improvements to Lynn Drive – Phase I**

While the Township has been diligent in maintaining the major roadways with the Township over the past years, the residential streets in the northern portion of the Township are beginning to show significant deterioration. One of these streets is Lynn Drive. Due to the degree of deterioration along this roadway, it is recommended that Lynn Drive be considered for milling and resurfacing. Due to the length of Lynn Drive (1.2 mile), it is recommended that the roadway improvements be constructed over two years.

Construction Costs for Phase I Improvements.....	\$145,000.00
Contract Bidding, Construction Inspection & Management.....	\$ 5,000.00
Total Estimated Costs.....	\$150,000.00

2. **Bituminous Chip Seal Resurfacing**

In order to continue with the 10 Year Roadway Improvement Plan, it is proposed that the Township continue the chip program that was started in 2012 and updated this past year with a new mechanical process. This program provides the Township with a means to extend the life of the roadways and provide the Township with a long term method of keeping up with the maintenance of its roadway infrastructure.

If it is agreed to continue with the chip seal resurfacing program, I recommend that we complete the resurfacing of roadways within the Forest Lake section of the Township. All of these roadways were last resurfaced between 2000 and 2003. A review of these roadways is as follows:

Conrad Strasse (2000).....	\$5,000.00
Crescent Drive South (2001).....	\$17,000.00
Crows Nest Road (2000).....	\$8,000.00
Forest Lake Drive North (2003)	\$32,000.00
Forest Lake Drive South (2003)	\$18,000.00
Glen Cove Road (2001)	\$9,000.00
Lake View Drive (2001)	\$7,000.00
Old Stage Coach Road (2000)	\$18,000.00
Peach Tree Street (2000)	\$5,000.00
Sandy's Road (2000)	\$7,000.00
Sleepy Hollow Road (2000)	\$44,000.00
Sunset Way (2000)	\$2,000.00

Total Estimated Oil & Stone Resurfacing Costs	\$173,000.00
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3. **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.

4. **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. **Miscellaneous Roadway Issues**

The roadway oil and stone projects will be managed by the Township Road Department during construction. While the construction activities are monitored by the Road Department, I will be responsible for the preparation of the contract documents, bidding of the project, and providing guidance regarding repair work to be completed by the Road Department prior to oil and stone resurfacing work beginning. In order to allow for this work, and allow me to assist the Road Department on other roadway items during the year, it is recommended that **\$5,000.00** be asset aside for miscellaneous engineering activities.

c. **Miscellaneous Drainage Issues**

A number of drainage issues come up each year which I assist that Township Manager and the Public Works Director with. It is recommended that **\$2,000.00** be set aside for miscellaneous work items that may come up during the year related to drainage problems in the Township.

d. Tax Map Maintenance

In order to continue with the maintenance of the tax maps, it is recommended that \$3,000.00 be budgeted in 2015 for miscellaneous tax map changes.

A summary of the above listed projects that should be considered for the 2015 Capital Budget is as follows:

Summary of Projects Recommended for Consideration in the 2015 Capital Budget:

Amity Road, Phase I/II Improvements – Construction	\$230,000.00
Lynn Drive Improvements – Construction	\$150,000.00
Oil & Stone Resurfacing	\$173,000.00
Engineering Study of East Brookwood Estates Drainage.....	\$10,000.00
Miscellaneous Engineering and Tax Map Items	\$12,000.00
	\$575,000.00
Minus 2015 NJDOT Local Aid Grant (Applied for Amount)	\$200,000.00
Total for 2015 Budget	\$375,000.00

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