

CHAPTER TWELVE: CAPITAL IMPROVEMENT PLAN

All too often, information about a municipality's future projects, facilities, and purchases exists only in the minds of public officials, not on paper. Capital improvement plans provide a structured way for municipalities to acquire public facilities or to accomplish capital projects.

Capital improvement plans help communities finance and construct needed public improvements and facilities. A properly designed plan provides a way for communities to identify and prioritize their capital needs, coordinate their scheduling, and determine the best method of paying for them.

The creation of a capital improvement plan is easier than you might think. It simply consists of written descriptions of what a community needs most in the future and an assessment of how the improvements will be paid for, given the community's ability to finance it.

Prior to the formulation of such a plan, a governing body or planning agency takes an inventory of physical equipment, public lands, and municipal structures. This inventory should include the description, location, age, condition, maintenance costs, and the anticipated replacement cost of each item inventoried. A municipality should also update its plan every year by omitting the first year and adding on a new ending year.

A capital improvement plan and a related capital budget are two key elements of sound long-range financial planning. A capital improvement plan can also be an integral part of your community's comprehensive plan.

Article V-A of the PA Municipal Planning Code provided municipalities with the authority to ensure that the cost of needed capital improvement projects be applied to new developments in a manner that will allocate equitably the cost of those improvements among property owners and to respond to the increasing difficulty municipalities face in developing revenue sources to fund such capital expenses from the public sector. A municipality desiring to implement this authority will need to either adopt their own municipal comprehensive plan or the county's, a subdivision & development ordinance or a zoning ordinance. The municipality can then enact an impact fee ordinance. Certain requirements must be abided by and such ordinances must be consistent with Article V-A.

For more information on Capital Improvement Programs, the Governor's Center for Local Government Services provides "Local Land Use Controls in Pennsylvania: Planning Series #1", which includes a section on capital improvement plans. This document is available online at www.inventpa.com/docs/Planning_Series_1.pdf, or contact the Center at (888) 223-6837.

The purpose of this chapter is not meant to be a complete municipal capital improvement listing, it is simply a start to the creation of such a plan. Municipalities are strongly encouraged to prepare a more comprehensive capital improvement plans. This chapter serves as a planning tool for further financial planning efforts.

CAPITAL IMPROVEMENT PLAN

**Chapter 12
Sewer Infrastructure**

Sewer Infrastructure Projects

Entity	Priority #1	Priority #2	Priority #3
Brisbin Borough Sewage Authority	Continued maintenance of lines	Flow monitoring	Line inspections
City of DuBois	Sanitary sewer mainline replacement	Sanitary sewer lateral replacements	Sanitary sewer manhole replacements
Huston Township Sewer Authority	Sludge disposal	Funding issues	
Kratzer Run Sewer Authority	Line extensions		
Moshannan Valley Joint Sewer Authority	Fix inflow & infiltration	Expand system	Treatment plant system
Muddy Run Regional Authority	no response		
Woodland-Bigler Area Authority	Aeration system upgrade	Biological nutrient reduction upgrade	Collection system monitoring

Projects compiled through written CCPC survey conducted Fall of 2005.

CAPITAL IMPROVEMENT PLAN

**Chapter 12
Water Infrastructure**

Water Infrastructure Projects

System Name	Priority #1 Description (Cost)	Priority #2 Description (Cost)	Priority #3 Description (Cost)
Ansonville Water Authority	Construction of interconnection with PTMA water system (\$2.4 million)	Development of new source and install filtration system (\$1.45 million)	Replacement of AC pipe mains and installation of treated water storage, fire protection facilities, and customer metering (\$420,000)
BCI Municipal Authority	Replacement of CI distribution mains in Coalport (\$1.6 million)	Installation of treated water storage tank and booster station to serve higher elevation service areas (\$470,000)	Construction of mains to loop system in Utahville and Blaine City (\$150,000)
Brady Township/ Troutville Borough Water Association	Development of new well source(s) having higher water quality (\$75,000)	Development of new well source in Troutville area (\$60,000)	Replacement of two treated water storage tanks (\$390,000)
Burnside Borough Water System	Construction of 100,000 gallon treated water storage tank to optimize system operation and provide adequate fire protection (\$260,000)	Replacement of water meters (\$34,000)	Replacement of pressure reducing valves at residences (\$12,000)
Clearfield Municipal Authority	New 20 inch transmission main for reservoir to treatment plant (\$3.2 million)	Replace two oldest treated water storage tanks (\$2.3 million)	New treatment plant at secondary reservoir (\$3.5 million)
Cooper Township Municipal Authority	Replacement of distribution mains in Grassflat service area (\$270,000)	Replacement of transmission line from reservoir (\$1.3 million)	Construction of 1.0 MG treated water storage tank at treatment facility (\$800,000)
Country Place Mobile Home Park	Installation of accurate system to monitor levels in treated water storage tank (\$18,000)	Development of another high quality well (\$85,000)	Installation of metering stations and more isolation valves in distribution system to monitor usage better and facilitate maintenance (\$15,000)

CAPITAL IMPROVEMENT PLAN

**Chapter 12
Water Infrastructure**

Water Infrastructure Projects (Continued)

System Name	Priority #1 Description (Cost)	Priority #2 Description (Cost)	Priority #3 Description (Cost)
Covington-Karthus-Girard Area Authority	Replacement of about 20 miles of AC distribution mains (\$5.6 million)	Construction of greensand filtration facility to address iron, manganese, and hydrogen sulfide within the well water (\$630,000)	Selective replacement of AC distribution mains in most problematic areas (\$550,000)
Croft Water Association	Replacement of entire distribution system (\$190,000)	Installation of residential meters (\$9,000)	Investigation of alternative source potential (\$35,000)
DuBois City Water Department	Development of plan to address upgrading or replacing aged facilities and investigate potential for supplemental /alternative sources (\$180,000)	Replacement of non-functional valves in distribution system to facilitate maintenance (\$470,000)	Construction of several service area loops to eliminate stagnant water problems (\$540,000)
Glen Hope Water Authority	Acquisition of permit and upgrades to existing spring (\$20,000)	Development of new well source (\$75,000)	Installation of treated water storage tank (\$180,000)
Grampian Borough / Penn Township Municipal Authority	Installation of main line meter pits and isolation valves to assist in detection of leaks (\$75,000)	Extensions of mains to serve residents beyond current service area. (\$160,000)	Replacement of old mains subject to leaks (\$210,000)
Houtzdale Municipal Authority	Replacement of older AC mains and installation of additional treated water storage (\$2.3 million)	Continuation of source (well) development program (\$450,000)	Installation of treatment facility operational updates (\$2.6 million)

CAPITAL IMPROVEMENT PLAN

**Chapter 12
Water Infrastructure**

Water Infrastructure Projects (Continued)

System Name	Priority #1 Description (Cost)	Priority #2 Description (Cost)	Priority #3 Description (Cost)
Huston Township	Replacement of AC mains in the village of Hovertown (\$180,000)	Extensions of mains to provide service and fire protection to residents in Woodward Road & Mountain Run Road areas (\$270,000)	Installation of isolation valves in mains to enhance leak detection and minimize areas impacted during line maintenance (\$85,000)
Irvona Municipal Authority	Replacement of about 20 miles of AC mains and CI branch lines (\$6.3 million)	Replacement of undersized creek crossing (\$240,000)	New treated water storage tank at north end of service area (\$410,000)
Pennsylvania American Water	Construction of additional pumping station for Emigh Run service area (\$420,000)	Replacement of older mains that are of inferior materials (NA)	Implement distribution water quality monitoring program to maintain highest quality for customers and assist in security assessment (NA)
Pike Township Municipal Authority	Construction of new treated water storage tank to replace existing reservoir (\$1.1 million)	Installation of distribution lines and storage tank for residents in high elevation area (\$850,000)	Replacement of about 10,000 LF of old distribution mains (\$600,000)
Quehanna Motivational Bootcamp	Replacement of potable water pneumatic system (\$120,000)	Replacement of existing fire protection system distribution lines and hydrants (\$330,000)	Extension of fire protection network to Phase 3 area (\$140,000)

CAPITAL IMPROVEMENT PLAN

**Chapter 12
Water Infrastructure**

Water Infrastructure Projects (continued)

System Name	Priority #1 Description (Cost)	Priority #2 Description (Cost)	Priority #3 Description (Cost)
Total Environmental Solutions, Inc.	Replacement of AC distribution mains in most problematic areas (\$340,000)	Construction of additional treated water storage tank to optimize system operation and provide for fire protection (\$710,000)	Installation of strategic fire hydrant network throughout development (\$320,000)
Union Township Municipal Authority	Construct main extension that will loop Home Camp Road service area (\$290,000)	Install piping to loop some of the dead ends in existing distribution system (\$65,000)	Replacement of 3,000 LF of main along Home Camp Road that has chronic leakage problems (\$180,000)
Wallaceton Municipal Authority	Construction of facilities needed to acquire bulk water from PA American Water (\$260,000)	Installation of filtration facilities for spring and correction of significant main leaks (\$610,000)	Replacement of most distribution piping and addition of fire hydrants (\$1.9 million)
Westover Municipal Authority	Extension of distribution system to serve South Main Street area (\$240,000)	Replacement of treated water storage tank at reservoir (\$330,000)	Construction of booster pump station and an extension of distribution system along East Bridge Street (\$280,000)

Projects compiled by Uni-Tec during development of County Water Supply Plan, 2005

CAPITAL IMPROVEMENT PLAN

**Chapter 12
Transportation Improvement Projects**

Transportation Improvement Projects (Short Range Candidates)

Clearfield County Highway Projects

Project Title	Type of Project	Municipality
SR 2002 Utahville Road/Maple Road	Resurfacing/Safety/Stormwater	Beccaria Township
SR 3005 St. Lawrence Road	Resurfacing/Safety/Stormwater	Beccaria Township
SR 53 Glendale Valley Blvd	Resurfacing/Safety/Stormwater	Beccaria Township
SR 53 Glen Hope Blvd	Safety Improvements	Beccaria Township
SR 2002 Utahville Road	Resurfacing/Safety/Stormwater	Beccaria Township
SR 410 Luthersburg-Troutville Rd/T-363 Evergreen Rd	Intersection Improvements	Brady Township
SR 322/US 219 and T-364 Station Hill Road	Intersection Improvements	Brady Township
SR 4011 Oklahoma-Salem/T-377 Barr Road	Intersection Improvements	Brady Township

Clearfield County Bridge Projects

Project Title	Type of Project	Municipality
Platt Road	Replacement	Sandy Township
T-891 (formerly T-550) Muddy Run Road	Replacement	Bigler Township
T-420 (formerly T-421) Curry Run Road	Replacement	Greenwood Township
T-421 Zorger Road	Replacement	Greenwood Township
West Washington Avenue	Replacement	City of DuBois
T-519 Flegal Road	Rehab	Lawrence Township
T-704 Good Street (over Beaver Run)	Rehab	Houtzdale Borough
T-419 Don Street (over Beaver Run)	Rehab	Houtzdale Borough
T-564 Alexander Run Road	Replacement	Bigler Township
SR 3011 Walltown Road	Replacement	Grampian Borough
SR 219 First Street	Replacement	Grampian Borough

CAPITAL IMPROVEMENT PLAN

**Chapter 12
Transportation Improvement Projects**

Transportation Improvement Projects (Long Range Candidates)

BRIDGE PROJECTS	HIGHWAY PROJECTS
Bennett Branch Bridge – Township Route 786	Ninth Street Intersection – State Route 53, section 248
Bridge – Township Route 315	McGees Mills to Burnside – US Route 219, 237
Bridge over Bear Run – State Route 36	Intersection of State Route 830 and US Route 219, section 251
Bridge over Clearfield Creek – State Route 153	Chestnut Grove- Anderson Creek – US Route 219, section 252
Susquehanna Avenue Bridge – State Route 453	Rockton Mountain – US Route 322, section 254
Potts Run Bridge – State Route 453	Anderson Creek – State Route 453, section 243
Lick Run Bridge – State Route 879	Bridge Resurface – State Route 879, section 247
West Branch of Susquehanna – State Route 879	Woodland to Shawville – State Route 970, section 253
Shawville Bridge – State Route 970	Old Town Road- State Route 1001. Section 256

CAPITAL IMPROVEMENT PLAN

**Chapter 12
Transportation Improvement Projects**

Transportation Improvement Projects (Long Range Candidates)

BRIDGE PROJECTS (Continued)	HIGHWAY PROJECTS (Continued)
Montgomery Run Bridge – State Route 1004	Main St., Dixon and Hospital Avenues – State Route 4019, section 255
Hawk Run Bridge – State Route 1009	
Muddy Run – State Route 2002	
Little Laurel Run – State Route 2024	
Bells Landing Bridge – State Route 3005	
Bell Run Bridge – State Route 3011	
Synder Run Bridge II – State Route 3014	
LaBorde Branch – State Route 4016	
Sandy Lick Creek – State Route 4019	

CAPITAL IMPROVEMENT PLAN

**Chapter 12
Municipal Improvement Projects**

Municipal Improvement Projects

Municipality	ShortTerm Priority 1	ShortTerm Priority 2	ShortTerm Priority 3	ShortTerm Priority 4	ShortTerm Priority 5	LongTerm Priority 1	LongTerm Priority 2	LongTerm Priority 3	LongTerm Priority 4	LongTerm Priority 5
Beccaria Twp.	Water/Se wer line extensions	Municipal Building and Equipment replacements or upgrades	Road projects: paving, dirt/gravel road surface improvements, cross drains	Records archival	Flood control	Environment al clean up: streams and dumpsites	Housing	Economic development especially of vacant industrial grounds and/or nursing home facilities	Technolog y - communic ations	Planning and development studies
Bell Township	Rails to trails Mahaffey to McGee Mills	Rt 219	Upgrade roads and bridges			Rt 219				
Bigler Township	Park & recreation center	Tear down old hotel	repair bridges in towns	Clean up streams	Flood protection for low lying homes	Park & recreation center	Tear down old hotel	repair bridges in towns	Clean up streams	Flood protection for low lying homes
Boggs Township	Water line extensions	Sewer line extensions	Paving	Zoning Regulations	Property maintenan ce enforceme nt	Desirable businesses	Desirable manufacturi ng	More water lines	More sewer lines	More paved roads

CAPITAL IMPROVEMENT PLAN

**Chapter 12
Municipal Improvement Projects**

Municipal Improvement Projects (Continued)

Municipality	ShortTerm Priority 1	ShortTerm Priority 2	ShortTerm Priority 3	ShortTerm Priority 4	ShortTerm Priority 5	LongTerm Priority 1	LongTerm Priority 2	LongTerm Priority 3	LongTerm Priority 4	LongTerm Priority 5
Bradford Township	Water line extensions	sewer extensions	improvements to Woodland Park	bridge replacement over Roaring Run	addition to municipal building	Pave township roads	additional sewage treatment plant to reach more homes	additional good paying jobs/industries	better state highways	
Brady Twp.	Bridge and Road Repair	Improve some intersections for safety reasons	Residing of the Twp. maintenance building			Sewage system community wide	New grader or loader			
Burnside Twp.	Bridge replaced on Kantz Hill	Road paving project	Brush cleared and trim along our roads			The state roads in the area paved				
Chest Township Road District	New or improved township building an equipment	Community crime watch, assist in control of illegal dumping, add composting facility for county residents	Improve road structure - install additional drainage pipes to reduce flooding	Write ordinance to control junk cars	Trails for horse back riding open to the public - increase public hunting / fishing	Encourage new businesses - positive familyminded, camping areas, salvage yards convenience stores,	Replace or improve bridge at Five points road (currently one way / widen to two way)	completion of 219 road project	Encourage or increase small family run framing / agriculture practices	Enforce and or rewrite sewage ordinances for pumping of holding tanks / privy's

CAPITAL IMPROVEMENT PLAN

**Chapter 12
Municipal Improvement Projects**

Municipal Improvement Projects (Continued)

Municipality	ShortTerm Priority 1	ShortTerm Priority 2	ShortTerm Priority 3	ShortTerm Priority 4	ShortTerm Priority 5	LongTerm Priority 1	LongTerm Priority 2	LongTerm Priority 3	LongTerm Priority 4	LongTerm Priority 5
Chester Hill Boro.	Flooding mitigation project and required studies done to prevent future flooding in wetland areas	Funding made available for new borough building and much needed new borough equipment	Have Penn dot come in and make repairs to street that they are responsible for	Have Penn dot make repairs to bridge on Presque isle St.. that has holes that are getting worse	Funds made available to improve current park, so that more children will play safely there	Council members as well as the residents feel that at this time with all of the current needs of this small borough of 920 -945 mostly retired residents that 5 - 10 years or longer is at this too far in the future				
Clearfield Borough	Completion of sanitary sewer project	Restoration of streets	Increased activity/improvement of borough parks	New drainage pipe for Stinky Run and Orrs Run		Address localized flooding issues	Rivera area revitalization	New sidewalks		
Covington Township	Bridge repairs	Fire protection from water authority improved immensely	Better quality of potable water	Industry		Completion of industrial property purchased by CCED	Sewage system			

CAPITAL IMPROVEMENT PLAN

**Chapter 12
Municipal Improvement Projects**

Municipal Improvement Projects (Continued)

Municipality	ShortTerm Priority 1	ShortTerm Priority 2	ShortTerm Priority 3	ShortTerm Priority 4	ShortTerm Priority 5	LongTerm Priority 1	LongTerm Priority 2	LongTerm Priority 3	LongTerm Priority 4	LongTerm Priority 5
Curwensville Borough	Remove debris & stabilize banks of river and Anderson creek	Develop recreation and activities on Susquehanna river	Remove Brownfield industrial blight and replace with new industry	Reconstruct municipal roadways and pedestrian walkways	Redevelop downtown business area - buildings and infrastructure	Reconstruct bridge over Susquehanna river at Irwin Park	Upgrade residential structures to acceptable conditions	Extend municipal sewage service to all structures in the boro	Upgrade and modernize community center structure (civic center)	Develop more land for commercial and industrial expansion
Decatur Twp.	Sewer and water extensions	Road and bridge improvements	Acid mine drainage cleanup for streams	Mine reclamation projects	Finish our municipal park	Mid-State airport access road	Minor zoning for our comprehensive plan	Permanent jobs that won't leave after tax-free status is up	Stream cleanup and protection from mining around these streams	Property tax relief projects
City of Dubois	DRMC Access Road					Replace local bridges				
Falls Creek Boro.	no input given									
Ferguson Twp.	Public water throughout the twp.	Funding to pave and repair roads				Same as above				

CAPITAL IMPROVEMENT PLAN

**Chapter 12
Municipal Improvement Projects**

Municipal Improvement Projects (Continued)

Municipality	ShortTerm Priority 1	ShortTerm Priority 2	ShortTerm Priority 3	ShortTerm Priority 4	ShortTerm Priority 5	LongTerm Priority 1	LongTerm Priority 2	LongTerm Priority 3	LongTerm Priority 4	LongTerm Priority 5
Goshen Twp.	Better drinking water					Better drinking water				
Graham Township	Water	Roads	Projects at the township storage sheds	Park	Cell towers	Better roads	Sewage	upgrade cable	city water	medical care
Grampian Borough	Property clean up	Replacing storm water system	Upgrading boro equipment	Pave all boro streets and repair cross cuts	Installing fire hydrants	Construction of a boro garage and office facility	Constructi on of a new fire hall	Develop industrial base	Stream control project	Construction of new facilities at the local park
Greenwood Township	Replacement of two township bridges	Development of rails to trails	Back fill a couple of old strip jobs to help water quality							
Knox Twp.	Upgrade state bridges and roads	Funds for equipment to work on roads				Sewage treatment facilities				
Lawrence Twp.	Merger between Lawrence Twp. and Clearf. Boro.	Townhouse development	Infrastructure upgrades	Commercial development	Industrial	Growth of Lock Haven, Career & Technology Centre	Brownfield and strip mine reclamation	Water and sewage line expansion		

CAPITAL IMPROVEMENT PLAN

**Chapter 12
Municipal Improvement Projects**

Municipal Improvement Projects (Continued)

Municipality	ShortTerm Priority 1	ShortTerm Priority 2	ShortTerm Priority 3	ShortTerm Priority 4	ShortTerm Priority 5	LongTerm Priority 1	LongTerm Priority 2	LongTerm Priority 3	LongTerm Priority 4	LongTerm Priority 5
Mahaffey	Restrooms at Park	New municipal building	Improve roads / add warning light at intersection	Senior center	Canoe launch	New borough equipment	Firehall paid off	Sewage line to serve Mahaffey Camp	Multi-purpose municipal building	River bank deterior. /park improve.
Morris Township	New industry	Stormwater runoff	Preserve woodlands	Retail stores	Indoor recreation	Better roads	City water	Medical care	trash/junk cars cleaned up	Economic growth
New Washington Boro.	no input given					no input given				
Osceola Mills Borough	New boro building	New sewage treatment plant	Community growth in business	Walking trail	Community spirit and growth	Abandoned houses or facilities	Less beer gardens	Improve recreation park	Grocery store	Doctor offices
Penn Twp.	Sewer line extensions	Various paving projects								
Sandy Township	(Slab?) run area sewer system extension and upgrade (exit 97 area I-80)	Develop water source in Slab Run Area	Interconnect Slab Run water services area with W.Long Ave Water area		(?) word not legible	(Swelys?) water source to serve the Industrial / Commercial & Residential Areas East of the City Limits	Improved North / South transportation corridor (219)			(?) word not legible

CAPITAL IMPROVEMENT PLAN

**Chapter 12
Municipal Improvement Projects**

Municipal Improvement Projects (Continued)

Municipality	ShortTerm Priority 1	ShortTerm Priority 2	ShortTerm Priority 3	ShortTerm Priority 4	ShortTerm Priority 5	LongTerm Priority 1	LongTerm Priority 2	LongTerm Priority 3	LongTerm Priority 4	LongTerm Priority 5
Union Twp. Road district	Road improvement s	Clean up a few trashy properties	Replace and upgrade twp. equipment	Help with bridge repairs	Remove all junk cars	Road improvements	Attracting businesses to create jobs	Replace fire equipment	Water line expansion	Sewage (public)

Projects complied through written CCPC survey conducted in the Fall of 2005