



# City of Keene, New Hampshire



**Capital  
Improvement  
Program  
2014/2015-  
2019/2020**





# CITY OF KEENE, NEW HAMPSHIRE

## 2015-2020 Capital Improvement Program

### Table of Contents

		Page
<b>Introductory Report</b>		1
<b>Capital Improvement Program Summary - All Funds</b>		5
<b>General Fund Multi-Year Projections</b>		6
<b>General Fund Program Summary</b>		8
<b>General Fund Program - FY 2015 (year 1) &amp; FY 2016 (year 2)</b>		10
<b>General Fund Program - FY 2017 (year 3) &amp; FY 2018 (year 4)</b>		11
<b>General Fund Program - FY 2019 (year 5) &amp; FY 2020 (year 6)</b>		12
<b>General Fund - Capital Improvement Program Debt Summary</b>		13
AIRPORT	Easement Acquisition	14
AIRPORT	Fuel Farm Tank Replacement	15
AIRPORT	Master Plan Update	16
AIRPORT	Pavement Maintenance	17
AIRPORT	Pavement Marking	18
AIRPORT	Runway 14/32 Reconstruction	19
AIRPORT	Runway 20 Obstruction Removal	20
AIRPORT	Runway 20 PAPI Replacement	21
AIRPORT	Taxiway A Relocation	22
ASSESSING	Tax Parcel Map Update	23
FACILITIES	City Hall Renovations	24
FACILITIES	Facilities Master Plan	25
FACILITIES	Library Windows (Floors 1 & 2)	26
FACILITIES	Replace Library Carpet	27
FACILITIES	Annex Mansards	28
FINANCE	E-community/FIAS Upgrade	29
FIRE	Fire & EMS Apparatus Schedules	30
FIRE	Ambulance Replacement Reserve	31
FIRE	Fire Apparatus Replacement Reserve	32
FIRE	Ladder 1 Replacement	33
FIRE	Defibrillator Replacement	34
FIRE	Fire Alarm System Infrastructure	35
FIRE	Mobile Radio Replacement	36
FIRE	Portable Radio Replacement	37
FIRE	West Keene Fire Station Study	38
IMS	Network Equipment Replacement	39
IMS	Oracle Database Software	41
IMS	Server Replacement	42
IMS	Storage Area Network	44
PARKS & RECREATION	Cemetery Road Repaving	45
PARKS & RECREATION	Skate Park	46
PARKS & RECREATION	Tennis Court Improvements	47
PARKS & RECREATION	Wheelock Park Improvements	48
PLANNING	Digital Base Map	49
PLANNING	Jonathan Daniels Trail Study	50
PLANNING	Land Use Code Update	51
<b>Consolidated Infrastructure Report (all years)</b>		52
PUBLIC WORKS	Airport Road Culvert	55
PUBLIC WORKS	Bridge Program	56
PUBLIC WORKS	Curb Installation	58
PUBLIC WORKS	560 Main St. Liquid Disposal Site	59
PUBLIC WORKS	Goose Pond Dam Improvements	60
PUBLIC WORKS	Road Rehabilitation	61
PUBLIC WORKS	Sidewalks - New	63

# CITY OF KEENE, NEW HAMPSHIRE

## 2015-2020 Capital Improvement Program

### Table of Contents

		Page
<b>PUBLIC WORKS</b>	Sidewalks - Replacement/Repair	67
<b>PUBLIC WORKS</b>	State By-Pass Projects	68
<b>PUBLIC WORKS</b>	Stormwater Management	70
<b>PUBLIC WORKS</b>	Storm Drainage Maintenance	71
<b>PUBLIC WORKS</b>	Stormwater Spot Repairs	72
<b>PUBLIC WORKS</b>	Stormwater System Management	73
<b>PUBLIC WORKS</b>	City Wide Stream Inventory	74
<b>PUBLIC WORKS</b>	3 Mile Dam	75
<b>Parking Fund Multi-Year Projections</b>		<b>76</b>
<b>Parking Fund Program Summary - all years</b>		<b>77</b>
<b>Parking Fund - Capital Improvement Program Debt Summary</b>		<b>78</b>
<b>PUBLIC WORKS</b>	Capital Reserves - Parking Decks/Downtown Improvements	79
<b>PUBLIC WORKS</b>	Parking Structure Maintenance	80
<b>PUBLIC WORKS</b>	Surface Parking Lot Maintenance	81
<b>Solid Waste Fund Multi-Year Projections</b>		<b>82</b>
<b>Solid Waste Fund Program Summary - all years</b>		<b>83</b>
<b>Solid Waste Fund - Capital Improvement Program Debt Summary</b>		<b>84</b>
<b>PUBLIC WORKS</b>	Capital Reserve - Recycling/Transfer Facility	85
<b>PUBLIC WORKS</b>	Recycling Equipment Replacement	86
<b>PUBLIC WORKS</b>	Three-phase Power	87
<b>PUBLIC WORKS</b>	Transfer Station Roof Repair	88
<b>PUBLIC WORKS</b>	Transfer Station Floor Repair	89
<b>Sewer Fund Multi-Year Projections</b>		<b>90</b>
<b>Sewer Fund Program Summary - all years</b>		<b>92</b>
<b>Sewer Fund - Capital Improvement Program Debt Summary</b>		<b>94</b>
<b>PUBLIC WORKS</b>	Reserve: Martell Court	95
<b>PUBLIC WORKS</b>	Reserve: Sewer Infrastructure	97
<b>PUBLIC WORKS</b>	Reserve: Wastewater Treatment Plant	99
<b>PUBLIC WORKS</b>	Laboratory Equipment Replacement	101
<b>PUBLIC WORKS</b>	Martell Court Grinder Rehabilitation	102
<b>PUBLIC WORKS</b>	Martell Court Roof Replacement	103
<b>PUBLIC WORKS</b>	Martell Court Upgrade - Phase 2	104
<b>PUBLIC WORKS</b>	Rose Lane WWTP Closure	105
<b>PUBLIC WORKS</b>	Sewer Main Improvements	106
<b>PUBLIC WORKS</b>	Sewer Structural Repair/Lining	109
<b>PUBLIC WORKS</b>	WWTP Gate & Mixer Replacement	110
<b>PUBLIC WORKS</b>	WWTP Blower Replacement	111
<b>PUBLIC WORKS</b>	WWTP Generator Replacement	112
<b>PUBLIC WORKS</b>	Grit Removal Equipment Rehabilitation	113
<b>PUBLIC WORKS</b>	NPDES Permitting	114
<b>PUBLIC WORKS</b>	WWTP Roof Replacement	115
<b>PUBLIC WORKS</b>	WWTP Sludge Pump Repair	116
<b>PUBLIC WORKS</b>	WWTP Dewatering Equipment Replacement	117
<b>PUBLIC WORKS</b>	WWTP Service (Non-potable) Water System	118
<b>Water Fund Multi-Year Projections</b>		<b>119</b>
<b>Water Fund Program Summary - all years</b>		<b>121</b>
<b>Water Fund - Capital Improvement Program Debt Summary</b>		<b>122</b>
<b>PUBLIC WORKS</b>	Capital Reserve: Water Treatment Facility	123
<b>PUBLIC WORKS</b>	Capital Reserve: Water Infrastructure	125
<b>PUBLIC WORKS</b>	Chapman Road Booster Station Generator	127
<b>PUBLIC WORKS</b>	Chlorine Injection Stations	128

**CITY OF KEENE, NEW HAMPSHIRE**  
**2015-2020 Capital Improvement Program**  
**Table of Contents**

		Page
<b>PUBLIC WORKS</b>	Dam Improvements	129
<b>PUBLIC WORKS</b>	Laboratory Equipment Replacement	130
<b>PUBLIC WORKS</b>	Water Distribution Improvements	131
<b>PUBLIC WORKS</b>	Water Main Cleaning and Lining	134
<b>PUBLIC WORKS</b>	Water Tank Mixers	135
<b>PUBLIC WORKS</b>	Water Gate Valve Replacement	136
<b>PUBLIC WORKS</b>	Watershed Management	137
<b>PUBLIC WORKS</b>	WTF PLC Replacement	138
<b>PUBLIC WORKS</b>	WTF Instrumentation Upgrade	139
<b>Equipment Fund Multi-Year Projections</b>		<b>140</b>
<b>Equipment Fund Program Summary - all years</b>		<b>141</b>
<b>PUBLIC WORKS</b>	Capital Reserve - Equipment Replacement	142
<b>PUBLIC WORKS</b>	Fuel Island Upgrade	143
<b>PUBLIC WORKS</b>	Equipment Replacement Schedule	144





# City of Keene

*New Hampshire*

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January 16, 2014

The Honorable Mayor Lane and members of the Keene City Council:

As you have come to expect, each succeeding year's version of the Capital Improvement Plan (CIP) is built on the experience and success of the previous CIP budget documents. Thus there are few surprises...with many of the projects having been under consideration for several years in advance of the actual funding being provided. This year is no different as the proposed 2014-2015 CIP envisions just the right combination of funding and planning in order to ensure a vibrant, dynamic, beautiful, and sustainable community.

This balance between frugality and spending has not been easy to achieve. It has called for reductions in operating staff and the scaling back of large capital projects, except when other revenue sources that are considered primary to the City's ability to buy down cost and reduce that which would be paid from property taxes, are also present. This can be seen in such projects as the new courthouse, the proposed ice rink, and the proposed Library Connector Project.

Other important projects currently underway include Robin Hood Dam, the Wastewater Treatment Plant Upgrades, 2013 Infrastructure Improvements, and the Beaver Brook Dredging Project.

In addition, planning is underway for Island-Pearl-Winchester Street Road & Bridge Improvements, the Bike Path including "The Round House T" and the aptly named South Bridge, and soon Wheelock Park will be examined relative to spatial concepts relating to improved facilities and new recreation opportunities.

Suffice it to say that these improvements could not be done without grants, capital campaigns, the generosity of local organizations, and the public at large.

All of this is in keeping with the City's commitment to sustainability. A future filled with promise for everyone, attracting commerce and creating jobs, while defining quality of life as a great place to live, work, and play. The following information helps to explain the details embedded in this approach to realize the City's goal to be the best community in America by the year 2028.

## **CAPITAL IMPROVEMENT PLAN:**

The focus of the CIP process is planning for our City's future. The foundation of that planning effort seeks to advance Comprehensive Master Plan (CMP) vision through its focus areas including; a quality built environment, unique natural environment, a vibrant economy, strong citizenship and proactive leadership, a creative and learning culture, and healthy community.

Guided by fiscal policy, each year anticipated capital expenditures are identified in a six-year Capital Improvement Program. It forecasts projects anticipated within that time period with an estimated cost in excess of \$20,000, and anticipated useful life of at least five years. Individual project requests are consolidated into a capital program combined with revenue and operating cost projections to provide estimated rate impacts. This capital planning process allows projects in its first year to be fully considered in context of the community's vision, values, and goals, along with impact on property taxes, water rates, and sewer rates. Following a review and public hearing process, the adopted program's first year is included in the next operating budget proposal as the capital budget.

This CIP document includes capital expenditures planned for the six-year period starting July 1, 2014, and ending June 30, 2020. This program is fluid and changes from time to time upon action of the City Council. It is a planning document that does not serve to preclude advancement of a viable project not timely in the program schedule or identified within it. It also does not bind any public body to undertaking any project. It provides the City with a tool to identify and schedule needed improvements, and to forecast and plan for the impact of those improvements.

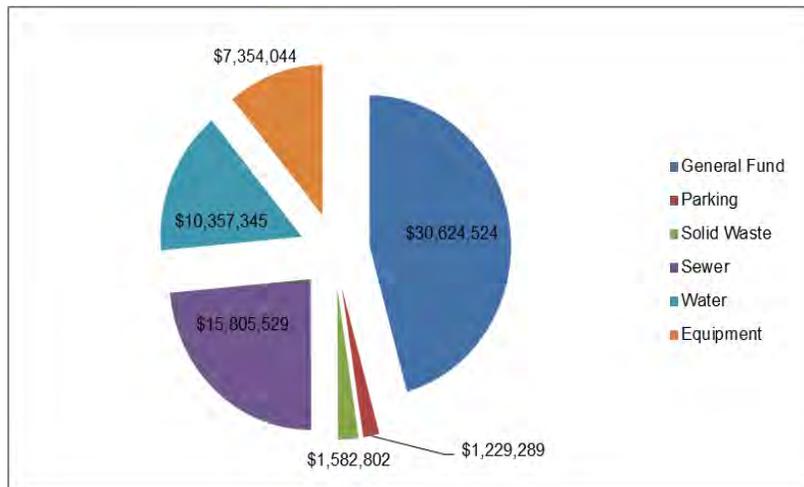
In accordance with past practice when developing projections, no growth (or reduction) in property assessments has been factored in to any year within this program. While the City's motor vehicle registrations revenue numbers are improving, overall non-tax revenue growth is projected to remain constrained in the next operating budget cycle. Non-property tax revenues are projected with annual increases that range from .5% to 1.5%, while departmental expenditures (exclusive of costs mandated by the NH Retirement System) are adjusted through application of historical averages, by portfolio, and range between 1.78% and 2.77%. Continuation of current contributions from Keene State College to support city emergency operations and the negotiated Payment in Lieu of Taxes with Cheshire Medical Center are included in these projections. No restoration of shared revenues from the State of NH has been factored into any year of this program. Continuation of the State's distribution of the Rooms & Meals Tax has been included along with distribution of highway funds derived from the Gas Tax at a reduced level as a result of legislative action discontinuing the State's motor vehicle surcharge. Additional revenue in the form of bond premium has mitigated City tax adjustments in the past two fiscal cycles. Offsetting this revenue adjustment adds 1.5% to the net property tax change projected in FY15. Budgeted use of General Fund balance is forecasted in during each year of this program. In future years, it is projected conservatively as the City will need to be attentive to this component of the financing plan ensuring General Fund unassigned fund balance is retained at levels established by fiscal policy between 7-10% of the total of the City's General Fund Budget plus the tax assessments supporting education and the county. Projections anticipate continued scrutiny of open positions and alternatives to accomplish required tasks. The further refinement of budget projections for years included in the Capital Budget and Capital Plan will take place before the Operating Budget is presented in May 2014.

In accordance with recommendations contained within a water and sewer user charges rate study presented to City Council in the summer of 2005, an annual review to ensure the financial health of these utilities has been incorporated into our operating practices. This CIP anticipates that the rates will continue to change each year of this six-year program. Since that report was presented, revised rates have been brought before the City Council annually in order to ensure the financial health of these operations.

The sale of bonds is a significant part of the CIP, representing almost 27% of its funding source, over the six-year schedule. Long term borrowing is used to finance projects that have a significant cost and are of a lasting nature. While projects are often bundled together into one annual sale in order to minimize bond issuance costs, the time over which the bonds are repaid (the term) varies based on the financed improvement's expected useful life. The City's past practice to issue bonds with a term that is significantly less than the project's useful life in order to speed the payoff, and to reduce interest costs, is viewed favorably when the City goes to market.

To move community vision forward, as envisioned by the CMP, a philosophy of seeking opportunity for strategic investments that leverage other resources and partnerships has become imbedded in our organization. Our engagement with the leadership of our employer base, through the Mayor's Presidents' Court, informs our organization's identification of priorities. Emphasis on contract management, aimed at both efficiency and effectiveness, will also assist the organization as it strives to advance community priorities. **Building a Spirit of Place**, a Community Development Program launched as part of the FY13 budget message has stimulated new partners in our effort to make our City the best in America resulting in achievement of City priorities, completing projects, and adding to our sense of community.

## HIGHLIGHTS OF THE CAPITAL PROGRAM:



Total City infrastructure and equipment investment, over the course of the next six years is approximately \$66.9 million with funding comprised of taxes, user fees, bonds, federal and State grants, and other miscellaneous sources. Almost 40% of that investment – approximately \$26.2 million – relates to the City’s sewer collection and treatment systems and the water treatment and distribution systems and is funded through user fees. With upgrades at the wastewater treatment advancing discharge standards established by the EPA underway,

attention moves to upgrades of equipment and technologies installed when the facility was built in 1985. With planned investment of \$17 million, the second largest component of the program relates to City Public Works infrastructure, primarily roads and bridges. Approximately 46% of the program requests – just over \$30.6 million – are advanced by General Fund Departments. These general fund commitments include current cash, bond proceeds, capital reserve fund contributions and expenditures, along with leveraged State and federal funding directed to road reconstruction and bridge projects. Equipment Fund activity represents approximately 11% of the program, with the Parking Fund and Solid Waste Funds each comprising approximately 2%.

Transitioning from an emergency response phase to the May 2012 flooding event that repaired, rehabilitated, or replaced streets, bridges, and other infrastructure components, this CIP cycle initiates programs focused on mitigating the impact of these more frequent and severe storm events. These programs support evaluation projects seeking to identify improvements for a particular area, spot repair and drain line cleaning, and augment work underway in the Beaver Brook system to restore it to design capacity. To advance broader programs, partnerships with residents, property owners, government agencies, State and federal officials will be required.

With accelerated ARRA investment in highway infrastructure completing a work plan focused on reconstruction of many of our City’s urban area streets, this CIP advances rehabilitation and other repair strategies maximizing the impact of the City’s investment during this planning period. This strategy, advanced to the City Council in November of 2013, incorporates an evaluation and ranking of City streets that considers condition, traffic volume, and proximity of other work when prioritizing road improvements. Responding to funding constraints and the competitiveness of the NHDOT Municipal Bridge Program, prioritization of bridge projects is also incorporated into this CIP.

Authorized through a prior year’s CIP request, a building conditions assessment focused on approximately 26 structures is nearing completion. This assessment, focused primarily on buildings occupied by employees and the public, analyzed the status of current buildings and lifecycle of building components. It will provide a tool to assist in prioritizing and estimating costs for future major maintenance needs to be incorporated into upcoming CIP cycles. It will also inform implementing the recommendations established by the Active and Passive Recreation Management Plan adopted by the City Council on June 7, 2012, as concept plans for Wheelock Park, City Hall renovations timely with relocation of the District Court, the future of the Terminal and other airport buildings, and other City priorities including the development of a Library Campus Plan.

## FINANCIAL INFORMATION & PROJECT REQUESTS:

Organization of the CIP follows the City’s fund structure and includes sections for the General Fund, Special Revenue Funds (Parking & Solid Waste), Enterprise Funds (Water & Sewer) and the Equipment

Internal Service Fund. For each fund, the presentation begins with a summary that includes multi-year projections of both operating and capital revenues and expenditures. For the General Fund and Enterprise Funds, projected tax rates, water and sewer rates are developed. These projections are followed by a summary of the fund's capital program projects requests and overall financial plan. Debt summaries, detailing current obligations and the impact of projects financed by new issues during this CIP cycle, are a portion of the financial presentation. Following the fund financial summary provided, are the project request worksheets providing supporting for each project request.

Considering priorities identified in the Comprehensive Master Plan, a department master plan, public demand for services or facilities or by operational needs, project requests are developed by City departments. Requests, in addition to articulating scope, justification, a financial plan and schedule, are aligned to a Master Plan focus area, strategy, and the values articulated by V.O.I.C.E.

When developing a project's financial plan the funding mechanisms proposed consider the capacity of its source, or fund, as well as timing relative to other projects. Projects identified as funded by long-term debt are repaid at a term that considers the anticipated useful life of that project. An amount appearing in the "Prior" column of the Financial Plan section of a request indicates amounts available from appropriations or other sources that have been determined to be available for future years' work. An estimate of the anticipated impact of a project on a department's operating budget and project status is part of each project request.

The remaining steps to be taken in the CIP process are:

- Thursday, January 16, 2014 Documents distributed to City Council, Planning Board
- Thursday, January 23, 2014 Finance, Organization & Personnel (FOP) Committee review
- Thursday, February 13, 2014 FOP Committee review
- Thursday, February 27, 2014 FOP Committee review
- Thursday, March 6, 2014 Public Hearing
- Thursday, March 13, 2014 FOP Committee develops recommendation
- Thursday, March 20, 2014 Council vote

The Planning Board will conduct its independent review at its February 2014 meeting, and will report the result of their review directly to the City Council.

Thank you for your careful consideration of this document.

Respectfully Submitted,



John A. MacLean  
City Manager

# CITY OF KEENE, NEW HAMPSHIRE

## Capital Improvement Program Summary

<u>General Fund</u>	<u>2014/2015</u>	<u>2015/2016</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>TOTAL</u>
Airport	\$ 812,000	\$ 436,000	\$ 1,848,000	\$ 50,000	\$ 2,114,000	\$ 554,000	\$ 5,814,000
Assessing	300,000	-	-	-	-	-	300,000
Facilities	25,000	519,000	55,000	20,000	20,000	20,000	659,000
Finance	186,000	-	-	-	-	-	186,000
Fire	308,500	1,089,705	531,705	1,122,000	644,500	1,322,000	5,018,410
IMS	92,000	65,500	139,000	119,800	10,000	31,000	457,300
Parks & Rec.	187,370	330,000	346,140	22,137	-	-	885,647
Planning	300,000	-	-	-	-	-	300,000
Public Works	1,869,737	1,501,182	4,688,154	4,854,108	2,421,868	1,669,118	17,004,167
<b><u>Other Funds</u></b>							
Parking	269,090	205,976	230,209	200,000	174,014	150,000	1,229,289
Solid Waste	40,000	343,701	647,351	295,000	211,750	45,000	1,582,802
Sewer	5,208,183	2,275,312	2,200,236	2,526,915	1,730,139	1,864,744	15,805,529
Water	1,412,599	2,842,489	1,437,313	1,035,378	2,381,127	1,248,439	10,357,345
Equipment	858,551	922,521	1,445,451	1,426,032	1,321,069	1,380,420	7,354,044
<b>Totals</b>	<b>\$ 11,869,030</b>	<b>\$10,531,386</b>	<b>\$13,568,559</b>	<b>\$11,671,370</b>	<b>\$11,028,467</b>	<b>\$8,284,721</b>	<b>\$66,953,533</b>
<b><u>Funding Type</u></b>							
Current Revenues	\$ 3,893,573	\$ 4,367,569	\$ 3,936,867	\$ 3,452,333	\$ 3,628,292	\$3,559,967	\$22,838,601
Bonds	3,032,859	2,139,484	2,938,856	3,179,811	3,495,395	3,119,118	17,905,523
Federal	697,500	351,000	1,620,000	-	1,800,000	-	4,468,500
State	38,750	19,500	2,354,000	2,708,800	100,000	-	5,221,050
Other	4,206,348	3,653,833	2,718,836	2,330,426	2,004,780	1,605,636	16,519,859
	<b>\$ 11,869,030</b>	<b>\$10,531,386</b>	<b>\$13,568,559</b>	<b>\$11,671,370</b>	<b>\$11,028,467</b>	<b>\$8,284,721</b>	<b>\$66,953,533</b>

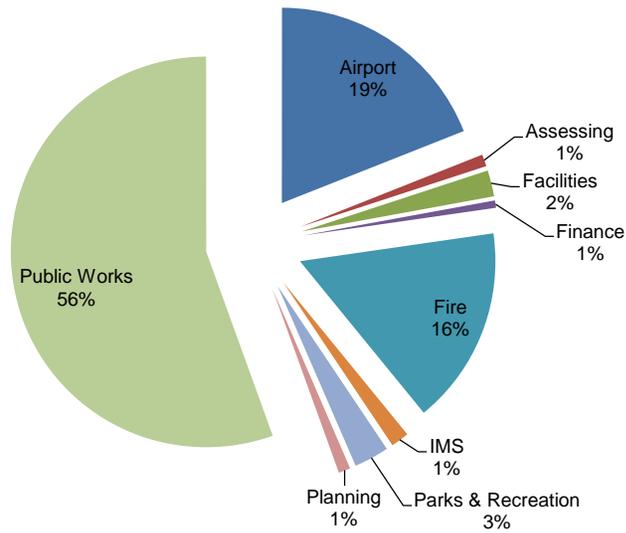
**CITY OF KEENE, NEW HAMPSHIRE  
CAPITAL IMPROVEMENT PROGRAM FY15 - FY20  
General Fund Multi-Year Projections**

	ACTUAL FY 12/13	BUDGET FY 13/14	PROJECTED FY 14/15	PROJECTED FY 15/16	PROJECTED FY 16/17	PROJECTED FY 17/18	PROJECTED FY 18/19	PROJECTED FY 19/20
<b>REVENUES</b>								
Property Tax	\$21,639,386	\$22,452,464	\$23,788,792	\$25,189,355	\$25,834,618	\$26,615,099	\$27,430,499	\$28,098,887
Other Local Taxes	131,442	377,535	377,940	379,830	381,729	383,638	385,556	387,484
Tax Increment Financing	77,340	75,475	72,614	68,414	66,109	62,156	0	0
Licenses, Permits & Fees	2,992,017	2,903,460	3,132,495	3,163,820	3,195,458	3,227,412	3,259,686	3,292,283
Intergovernmental	2,223,012	2,256,470	2,255,107	2,272,021	2,289,061	2,306,229	2,323,526	2,340,952
Charges for Services	1,440,771	1,429,694	1,455,000	1,480,754	1,506,962	1,533,636	1,560,781	1,588,407
Fines & Forfeits	161,449	168,050	169,731	171,428	173,142	174,874	176,622	178,388
Miscellaneous	1,438,035	1,438,398	1,320,520	1,302,123	1,308,633	1,315,176	1,321,752	1,328,361
Other Financing Sources	2,706,141	2,863,854	2,541,783	2,554,492	2,567,264	2,580,100	2,593,001	2,605,966
Use of Fund Balance	0	918,582	887,801	644,231	475,000	450,000	450,000	500,000
Use of Fund Balance - appropriations carried forward	0	211,804	0	0	0	0	0	0
SUBTOTAL - current revenues	\$32,809,593	\$35,095,786	\$36,001,783	\$37,226,467	\$37,797,976	\$38,648,320	\$39,501,423	\$40,320,728
Sale of Bonds	\$1,190,000	1,325,000	\$2,234,556	\$1,931,656	\$2,378,856	\$1,847,961	\$2,306,620	\$3,119,118
TOTAL REVENUES & OTHER FIN SOURCES	\$33,999,593	\$36,420,786	\$38,236,339	\$39,158,123	\$40,176,832	\$40,496,281	\$41,808,043	\$43,439,846
<b>EXPENDITURES</b>								
<b>ELECTED/APPOINTED OFFICIALS:</b>								
Mayor & City Council	\$88,802	\$114,018	\$116,822	\$118,906	\$121,027	\$123,187	\$125,384	\$127,621
City Manager	241,677	245,775	251,819	256,311	260,884	265,538	270,275	275,097
City Clerk & Elections	516,538	542,824	554,840	564,738	574,813	585,068	595,506	606,129
City Attorney	367,210	374,884	384,102	390,954	397,929	405,028	412,254	419,608
Outside Agencies	198,600	207,000	212,090	215,874	219,725	223,645	227,635	231,696
Unclassified	89,715	114,075	116,880	118,965	121,087	123,248	125,446	127,684
Employee Benefits	628,535	447,549	744,841	1,193,004	1,214,287	1,670,825	1,700,633	2,165,847
Risk Management	215,234	224,126	229,637	233,734	237,904	242,148	246,468	250,865
Total Elected/Appointed Officials	\$2,346,311	\$2,270,251	\$2,611,031	\$3,092,487	\$3,147,657	\$3,638,686	\$3,703,601	\$4,204,547
<b>ADMINISTRATIVE SERVICES:</b>								
Assessment	393,950	407,166	415,594	424,085	432,749	441,590	450,611	459,817
Finance	1,269,519	1,329,548	1,356,990	1,384,713	1,413,003	1,441,871	1,471,328	1,501,387
Human Resources	282,730	294,110	300,198	306,331	312,589	318,976	325,492	332,142
IMS	1,150,447	1,190,877	1,141,128	1,164,441	1,188,231	1,212,506	1,237,278	1,262,555
Total Administrative Services	\$3,096,646	\$3,221,701	\$3,213,910	\$3,279,570	\$3,346,572	\$3,414,942	\$3,484,710	\$3,555,902
<b>COMMUNITY SERVICES:</b>								
Fire & Ambulance	5,944,663	6,224,357	6,409,614	6,586,968	6,769,229	6,956,534	7,149,021	7,346,835
Human Services	654,747	797,760	811,669	834,128	857,208	880,927	905,302	930,352
Library	1,233,042	1,261,834	1,299,651	1,335,612	1,372,569	1,410,548	1,449,578	1,489,687
Parks, Recreation & Facilities	2,522,033	2,866,616	2,928,904	3,003,947	3,093,232	3,178,822	3,266,780	3,357,172
Police	5,852,965	6,383,351	6,625,026	6,808,340	6,996,727	7,190,327	7,389,283	7,593,744
Youth Services	136,311	139,138	133,308	136,997	140,787	144,683	148,686	152,800
Total Community Services	\$16,343,761	\$17,673,056	\$18,208,172	\$18,711,992	\$19,229,753	\$19,761,840	\$20,308,650	\$20,870,591

**CITY OF KEENE, NEW HAMPSHIRE  
CAPITAL IMPROVEMENT PROGRAM FY15 - FY20  
General Fund Multi-Year Projections**

	ACTUAL FY 12/13	BUDGET FY 13/14	PROJECTED FY 14/15	PROJECTED FY 15/16	PROJECTED FY 16/17	PROJECTED FY 17/18	PROJECTED FY 18/19	PROJECTED FY 19/20
MUNICIPAL DEVELOPMENT SERVICES:								
Airport	482,788	557,817	561,677	571,658	581,816	592,155	602,678	613,387
Health & Code Enforcement	855,184	954,558	976,036	993,380	1,011,033	1,028,999	1,047,284	1,065,894
Planning	330,319	397,843	406,794	414,023	421,380	428,868	436,489	444,245
Public Works	3,835,467	4,034,438	4,092,441	4,165,164	4,239,179	4,314,509	4,391,178	4,469,209
Total Mun. Development Services	\$5,503,758	\$5,944,655	\$6,036,948	\$6,144,225	\$6,253,407	\$6,364,530	\$6,477,628	\$6,592,736
CAPITAL:								
Debt Service (including repayment of interfund loan)	4,880,863	4,863,009	5,043,919	5,353,960	4,875,443	4,792,036	4,687,086	4,619,951
CAPITAL PROJECTS (funded by current revenues)	1,526,273	1,123,114	887,801	644,231	945,143	676,284	773,748	477,000
Total Capital	\$6,407,136	\$5,986,123	\$5,931,720	\$5,998,191	\$5,820,586	\$5,468,320	\$5,460,834	\$5,096,951
SUBTOTAL - current expenditures	\$33,697,612	\$35,095,786	\$36,001,781	\$37,226,465	\$37,797,975	\$38,648,319	\$39,435,423	\$40,320,727
CAPITAL PROJECTS (funded by bonds)	\$1,190,000	\$1,325,000	\$2,234,556	\$1,931,656	\$2,378,856	\$1,847,961	\$2,306,620	\$3,119,118
TOTAL EXPENDITURES	\$34,887,612	\$36,420,786	\$38,236,337	\$39,158,121	\$40,176,831	\$40,496,280	\$41,742,043	\$43,439,845
CITY PROPERTY TAX REVENUE INCREASE	\$	\$	\$	\$	\$	\$	\$	\$
CITY PROPERTY TAX REVENUE INCREASE (%)			5.9%	5.8%	2.5%	3.0%	3.0%	2.4%
Assessments (trended 0% per year)			1,846,896.6	1,846,896.6	1,846,896.6	1,846,896.6	1,846,896.6	1,846,896.6
ADD: Overlay		\$290,866	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000
ADD: War Service Credits		\$242,850	\$270,000	\$270,000	\$270,000	\$270,000	\$270,000	\$270,000
Property Tax Rate - City share		\$12.45	\$13.19	\$13.95	\$14.30	\$14.72	\$15.16	\$15.52
city tax rate increase (decrease)			5.94%	5.76%	2.51%	2.94%	2.99%	2.37%
CAPITAL (current) & DEBT AS % OF BUDGET		17.0%	16.4%	16.1%	15.3%	14.1%	13.8%	12.6%
GENERAL FUND INCREASE (Excluding bonds)		4.1%	2.6%	3.4%	1.5%	2.2%	2.0%	2.2%
GENERAL FUND INCREASE (Including bonds)		4.4%	5.0%	2.4%	2.6%	0.8%	3.1%	4.1%

General Fund CIP 2015 - 2020 Summary by Department



<b>Department</b>	<b>2014/2015</b>	<b>2015/2016</b>	<b>2016/2017</b>	<b>2017/2018</b>	<b>2018/2019</b>	<b>2019/2020</b>	<b>TOTAL</b>
Airport	812,000	436,000	1,848,000	50,000	2,114,000	554,000	<b>\$ 5,814,000</b>
Assessing	300,000	-	-	-	-	-	<b>\$ 300,000</b>
Facilities	25,000	519,000	55,000	20,000	20,000	20,000	<b>\$ 659,000</b>
Finance	186,000	-	-	-	-	-	<b>\$ 186,000</b>
Fire	308,500	1,089,705	531,705	1,122,000	644,500	1,322,000	<b>\$ 5,018,410</b>
IMS	92,000	65,500	139,000	119,800	10,000	31,000	<b>\$ 457,300</b>
Parks & Recreation	187,370	330,000	346,140	22,137	-	-	<b>\$ 885,647</b>
Planning	300,000	-	-	-	-	-	<b>\$ 300,000</b>
Public Works	1,869,737	1,501,182	4,688,154	4,854,108	2,421,868	1,669,118	<b>\$ 17,004,167</b>
<b>Total</b>	<b>\$4,080,607</b>	<b>\$3,941,387</b>	<b>\$7,607,999</b>	<b>\$6,188,045</b>	<b>\$5,210,368</b>	<b>\$ 3,596,118</b>	<b>\$ 30,624,524</b>

# CITY OF KEENE, NEW HAMPSHIRE

## General Fund 2015 - 2020 Capital Improvement Program Summary

Dept.	Project Name	2014/2015	2015/2016	2016/2017	2017/2018	2018/2019	2019/2020	TOTAL
Airport	Easement Acquisition	600,000	-	-	-	-	-	600,000
Airport	Fuel Farm	-	-	-	-	40,000	500,000	540,000
Airport	Master Plan Update	175,000	-	-	-	-	-	175,000
Airport	Pavement Maintenance	25,000	46,000	48,000	50,000	52,000	54,000	275,000
Airport	Pavement Marking	12,000	-	-	-	22,000	-	34,000
Airport	Runway 14/32 Reconstruction	-	200,000	1,800,000	-	-	-	2,000,000
Airport	Runway 20 Obstruction Removal	-	140,000	-	-	-	-	140,000
Airport	Runway 20 PAPI Replacement	-	50,000	-	-	-	-	50,000
Airport	Taxiway A Relocation	-	-	-	-	2,000,000	-	2,000,000
	<b>TOTAL AIRPORT</b>	\$ 812,000	\$ 436,000	\$ 1,848,000	\$ 50,000	\$ 2,114,000	\$ 554,000	\$ 5,814,000
Assessing	Tax Parcel Boundary Correction	300,000	-	-	-	-	-	300,000
	<b>TOTAL ASSESSING</b>	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000
Facilities	City Hall Renovations	25,000	200,000	-	-	-	-	225,000
Facilities	Facilities Master Plan	-	-	20,000	20,000	20,000	20,000	80,000
Facilities	Library Windows (Floors 1 & 2)	-	100,000	-	-	-	-	100,000
Facilities	Library Carpet	-	-	35,000	-	-	-	35,000
Facilities	Mansard Renovation - Library Annex	-	219,000	-	-	-	-	219,000
	<b>TOTAL FACILITIES</b>	\$ 25,000	\$ 519,000	\$ 55,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 659,000
Finance	Ecommunity/FIAS Upgrade	186,000	-	-	-	-	-	186,000
	<b>TOTAL FINANCE</b>	\$ 186,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 186,000
Fire	Ambulance Replacement	-	215,000	-	-	230,000	-	445,000
Fire	Apparatus Replacement	-	450,000	-	710,000	-	-	1,160,000
Fire	Capital Reserve Ambulance Replacement	70,000	70,000	72,500	75,000	77,500	80,000	445,000
Fire	Capital Reserve Apparatus Replacement	215,000	245,000	290,000	295,000	295,000	200,000	1,540,000
Fire	Ladder 1 Replacement	-	-	-	-	-	1,000,000	1,000,000
Fire	Defibrillator Replacement	-	66,205	66,205	-	-	-	132,410
Fire	Fire Alarm System Infrastructure	-	-	50,000	-	-	-	50,000
Fire	Mobile Radio Replacement	23,500	23,500	23,000	-	-	-	70,000
Fire	Portable Radio Replacement	-	-	30,000	42,000	42,000	42,000	156,000
Fire	West Keene Fire Station Study	-	20,000	-	-	-	-	20,000
	<b>TOTAL FIRE</b>	\$ 308,500	\$ 1,089,705	\$ 531,705	\$ 1,122,000	\$ 644,500	\$ 1,322,000	\$ 5,018,410
IMS	Network Equipment Replacement	89,000	21,000	-	55,800	-	-	165,800
IMS	Oracle Database Software	-	-	86,000	-	-	-	86,000
IMS	Server Replacement	3,000	44,500	53,000	3,000	10,000	31,000	144,500
IMS	Storage Area Network	-	-	-	61,000	-	-	61,000
	<b>TOTAL IMS</b>	\$ 92,000	\$ 65,500	\$ 139,000	\$ 119,800	\$ 10,000	\$ 31,000	\$ 457,300
Parks & Rec.	Cemetery Roads Repaving	-	-	36,140	22,137	-	-	58,277
Parks & Rec.	Skate Park	162,500	-	-	-	-	-	162,500
Parks & Rec.	Tennis Court Improvements	24,870	-	-	-	-	-	24,870
Parks & Rec.	Wheelock Park Improvements	-	330,000	310,000	-	-	-	640,000
	<b>TOTAL PARKS &amp; RECREATION</b>	\$ 187,370	\$ 330,000	\$ 346,140	\$ 22,137	\$ -	\$ -	\$ 885,647
Planning	Digital Base Map	180,000	-	-	-	-	-	180,000
Planning	Jonathan Daniels Trail Study	20,000	-	-	-	-	-	20,000
Planning	Land Use Code	100,000	-	-	-	-	-	100,000
	<b>TOTAL PLANNING</b>	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000
Public Works	Airport Road Culvert Repair	130,000	-	-	-	-	-	130,000
Public Works	Bridge Program	130,000	-	-	920,000	-	-	1,050,000
Public Works	Curb Installation	47,146	58,177	59,922	61,720	63,571	65,478	356,014
Public Works	560 Main Street Assessment	65,000	-	-	-	-	-	65,000
Public Works	Goose Pond Dam Improvements	-	-	106,389	-	879,400	-	985,789
Public Works	Road Rehabilitation	1,167,118	1,171,920	1,229,047	1,169,601	1,236,507	1,422,684	7,396,877
Public Works	Sidewalks - New	-	-	231,449	-	-	-	231,449
Public Works	Sidewalks - Replacement/Repair	47,146	58,177	59,922	61,720	63,571	65,478	356,014
Public Works	State By-Pass Projects	-	-	2,830,000	2,466,000	-	-	5,296,000
Public Works	Storm Drainage Maintenance	101,681	104,731	61,503	63,347	65,248	-	396,510
Public Works	Stormwater Drainage Spot Repair Program	47,146	58,177	59,922	61,720	63,571	65,478	356,014
Public Works	Stormwater System Management	50,000	50,000	50,000	50,000	50,000	50,000	300,000
Public Works	Stream Inventory	25,000	-	-	-	-	-	25,000
Public Works	3 Mile Dam	59,500	-	-	-	-	-	59,500
	<b>TOTAL PUBLIC WORKS</b>	\$ 1,869,737	\$ 1,501,182	\$ 4,688,154	\$ 4,854,108	\$ 2,421,868	\$ 1,669,118	\$ 17,004,167
<b>GRAND TOTAL - ALL GENERAL FUND PROJECTS</b>		<b>\$ 4,080,607</b>	<b>\$ 3,941,387</b>	<b>\$ 7,607,999</b>	<b>\$ 6,188,045</b>	<b>\$ 5,210,368</b>	<b>\$ 3,596,118</b>	<b>\$ 30,624,524</b>

## General Fund 2015 Capital Improvement Program Detail

Dept.	Project Name	cur rev	bonds	federal	state	other	TOTAL 2014/2015
Airport	Easement Acquisition	30,000	-	540,000	30,000	-	600,000
Airport	Master Plan Update	8,750	-	157,500	8,750	-	175,000
Airport	Pavement Maintenance	25,000	-	-	-	-	25,000
Airport	Pavement Marking	12,000	-	-	-	-	12,000
Assessing	Tax Parcel Boundary Correction	-	300,000	-	-	-	300,000
Facilities	City Hall Renovations	25,000	-	-	-	-	25,000
Finance	Ecommunity/FIAS Upgrade	-	186,000	-	-	-	186,000
Fire	Capital Reserve Ambulance Replacement	70,000	-	-	-	-	70,000
Fire	Capital Reserve Apparatus Replacement	215,000	-	-	-	-	215,000
Fire	Mobile Radio Replacement	23,500	-	-	-	-	23,500
IMS	Network Equipment Replacement	89,000	-	-	-	-	89,000
IMS	Server Replacement	3,000	-	-	-	-	3,000
Parks & Rec.	Skate Park	-	-	-	-	162,500	162,500
Parks & Rec.	Tennis Court Improvements	24,870	-	-	-	-	24,870
Planning	Digital Base Map	-	180,000	-	-	-	180,000
Planning	Jonathan Daniels Trail Study	20,000	-	-	-	-	20,000
Planning	Land Use Code	100,000	-	-	-	-	100,000
Public Works	Airport Road Culvert Repair	-	130,000	-	-	-	130,000
Public Works	Bridge Program	-	130,000	-	-	-	130,000
Public Works	Curb Installation	-	47,146	-	-	-	47,146
Public Works	560 Main Street Assessment	65,000	-	-	-	-	65,000
Public Works	Road Rehabilitation	-	1,167,118	-	-	-	1,167,118
Public Works	Sidewalks - Replacement/Repair	-	47,146	-	-	-	47,146
Public Works	Stormwater Drainage Maintenance	101,681	-	-	-	-	101,681
Public Works	Stormwater Drainage Spot Repair Program	-	47,146	-	-	-	47,146
Public Works	Stormwater System Management	50,000	-	-	-	-	50,000
Public Works	Stream Inventory	25,000	-	-	-	-	25,000
Public Works	3 Mile Dam	-	-	-	-	59,500	59,500
<b>GRAND TOTAL - ALL GENERAL FUND PROJECTS</b>		<b>\$ 887,801</b>	<b>\$ 2,234,556</b>	<b>\$ 697,500</b>	<b>\$ 38,750</b>	<b>\$ 222,000</b>	<b>\$ 4,080,607</b>

## General Fund 2016 Capital Improvement Program Detail

Dept.	Project Name	cur rev	bonds	federal	state	other	TOTAL 2015/2016
Airport	Pavement Maintenance	46,000	-	-	-	-	46,000
Airport	Runway 14/32 Reconstruction	10,000	-	180,000	10,000	-	200,000
Airport	Runway 20 Obstruction Removal	7,000	-	126,000	7,000	-	140,000
Airport	Runway 20 PAPI Replacement	2,500	-	45,000	2,500	-	50,000
Facilities	City Hall Renovations	-	200,000	-	-	-	200,000
Facilities	Library Windows (Floors 1 & 2)	-	100,000	-	-	-	100,000
Facilities	Mansard Renovation - Library Annex	-	219,000	-	-	-	219,000
Fire	Ambulance Replacement	-	-	-	-	215,000	215,000
Fire	Apparatus Replacement	-	-	-	-	450,000	450,000
Fire	Capital Reserve Ambulance Replacement	70,000	-	-	-	-	70,000
Fire	Capital Reserve Apparatus Replacement	245,000	-	-	-	-	245,000
Fire	Defibrillator Replacement	-	66,205	-	-	-	66,205
Fire	Mobile Radio Replacement	23,500	-	-	-	-	23,500
Fire	West Keene Fire Station Study	20,000	-	-	-	-	20,000
IMS	Network Equipment Replacement	21,000	-	-	-	-	21,000
IMS	Server Replacement	44,500	-	-	-	-	44,500
Parks & Rec.	Wheelock Park Improvements	-	-	-	-	330,000	330,000
Public Works	Curb Installation	-	58,177	-	-	-	58,177
Public Works	Road Rehabilitation	-	1,171,920	-	-	-	1,171,920
Public Works	Sidewalks - Replacement/Repair	-	58,177	-	-	-	58,177
Public Works	Stormwater Drainage Maintenance	104,731	-	-	-	-	104,731
Public Works	Stormwater Drainage Spot Repair Program	-	58,177	-	-	-	58,177
Public Works	Stormwater System Management	50,000	-	-	-	-	50,000
<b>GRAND TOTAL - ALL GENERAL FUND PROJECTS</b>		<b>\$ 644,231</b>	<b>\$ 1,931,656</b>	<b>\$ 351,000</b>	<b>\$ 19,500</b>	<b>\$ 995,000</b>	<b>\$ 3,941,387</b>

### General Fund 2017 Capital Improvement Program Detail

<u>Dept.</u>	<u>Project Name</u>	<u>cur rev</u>	<u>bonds</u>	<u>federal</u>	<u>state</u>	<u>other</u>	<u>TOTAL</u> <u>2016/2017</u>
Airport	Pavement Maintenance	48,000	-	-	-	-	48,000
Airport	Runway 14/32 Reconstruction	90,000	-	1,620,000	90,000	-	1,800,000
Facilities	Facilities Master Plan	20,000	-	-	-	-	20,000
Facilities	Library Carpet	35,000	-	-	-	-	35,000
Fire	Capital Reserve Ambulance Replacement	72,500	-	-	-	-	72,500
Fire	Capital Reserve Apparatus Replacement	290,000	-	-	-	-	290,000
Fire	Defibrillator Replacement	-	66,205	-	-	-	66,205
Fire	Fire Alarm System Infrastructure	50,000	-	-	-	-	50,000
Fire	Mobile Radio Replacement	23,000	-	-	-	-	23,000
Fire	Portable Radio Replacement	30,000	-	-	-	-	30,000
IMS	Oracle Database Software	86,000	-	-	-	-	86,000
IMS	Server Replacement	53,000	-	-	-	-	53,000
Parks & Rec.	Cemetery Roads Repaving	36,140	-	-	-	-	36,140
Parks & Rec.	Wheelock Park Improvements	-	-	-	-	310,000	310,000
Public Works	Curb Installation	-	59,922	-	-	-	59,922
Public Works	Goose Pond Dam Improvements	-	106,389	-	-	-	106,389
Public Works	Road Rehabilitation	-	1,229,047	-	-	-	1,229,047
Public Works	Sidewalks - New	-	231,449	-	-	-	231,449
Public Works	Sidewalks - Replacement/Repair	-	59,922	-	-	-	59,922
Public Works	State By-Pass Projects	-	566,000	-	2,264,000	-	2,830,000
Public Works	Stormwater Drainage Maintenance	61,503	-	-	-	-	61,503
Public Works	Stormwater Drainage Spot Repair Program	-	59,922	-	-	-	59,922
Public Works	Stormwater System Management	50,000	-	-	-	-	50,000
<b>GRAND TOTAL - ALL GENERAL FUND PROJECTS</b>		<b>\$ 945,143</b>	<b>\$ 2,378,856</b>	<b>\$ 1,620,000</b>	<b>\$ 2,354,000</b>	<b>\$ 310,000</b>	<b>\$ 7,607,999</b>

### General Fund 2018 Capital Improvement Program Detail

<u>Dept.</u>	<u>Project Name</u>	<u>cur rev</u>	<u>bonds</u>	<u>federal</u>	<u>state</u>	<u>other</u>	<u>TOTAL</u> <u>2017/2018</u>
Airport	Pavement Maintenance	50,000	-	-	-	-	50,000
Facilities	Facilities Master Plan	20,000	-	-	-	-	20,000
Fire	Apparatus Replacement	-	-	-	-	710,000	710,000
Fire	Capital Reserve Ambulance Replacement	75,000	-	-	-	-	75,000
Fire	Capital Reserve Apparatus Replacement	295,000	-	-	-	-	295,000
Fire	Portable Radio Replacement	42,000	-	-	-	-	42,000
IMS	Network Equipment Replacement	55,800	-	-	-	-	55,800
IMS	Server Replacement	3,000	-	-	-	-	3,000
IMS	Storage Area Network	61,000	-	-	-	-	61,000
Parks & Rec.	Cemetery Roads Repaving	22,137	-	-	-	-	22,137
Public Works	Bridge Program	-	-	-	736,000	184,000	920,000
Public Works	Curb Installation	-	61,720	-	-	-	61,720
Public Works	Road Rehabilitation	-	1,169,601	-	-	-	1,169,601
Public Works	Sidewalks - Replacement/Repair	-	61,720	-	-	-	61,720
Public Works	State By-Pass Projects	-	493,200	-	1,972,800	-	2,466,000
Public Works	Stormwater Drainage Maintenance	63,347	-	-	-	-	63,347
Public Works	Stormwater Drainage Spot Repair Program	-	61,720	-	-	-	61,720
Public Works	Stormwater System Management	50,000	-	-	-	-	50,000
<b>GRAND TOTAL - ALL GENERAL FUND PROJECTS</b>		<b>\$ 737,284</b>	<b>\$ 1,847,961</b>	<b>\$ -</b>	<b>\$ 2,708,800</b>	<b>\$ 894,000</b>	<b>\$ 6,188,045</b>

### General Fund 2019 Capital Improvement Program Detail

Dept.	Project Name	cur rev	bonds	federal	state	other	<b>TOTAL 2018/2019</b>
Airport	Fuel Farm	40,000	-	-	-	-	40,000
Airport	Pavement Maintenance	52,000	-	-	-	-	52,000
Airport	Pavement Marking	22,000	-	-	-	-	22,000
Airport	Taxiway A Relocation	100,000	-	1,800,000	100,000	-	2,000,000
Facilities	Facilities Master Plan	20,000	-	-	-	-	20,000
Fire	Ambulance Replacement	-	-	-	-	230,000	230,000
Fire	Capital Reserve Ambulance Replacement	77,500	-	-	-	-	77,500
Fire	Capital Reserve Apparatus Replacement	295,000	-	-	-	-	295,000
Fire	Portable Radio Replacement	42,000	-	-	-	-	42,000
IMS	Server Replacement	10,000	-	-	-	-	10,000
Public Works	Curb Installation	-	63,571	-	-	-	63,571
Public Works	Goose Pond Dam Improvements	-	879,400	-	-	-	879,400
Public Works	Road Rehabilitation	-	1,236,507	-	-	-	1,236,507
Public Works	Sidewalks - Replacement/Repair	-	63,571	-	-	-	63,571
Public Works	Stormwater Drainage Maintenance	65,248	-	-	-	-	65,248
Public Works	Stormwater Drainage Spot Repair Program	-	63,571	-	-	-	63,571
Public Works	Stormwater System Management	50,000	-	-	-	-	50,000
<b>GRAND TOTAL - ALL GENERAL FUND PROJECTS</b>		<b>\$ 773,748</b>	<b>\$ 2,306,620</b>	<b>\$ 1,800,000</b>	<b>\$ 100,000</b>	<b>\$ 230,000</b>	<b>\$ 5,210,368</b>

### General Fund 2020 Capital Improvement Program Detail

Dept.	Project Name	cur rev	bonds	federal	state	other	<b>TOTAL 2019/2020</b>
Airport	Fuel Farm	-	500,000	-	-	-	500,000
Airport	Pavement Maintenance	54,000	-	-	-	-	54,000
Facilities	Facilities Master Plan	20,000	-	-	-	-	20,000
Fire	Capital Reserve Ambulance Replacement	80,000	-	-	-	-	80,000
Fire	Capital Reserve Apparatus Replacement	200,000	-	-	-	-	200,000
Fire	Ladder 1 Replacement	-	1,000,000	-	-	-	1,000,000
Fire	Portable Radio Replacement	42,000	-	-	-	-	42,000
IMS	Server Replacement	31,000	-	-	-	-	31,000
Public Works	Curb Installation	-	65,478	-	-	-	65,478
Public Works	Road Rehabilitation	-	1,422,684	-	-	-	1,422,684
Public Works	Sidewalks - Replacement/Repair	-	65,478	-	-	-	65,478
Public Works	Drainage Repair Program	-	65,478	-	-	-	65,478
Public Works	Stormwater System Management	50,000	-	-	-	-	50,000
<b>GRAND TOTAL - ALL GENERAL FUND PROJECTS</b>		<b>\$ 477,000</b>	<b>\$ 3,119,118</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 3,596,118</b>

## General Fund 2015 - 2020 Capital Improvement Program Debt Summary

	FY15	FY16	FY17	FY18	FY19	FY20
Existing Debt*	\$31,718,815	\$29,984,557	\$27,563,005	\$25,990,697	\$23,908,272	\$22,325,127
New Issues Proposed	2,234,556	1,931,656	2,378,856	1,847,961	2,306,620	3,119,118
Principal Paid	(3,968,814)	(4,353,208)	(3,951,164)	(3,930,386)	(3,889,765)	(3,859,917)
<b>Total Existing Debt &amp; Issues Proposed</b>	<b>\$29,984,557</b>	<b>\$27,563,005</b>	<b>\$25,990,697</b>	<b>\$23,908,272</b>	<b>\$22,325,127</b>	<b>\$21,584,329</b>

	Issue	Term	FY15	FY16	FY17	FY18	FY19	FY20
<b>Existing &amp; Authorized Debt Service (Principal &amp; Interest)</b>			\$5,007,089	\$4,976,807	\$4,249,417	\$3,857,492	\$3,523,335	\$3,207,079

### Proposed Debt Service CIP FY15

Assessing: Tax Parcel Map Update	300,000	5	5,250	69,450	67,350	65,250	63,150	61,050
Finance: Ecommunity/FIAS upgrade	186,000	5	3,255	43,059	41,757	40,455	39,153	37,851
Planning: Base Map Update	180,000	5	3,150	41,670	40,410	39,150	37,890	36,630
Public Works: Airport Road Culvert	130,000	10	2,275	17,095	16,868	16,413	15,958	15,503
Public Works: Consolidated Infrastructure	1,308,556	10	22,900	172,075	169,785	165,205	160,625	156,045
Public Works: Maple Ave Bridge**	130,000	FY20 issue						

### Proposed Debt Service CIP FY16

Facilities: City Hall Renovations	200,000	10		3,500	26,650	25,950	25,250	24,550
Facilities: Annex Mansards	219,000	20		3,833	18,423	18,040	17,657	17,274
Facilities: Library Windows	100,000	20		1,750	8,413	8,238	8,063	7,888
Fire: Defib Units	66,205	5		1,159	15,326	14,863	14,400	13,936
Public Works: Consolidated Infrastructure	1,346,451	10		23,563	179,415	174,702	169,989	165,277

### Proposed Debt Service CIP FY17

Fire: Defib Units	\$66,205	5			1,159	15,326	14,863	14,400
Public Works: Consolidated Infrastructure	\$1,640,262	10			28,705	218,565	212,824	207,083
Public Works: Goose Pond Design	\$106,389	5			1,862	24,629	23,884	23,140
Public Works: State By-pass Project	\$566,000	10			9,905	75,420	73,439	71,458

### Proposed Debt Service CIP FY18

Public Works: Consolidated Infrastructure	\$1,354,761	10				23,708	180,522	175,780
Public Works: State By-pass Project	\$493,200	10				8,631	65,719	63,993

### Proposed Debt Service CIP FY19

Public Works: Consolidated Infrastructure	\$1,427,220	10					24,976	190,177
Public Works: Goose Pond Design	\$879,400	20					15,390	73,980

### Proposed Debt Service CIP FY20

Airport: Fuel Farm	\$500,000	20						8,750
Fire: Ladder 1 Replacement	\$1,000,000	7						17,500
Public Works: Consolidated Infrastructure	\$1,619,118	10						28,335
Public Works: Maple Ave Bridge (FY15)	\$130,000	10						2,275

<b>Total CIP15-20 Debt Service Proposed</b>			36,830	377,153	626,027	934,545	1,163,751	1,412,872
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<b>Total Projected Debt Service: General Fund</b>			\$5,043,919	\$5,353,960	\$4,875,443	\$4,792,036	\$4,687,086	\$4,619,951
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\*Existing Debt includes FY14 issues authorized and proposed Ice Rink bond

\*\*Maple Ave Bridge bond authorized FY15 to advance consideration of application for NHDOT Municipal Bridge Aid Program. Issue to be timed with NHDOT funding schedule.



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Easement Acquisition**  
 Department: **Airport**  
 Physical Location: **Dillant-Hopkins Airport**  
 Federal Mandate: **Title 49, US Code, Subtitle VII**  
 State Regulation or Law: **Title XXXI, RSA Chapter 424:2**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **To secure the property rights necessary to remove hazards to the approach to Runway 20.**

### Easement Acquisition Area



### PROJECT DESCRIPTION/JUSTIFICATION

The Federal Aviation Administration has established safety criteria for the operation of the Dillant-Hopkins Airport focusing on the safety of aircraft and residents near the airport. Engineering evaluations have determined that a number of obstructions (trees) penetrate into the approach surfaces of Runway 20. A number of these trees are on private property in the Edgewood neighborhood. As part of a separate project, an engineering analysis and an environmental assessment has been completed to examine all practical alternatives to mitigate these obstructions. To effectively address the obstructions the City will need to acquire easements on approximately 25 parcels to allow the removal of problem trees. The process will include appraisals, review appraisals, negotiations with property owners, and administrative efforts. Airport Improvement Program guidelines require the airport sponsor to up-front the preliminary costs related to property acquisition including appraisal, negotiation, and administrative expenses. Once purchase and sale agreements are signed, a grant application for all project costs will be submitted to the Federal Aviation Administration and the New Hampshire Department of Transportation Bureau of Aeronautics. These grants will provide funding for 90% (Federal) and 5% (State) share of the project cost. The final 5% will be the responsibility of the City.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Professional Services		200,000						200,000
Construction/Implementation		400,000						400,000
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$600,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$600,000</b>
<b>FUNDING</b>								
Current Revenue		30,000						\$30,000
Capital Reserve								0
Debt Funded								0
Federal or State Grants		570,000						570,000
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$600,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$600,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Fuel Farm Tank Replacement**  
 Department: **Airport**  
 Physical Location: **Keene Dillant-Hopkins Airport**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Yes - To maintain compliance with underground fuel storage tank regulations and to provide services required by the flying public.**



### PROJECT DESCRIPTION/JUSTIFICATION

The current aviation fuel facility consists of two 10,000 gallon underground storage tanks with associated piping, pumps, and dispensers. One tank is for Jet-A aviation fuel and the other for 100 Low Lead aviation fuel. The City acquired the fuel farm from the Town of Swanzey in 1999 when it took ownership from a former tenant because of failure to pay property taxes. Since then the City has improved the system to be in compliance with all Federal and State regulations. No upgrade relative to the in-ground tanks is possible. Installed in 1988, the tanks are double-walled, have interstitial leak monitoring, and have a corrosion protection system. There is no history of these tanks leaking. Unfortunately, with the tanks being more than 25 years old, insurance companies are more reluctant to provide environmental contamination insurance. Expecting this trend to continue as the tanks continue to age, it is appropriate to plan for replacement. Due to increased costs that have resulted from more stringent underground storage tank regulations, it also appears to be more prudent to replace the entire system because a retrofit would most likely be more expensive. The project would included the installation of two new 10,000 gallon tanks and related pumping and dispensing equipment. The new system would be an above ground system providing better maintenance access and reducing the potential for large-scale contamination.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design						40,000		40,000
Construction/Implementation							500,000	500,000
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$40,000</b>	<b>\$500,000</b>	<b>\$540,000</b>
<b>FUNDING</b>								
Current Revenue						40,000		\$40,000
Capital Reserve								0
Debt Funded							500,000	500,000
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$40,000</b>	<b>\$500,000</b>	<b>\$540,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** New Project

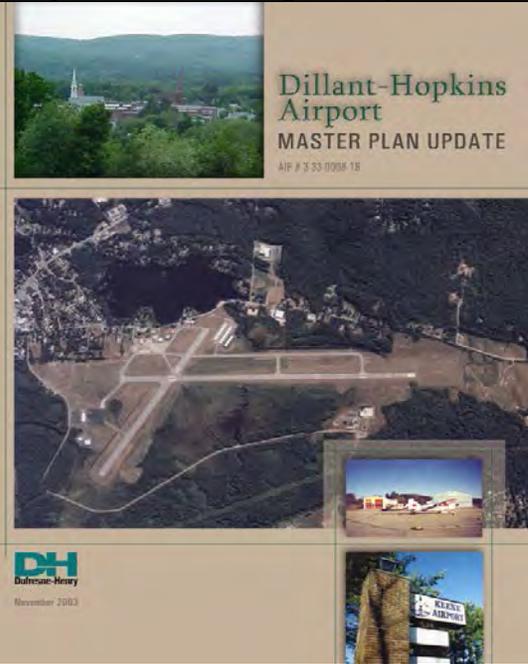


# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Airport Master Plan Update**  
 Department: **Airport**  
 Physical Location: **Dillant-Hopkins Airport**  
 Federal Mandate: **Title 49, US Code, Subtitle VII**  
 State Regulation or Law: **FAA AC 150/5380-6B**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Future Land Use & Public Policy**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Establish Priorities**  
 Departmental Objective: **To maintain a broad-based comprehensive plan for future development designed to meet the needs of the community and airport users.**



### PROJECT DESCRIPTION/JUSTIFICATION

Over time the conditions and circumstances change with regard to airport utilization, capacity, and demand. Other factors such as environmental conditions and existing infrastructure may influence the ability of an airport to adequately serve the needs of its users. To be better prepared to meet these changing circumstances the Federal Aviation Administration Regulations require all airports, supported with federal grant funding, to regularly update their master plans. Since the Keene Dillant-Hopkins Airport receives grants from the federal government an update of its 2003 master plan, typically occurring on a ten-year cycle, is scheduled. This project will update that plan ensuring compliance with all the current standards.

The Master Plan Update includes an analysis of the aerial approaches to the airport as well as a review and condition assessment of all airport facilities and infrastructure including pavement. Current activity levels are examined along with forecasted demand. Capital projects are developed to assure that existing and planned airport infrastructure is capable of accommodating projected demand. Cost estimates for infrastructure improvements are also calculated. All improvements are then included on an Airport Layout Plan which serves to guide all future development projects. Completion of this master plan update is subject to receipt of grants from the Federal Aviation Administration and the New Hampshire Department of Transportation Bureau of Aeronautics equal to 90% and 5% of project costs respectively. The final 5% of the project will be the responsibility of the City.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design		175,000						175,000
Construction/Implementation								0
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$175,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$175,000</b>
<b>FUNDING</b>								
Current Revenue		8,750						\$8,750
Capital Reserve								0
Debt Funded								0
Federal or State Grants		166,250						166,250
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$175,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$175,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Ongoing CIP

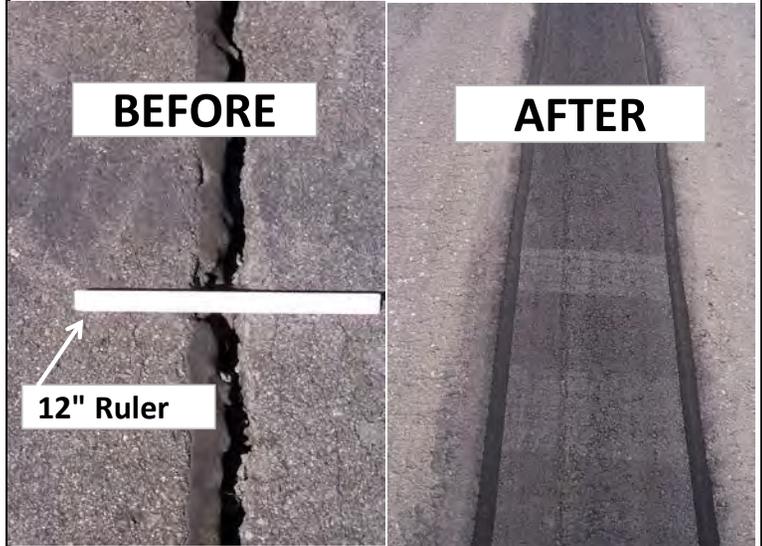


# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

**Project Name:** Pavement Maintenance  
**Department:** Airport  
**Physical Location:** Keene Dillant-Hopkins Airport  
**Federal Mandate:** Title 49, US Code, Subtitle VII  
**State Regulation or Law:** FAA AC 150/5380-6B  
**Master Plan (CMP) Focus Area:** Quality Built Environment  
**CMP Vision/Strategy:** Infrastructure  
**Council Initiative:** N/A  
**V.O.I.C.E.:** Continually Assess Facilities and Infrastructure  
**Departmental Objective:** To maintain the integrity and safety of the facilities for the good of the airport users.



### PROJECT DESCRIPTION/JUSTIFICATION

Nearly all pavement at the airport has been constructed with the assistance of various federal grant programs. These grants have historically provided up to 95% of the cost of construction. As a condition of accepting these grants the City has agreed to maintain the pavement to Federal standards for safety reasons. Through regular pavement maintenance the City can assure maximum pavement life. This maintenance includes the routine repair of defective, deteriorated, or otherwise failing pavement on aircraft movement areas. Defects include cracks in excess of 1.5" in width. Repairs involve machine saw cutting areas to provide clean edges. Loose pavement is removed, the base is compacted and new asphalt is applied. The repair area is then sealed. Cracks less than 1.5" will be cleaned and sealed as necessary. Because this is a maintenance item, it is typically not eligible for grants from the Federal Aviation Administration or the New Hampshire Department of Transportation Bureau of Aeronautics. Pavement maintenance funding for FY14 and a portion of FY15 are being repurposed to cover a portion of the City's 5% share of the Runway 2/20 reconstruction project.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation		25,000	46,000	48,000	50,000	52,000	54,000	275,000
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$25,000</b>	<b>\$46,000</b>	<b>\$48,000</b>	<b>\$50,000</b>	<b>\$52,000</b>	<b>\$54,000</b>	<b>\$275,000</b>
<b>FUNDING</b>								
Current Revenue		25,000	46,000	48,000	50,000	52,000	54,000	\$275,000
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
i;								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$25,000</b>	<b>\$46,000</b>	<b>\$48,000</b>	<b>\$50,000</b>	<b>\$52,000</b>	<b>\$54,000</b>	<b>\$275,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Ongoing CIP

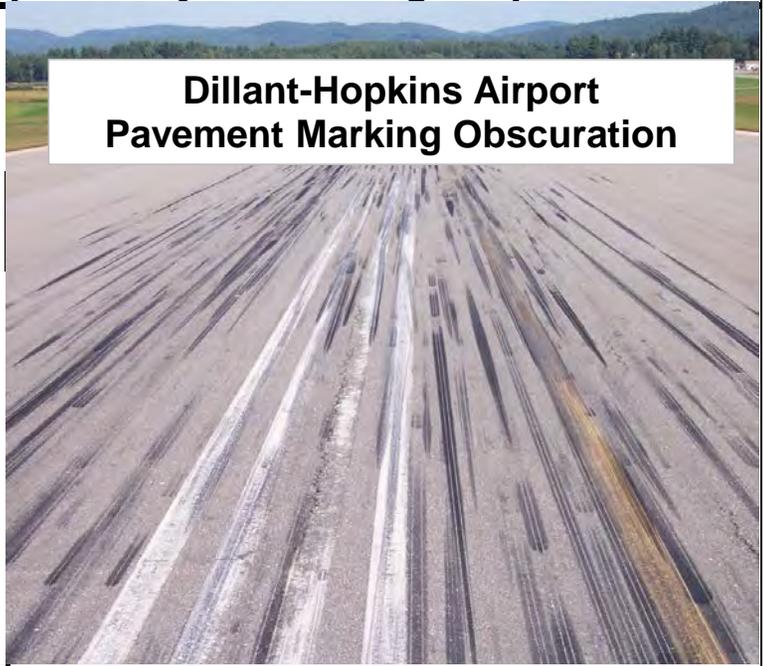


# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Pavement Marking**  
 Department: **Airport**  
 Physical Location: **Dillant-Hopkins Airport**  
 Federal Mandate: **Title 49, US Code, Subtitle VII**  
 State Regulation or Law: **FAA AC 150/5340-1J**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **To maintain the integrity and safety of the facilities for the good of the airport users.**



### PROJECT DESCRIPTION/JUSTIFICATION

Airports are used in all weather conditions, at all times of the day, and at all times of the year. Pavement markings communicate important information to a pilot using the airport. Over time, these markings become obliterated due to weather fading, failing paint, and rubber obscuration from landing aircraft tires. Routine repainting of these markings is essential for safety (every four years).

This project includes the remarking of airfield paved surfaces. This includes touch down points, runway and taxiway centerlines, aircraft hold position lines, aircraft parking areas, runway threshold bars, and other critical pavement markings. In total, there is approximately 75,000 square feet of pavement markings. In FY 15, the amount requested has been reduced due to the planned reconstruction of Runway 2/20 in Spring 2014, which will be marked as part of that project. The remaining amount will be used to remark the remaining Airport pavement.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation		12,000				22,000		34,000
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$12,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$22,000</b>	<b>\$0</b>	<b>\$34,000</b>
<b>FUNDING</b>								
Current Revenue		12,000				22,000		\$34,000
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$12,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$22,000</b>	<b>\$0</b>	<b>\$34,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Runway 14/32 Reconstruction**  
 Department: **Airport**  
 Physical Location: **Dillant-Hopkins Airport**  
 Federal Mandate: **Title 49, US Code, Subtitle VII**  
 State Regulation or Law: **FAA AC 150/5340-1J**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **To maintain the integrity and safety of the facilities for the good of the airport users.**



### PROJECT DESCRIPTION/JUSTIFICATION

Portions of Runway 14/32 are over 40 years old. As with any paved surface over time materials breaks down and need to be replaced. Due to the project type and location, an environmental assessment may be required prior to the construction. This study determines the various environmental permits which may be required. The current runway is 150 feet wide. The reconstructed runway will most likely be reduced in width, pending the outcome of the Airport Master Plan Update, which will examine the pavement needs relative to current Federal Aviation Administration criteria. Existing runway lights will also be relocated to the new runway edge. Completion of this project is subject to receipt of grants from the Federal Aviation Administration and the New Hampshire Department of Transportation Bureau of Aeronautics equal to 90% and 5% respectively. The final 5% of the project will be the responsibility of the City.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design			200,000					200,000
Construction/Implementation				1,800,000				1,800,000
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$200,000</b>	<b>\$1,800,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,000,000</b>
<b>FUNDING</b>								
Current Revenue			10,000	90,000				\$100,000
Capital Reserve								0
Debt Funded								0
Federal or State Grants			190,000	1,710,000				1,900,000
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$200,000</b>	<b>\$1,800,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,000,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Reduce - will reduce operating costs Ongoing  
**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Runway 20 Obstruction Removal**  
 Department: **Airport**  
 Physical Location: **Dillant-Hopkins Airport**  
 Federal Mandate: **Title 49, US Code, Subtitle VII**  
 State Regulation or Law: **Title XXXI, RSA Chapter 424:2**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **To remove hazards affecting the approach to Runway 20 and improve airport safety.**

### Runway 20 Approach Obstructions



### PROJECT DESCRIPTION/JUSTIFICATION

As sponsor of the Dillant-Hopkins Airport the City is obligated to operate the facility in compliance with all applicable safety regulations. This includes maintaining aerial approaches that are clear of obstructions that constitute hazards to air navigation. Having learned of obstructions to the approach to Runway 20, both on and off City property, the City undertook an effort to examine alternative approaches to address the problem. It also conducted an environmental assessment to assure consideration was paid to all aspects of the solution. These efforts have concluded that removal of the obstructions is the best practical alternative. Under a separate project, the City will acquire aviation easements from private property owners to allow for the removal of these trees. This project is for the engineering, design, administrative services, and actual removal of the problem trees. The clearing effort will incorporate factors associated with the environmental assessment. With regard to on-airport clearing, it would be the City's intent to return the area affected as quickly as possible to a forested state with lower growing trees. A forest management plan would also be developed to prevent any future issues. It is the City's intent to work with individual property owners on how obstructions are removed from their property. Completion of this project is subject to receipt of grants from the Federal Aviation Administration and the New Hampshire Department of Transportation Bureau of Aeronautics equal to 90% and 5% of its costs respectively. The final 5% of the project will be the responsibility of the City.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design			20,000					20,000
Construction/Implementation			120,000					120,000
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$140,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$140,000</b>
<b>FUNDING</b>								
Current Revenue			7,000					\$7,000
Capital Reserve								0
Debt Funded								0
Federal or State Grants			133,000					133,000
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$140,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$140,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Runway 20 PAPI Replacement**  
 Department: **Airport**  
 Physical Location: **Dillant-Hopkins Airport**  
 Federal Mandate: **Title 49, US Code, Subtitle VII**  
 State Regulation or Law: **Title XXXI, RSA Chapter 424:2**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **To provide a precision landing aid to those using the Runway 20 approach, improving airport safety.**

### Precision Approach Path Indicator



### PROJECT DESCRIPTION/JUSTIFICATION

This project includes the replacement of the Precision Approach Path Indicator (PAPI) system at the end of Runway 20 (similar to the Runway 2 installation pictured above). This equipment is used by pilots to help them stay on the correct approach angle as they land on Runway 20. The existing system is more than 24 years old and in need of replacement. Completion of this project is subject to receipt of grants from the Federal Aviation Administration and the New Hampshire Department of Transportation Bureau of Aeronautics equal to 90% and 5% respectively. The final 5% of the project will be the responsibility of the City.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design			15,000					15,000
Construction/Implementation			35,000					35,000
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$50,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$50,000</b>
<b>FUNDING</b>								
Current Revenue			2,500					\$2,500
Capital Reserve								0
Debt Funded								0
Federal or State Grants			47,500					47,500
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$50,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$50,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Ongoing CIP

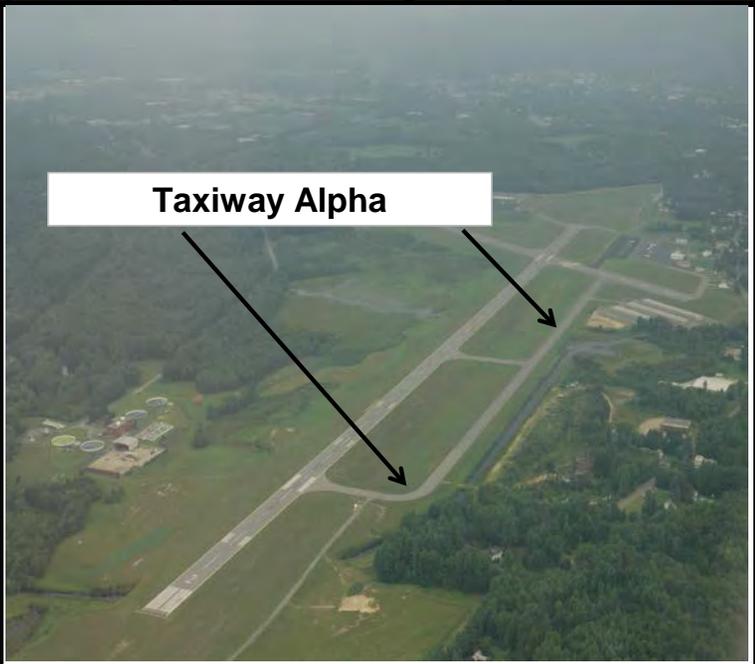


# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

**Project Name:** Taxiway A Relocation  
**Department:** Airport  
**Physical Location:** Dillant-Hopkins Airport  
**Federal Mandate:** Title 49, US Code, Subtitle VII  
**State Regulation or Law:** FAA AC 150/5380-6B  
**Master Plan (CMP) Focus Area:** Quality Built Environment  
**CMP Vision/Strategy:** Infrastructure  
**Council Initiative:** N/A  
**V.O.I.C.E.:** Continually Assess Facilities and Infrastructure  
**Departmental Objective:** To replace deteriorating pavement, improve airport safety and to comply with current runway/taxiway separation requirements.



### PROJECT DESCRIPTION/JUSTIFICATION

This project includes the engineering, design, and construction of a new Taxiway A. It will be approximately 3,500 feet long and 60 feet wide. Taxiway A serves the Airport's primary Runway 2/20. The current Taxiway A is over 24 years old, having been constructed in 1989. It has received routine maintenance and repair over the years but has started to deteriorate at an accelerated rate and will need to be replaced. The location of the current Taxiway A does not meet taxiway/runway separation criteria so relocation to meet Federal Aviation Regulation standards is anticipated. Its new location will be approximately 110 feet closer to Runway 2. Completion of this project is subject to receipt of grants from the Federal Aviation Administration and the New Hampshire Department of Transportation Bureau of Aeronautics equal to 90% and 5% respectively. The final 5% of the project will be the responsibility of the City.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design						200,000		200,000
Construction/Implementation						1,800,000		1,800,000
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,000,000</b>	<b>\$0</b>	<b>\$2,000,000</b>
<b>FUNDING</b>								
Current Revenue						100,000		\$100,000
Capital Reserve								0
Debt Funded								0
Federal or State Grants						1,900,000		1,900,000
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,000,000</b>	<b>\$0</b>	<b>\$2,000,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Negligible<\$5,001 Ongoing

**PROJECT STATUS:** Ongoing CIP

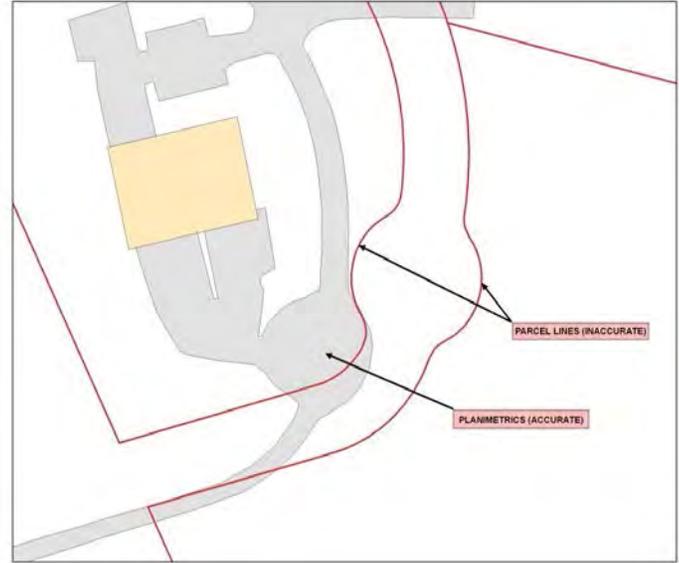


# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Tax Parcel Map Update**  
 Department: **Assessing**  
 Physical Location: **3 Washington Street**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **RSA 31:95-a**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Implement and utilize technology for effective, efficient, and transparent assessing practices**



### PROJECT DESCRIPTION/JUSTIFICATION

This is a multi-faceted project with three main objectives: 1) correct and improve the accuracy of the City's tax parcel maps; 2) provide a modern way for the City, real estate professionals, prospective property owners, and the public to utilize the parcel maps integrated with geographic and public information; and 3) reconcile the two current database sets of paper and digital maps.

To achieve the first objective, the entire City will be remapped incorporating the use of coordinate geometry (COGO), deed and survey research, and the registration of points to an underlying planimetric base map. The end result will provide a complete and accurate set of digital parcel maps that will be relied upon for assessing purposes, used by other City departments, and will be available to the public. Secondly, this project will integrate the parcel data with a fully functioning online GIS that can be continuously built upon and developed. In addition to being able to utilize multiple data layers, the online GIS will connect the City's property assessing information to the tax parcel maps, resulting in the ability to provide a great amount of public information to all users. Finally, this project will consolidate and modernize the current map updating process improving the workflow between departments.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design		300,000						\$300,000
Construction/Implementation								0
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$300,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$300,000</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve								0
Debt Funded		300,000						300,000
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$300,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$300,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Negligible<\$5,001 Ongoing

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **City Hall Renovations**  
 Department: **Facilities**  
 Physical Location: **City Hall**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **Strong Citizenship and Proactive Leadership**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Improve meeting space for public bodies, department operations and customers providing a safe, functional environment for government process, necessary IT operations, and citizenry needs.**



### PROJECT DESCRIPTION/JUSTIFICATION

This project includes renovations to the City's primary data center and the former District Court spaces in City Hall. Initially the data center project was included in the FY14 CIP document with the title "Data Center Relocation." It has now been expanded to include other areas in City Hall; particularly the space availed by the exit of the District Court. The project will be conducted in two phases. The first year will include professional services for the study of the current needs and, ultimately, a design recommendation that suits all requirements. The requirements of the data center will focus on the reliability of the computing environment throughout all departments to include security, HVAC, energy consumption, wiring, and fire suppression resources.

In the case of the vacated District Court space and other areas of City Hall, the primary focus will be the relocation of public meetings from the 3rd and 4th floors of City Hall to the vacated space with the goal to increase efficiency and the effectiveness of meeting spaces, provide greater public access, and reduce staff time associated with customized meeting set-ups. In addition, there will be an evaluation of the first and second lobby space to improve the customer experience and rehabilitation of the City Hall front entry area. Concept plans, developed in FY 15, will refine design and implementation plans. Low cost, easy to implement recommendations could advance quickly. Larger projects resulting from this effort include a more permanent set up for the Council Chamber, improvements to the public meeting areas and the IMS data center, along with the lobby and entry way. Funding requirements for these larger projects are shown as scheduled for FY 16.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design		25,000						25,000
Construction/Implementation			200,000					200,000
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$25,000</b>	<b>\$200,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$225,000</b>
<b>FUNDING</b>								
Current Revenue		25,000						\$25,000
Capital Reserve								0
Debt Funded			200,000					200,000
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$25,000</b>	<b>\$200,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$225,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Reduce - will reduce operating costs Ongoing      **PROJECT STATUS:** New Project



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Facilities Master Plan**  
 Department: **Facilities**  
 Physical Location: **312 Washington Street**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Community Sustainability**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Create overall plan for City sites and facilities**



### PROJECT DESCRIPTION/JUSTIFICATION

The City of Keene has a significant investment, in excess of \$86 million, in building and facilities and currently owns 646,369 square feet of buildings. The facilities function, as part of the Parks, Recreation and Facilities department, budgets for nine of these locations. However, many departments have responsibility for their own custodial and maintenance services. This has resulted in a fragmented approach to building management with no “master plan” for repair, maintenance, or renovation. Additionally, this creates a reactive approach to facilities management, limiting the ability to accurately budget for or negotiate consolidated contracts for facilities related expenses. Prior to the launch of the Facilities Master Plan Steering Committee in May 2012, there were two previous Committees established to analyze and recommend an inclusive plan to address these issues. These three committees have each independently recommended that the City develop a Facilities Master Plan, in support of the City’s Comprehensive Master Plan, to chart direction for this function and effectively manage the City’s sizeable investment in real estate.

The Facilities Master Plan Steering Committee has been charged with the development and implementation of a Facilities Master Plan which will utilize uniform standards for proactive management of City’s facilities in alignment with the current Comprehensive Master Plan. The former Building and Grounds Steering Committee evaluated facility operations and made two recommendations: 1) that a management committee be established to oversee and direct the management of facilities and grounds, and 2) that the City Manager appoint a steering committee to conduct a more detailed analysis and to oversee the transition in the management process. With these steps identified the steering committee will conduct an assessment of currently occupied facilities assets. The objective is to establish long term goals for improvements, develop systematic repair and maintenance specifications for these assets, centralize contracts and vendors of record for routine maintenance requirements, and develop a standard operating procedure to provide a baseline and ensure consistency in other departmental plans and operations.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation				20,000	20,000	20,000	20,000	80,000
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$20,000</b>	<b>\$20,000</b>	<b>\$20,000</b>	<b>\$20,000</b>	<b>\$80,000</b>
<b>FUNDING</b>								
Current Revenue				20,000	20,000	20,000	20,000	\$80,000
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$20,000</b>	<b>\$20,000</b>	<b>\$20,000</b>	<b>\$20,000</b>	<b>\$80,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Library Windows**  
 Department: **Facilities**  
 Physical Location: **60 Winter Street**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **N/A**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Proactive renovations/ESCO**



### PROJECT DESCRIPTION/JUSTIFICATION

There have been discussions in the past and recently about the condition and energy efficiency of the windows in the Library Mansion as well as Heberton Hall. When the Library addition was completed in 1999, it was recognized at that time that the windows should be upgraded to enhance energy efficiency. This need was identified again in the Investment Grade Audit performed by Honeywell in conjunction with the Energy Services Contract (ESCO). It was not possible through the ESCO project to replace the windows in the Library Mansion or the Heberton Hall. It should be noted that reconstruction of the windows on the Library third floor did occur in 2012 as part of a project rehabilitating the Mansion Mansards. This project would upgrade windows on the first and second floors of the Library Mansion.

With completion of a planning effort and initiation of a capital campaign to develop the Library Campus linking two historic buildings, the Library Mansion and Heberton Hall, it is anticipated this project would move forward as part of a larger renovation project.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation			100,000					100,000
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$100,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$100,000</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve								0
Debt Funded			100,000					100,000
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$100,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$100,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Reduce - will reduce operating costs  
One time

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE 2015 - 2020 Capital Project Funding Request

## GENERAL PROJECT DATA

Project Name: **Replace Library Carpets**  
 Department: **Facilities**  
 Physical Location:  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Community Sustainability**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Maintain Buildings**



## PROJECT DESCRIPTION/JUSTIFICATION

The carpets in the Library are over 20 years old. Many have faded, most are worn and some have bunched and/or frayed to the point where they are beginning to become a tripping hazard. We did contact one supplier and received an estimate of over 25K and will be contacting others. We believe that when we review the specifications for the original carpet and match the style and quality that number will be low.

## FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation				35,000				35,000
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$35,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$35,000</b>
<b>FUNDING</b>								
Current Revenue				35,000				\$35,000
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$35,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$35,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Reduce - will reduce operating costs  
One time

**PROJECT STATUS:** New Project



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Annex Mansard**  
 Department: **Facilities**  
 Physical Location: **76 Winter Street**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Historic Resources & Cultural Heritage**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Proactive renovations/ESCO**



### PROJECT DESCRIPTION/JUSTIFICATION

The Mansards for both the Library and Annex were identified as needing repair. Prior Capital Improvement Programs (CIP) contained this work as a combined project. With repair of the Library Mansion Mansards, combined with rehabilitation of its third floor windows in FY12, work required to the Annex Mansards remains. Cost for this effort has been developed using the responses to an RFP issued in 2010 for the combined project with the portion related to the Annex Mansards estimated at \$219,000.

The CIP for the past cycles have had projects related to the building envelope for the Library and Annex. The Library windows on the first and second floor of the mansion are in fair condition as is the brick mortar. There are some other condition issues such as flooring, minor roofing etc.

The conditions at the Annex, however, are more difficult. The building envelope, except for the flat roofs, is in poor condition. This includes the brick mortar, sills, and headers for the windows and the windows themselves in addition to the mansard. The building will need an additional exit, an elevator, a hearing and air conditioning system to make the Annex more functional. All of these issues will be addressed as part of the campus development proposed for the site.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation			219,000					219,000
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$219,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$219,000</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve								0
Debt Funded			219,000					219,000
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$219,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$219,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Ongoing CIP

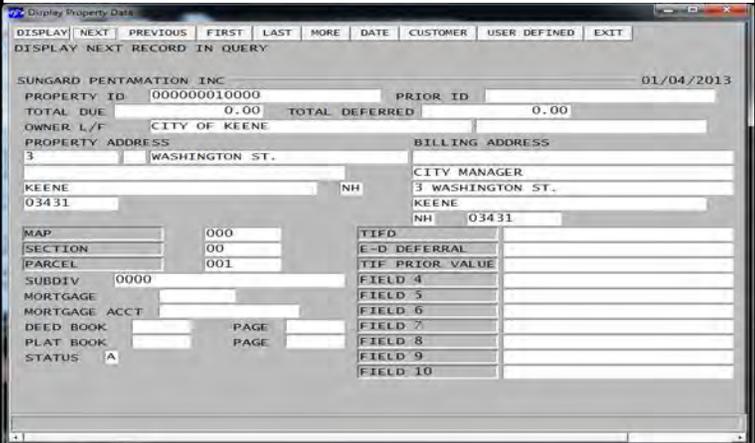


# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **E-community/FIAS Upgrade**  
 Department: **Finance**  
 Physical Location: **3 Washington Street**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Municipal Governance & Financial Stability**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Standard business functions for city organization**



### PROJECT DESCRIPTION/JUSTIFICATION

A primary responsibility of municipal government is the commitment and collection of taxes, in accordance with the requirements of state statute, on behalf of the City, Cheshire County, and Union School District. Software currently utilized to create the necessary tax invoices, record payments, and calculate the various statutory interest rates, charges and fees assessed was acquired by the City in 1999. An upgrade to a modern platform will be required. In addition to supporting the invoicing process, this software provides the statutory notices required for conversion to tax lien and the tax deed process. This software will support the reconciliation necessary for reporting to state agencies and auditors and provide oversight for tax receivables of approximate \$60 million annually.

Upgrade of the tax software will require other components of the City's Financial Information System, upgraded last in 2009, to be migrated to a Windows operating system. While additional software costs will be incurred, the migration eliminates the need to replace the stand alone Unix finance server with its tape backups and creates support efficiencies for IMS.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation		186,000						186,000
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$186,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$186,000</b>
<b>FUNDING</b>								
Current Revenue				0				\$0
Capital Reserve								0
Debt Funded		186,000						186,000
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$186,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$186,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Ongoing CIP

## FIRE & EMERGENCY MEDICAL SERVICE APPARATUS SCHEDULES

### CITY OF KEENE AMBULANCE REPLACEMENT SCHEDULE 2015 - 2020 Capital Improvement Program

Vehicle #	Description	Year	Use	FY 2014/2015	FY 2015/2016	FY 2016/2017	FY 2017/2018	FY 2018/2019	FY 2019/2020	Later Years
19A1	Ambulance	2007	EMS		215,000					
19A3	Ambulance	2009	EMS					230,000		
19A2	Ambulance	2012	EMS							2022
			<b>TOTAL</b>	\$0	\$215,000	\$0	\$0	\$230,000	\$0	

Future CIP Programs: Anticipated Replacement Costs

FY22 Ambulance (19A1) \$245,000

### CITY OF KEENE FIRE APPARATUS REPLACEMENT SCHEDULE 2015 - 2020 Capital Improvement Program

Vehicle #	Description	Year	Use	FY 2014/2015	FY 2015/2016	FY 2016/2017	FY 2017/2018	FY 2018/2019	FY 2019/2020	Later Years
19M1	Engine	1998	Fire		450,000					
19L2	Quint	2000	Fire				710,000			
19B2	Brush Truck	2002	Fire							
19L1	Ladder Truck*	1997	Fire						1,000,000	
19B1	Brush Truck	2003	Fire							2021
19T1	Tanker	2005	Fire							2022
19U1	Utility	2006	Fire							2024
19R1	Rescue	2010	Fire							2025
19M2	Engine	2013	Fire							2028
			<b>TOTAL</b>	\$0	\$450,000	\$0	\$710,000	\$0	\$1,000,000	

Future CIP Programs: Anticipated Replacement Costs

FY21 Replacement of Brush Truck 19B2 \$90,000  
 FY22 Tanker Truck \$710,982  
 FY23 Replacement of Utility Truck \$120,000  
 FY24 Replacement Brush Truck 19B1 \$90,000  
 FY25 Replacement of Rescue 1 \$756,396  
 FY28 Replacement of Engine 2 \$738,386  
 FY29 Fire Alarm Truck \$198,104  
 FY31 Engine M1 \$810,425  
 FY33 Quint 19L2 \$1,000,000

\*Funding programmed through lease/purchase or issuance of a bond.  
 All other apparatus acquisitions to be funded through capital reserve contributions.



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Ambulance Replacement Reserve**  
 Department: **Fire Department**  
 Physical Location: **31 Vernon Street**  
 Federal Mandate: **NO**

State Regulation or Law: **Shall meet State Requirement for Licensing**  
 Master Plan (CMP) Focus Area: **Healthy Community**

CMP Vision/Strategy: **Emergency Preparedness**

Council Initiative: **N/A**

V.O.I.C.E.: **Establish Priorities**

Departmental Objective: **Ensure Safety and Reliability to Staff and Community**



### PROJECT DESCRIPTION/JUSTIFICATION

The Ambulance Capital Reserve Fund is designed to provide adequate resources for the replacement of ambulances in accordance with a schedule that calls for replacement of one of the city's three ambulances every three years. The replacement schedule is reviewed annually and replacements advanced considering equipment condition. The regular planned replacement of ambulances minimizes on-going maintenance costs, down-time, and need to rely on other back-up services. Vehicle costs are projected to continue to increase due to implementation of federal emission standards and other safety requirements as outlined in the Safe-C 5900 standards.

Replacement schedule for units during this CIP cycle includes replacement of 19A1 in FY16 and 19A3 in FY19. While outside the CIP funding period, with adjustments compensating for inflation, sufficient funding should be available for 19A2 currently scheduled for FY22.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation								0
Property/Equip. Acquisition			215,000			230,000		445,000
<b>TOTAL</b>	\$0	\$0	\$215,000	\$0	\$0	\$230,000	\$0	\$445,000
<b>FUNDING</b>								
Current Revenue	110,136	70,000	70,000	72,500	75,000	77,500	80,000	\$445,000
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources		811	1,126	484	822	1,171	496	4,910
<b>TOTAL</b>	\$110,136	\$70,811	\$71,126	\$72,984	\$75,822	\$78,671	\$80,496	\$449,910

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Reduce - will reduce operating costs  
Multi-year

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Apparatus Capital Reserve**  
 Department: **Fire Department**  
 Physical Location: **31 Vernon Street**  
 Federal Mandate: **Annual Certifications**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **Healthy Community**  
 CMP Vision/Strategy: **Emergency Preparedness**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Establish Priorities**  
 Departmental Objective: **Ensure Safety and Reliability to Staff and Community**



### PROJECT DESCRIPTION/JUSTIFICATION

The Fire Equipment Reserve is designed to provide adequate funds to replace or rebuild fire apparatus as scheduled in the replacement plan. The fund has also been used periodically for major repairs to fire apparatus including the replacement of engines and transmissions. This fund has been used successfully for many years to ensure the availability of funds when the purchase of fire apparatus is required. Current and proposed funding rates will provide resources sufficient for all purchases excluding the replacement of Ladder 1, which is currently scheduled for FY20. It is anticipated that this vehicle would be acquired through a lease purchase similar financing arrangement.

Fire service responsibilities and equipment are changing rapidly. To ensure a timely replacement of fire apparatus the current schedule was developed. The replacement schedule allows for new safety technology, ergonomics, structural integrity of the vehicle, compliance with NFPA standards, and new innovations to be incorporated into the apparatus. This schedule also assures reliability to provide the best service to the community and the safety of our personnel. The need for reliable apparatus is a critical component of fire protection within the City. This reserve provides funding that will allow the City to replace all apparatus at the appropriate time assuring a reliable fleet.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation								0
Property/Equip. Acquisition			450,000		710,000			1,160,000
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$450,000</b>	<b>\$0</b>	<b>\$710,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,160,000</b>
<b>FUNDING</b>								
Current Revenue	127,397	215,000	245,000	290,000	295,000	295,000	200,000	\$1,667,397
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources		1,541	2,650	1,942	3,278	1,426	2,332	13,169
<b>TOTAL</b>	<b>\$127,397</b>	<b>\$216,541</b>	<b>\$247,650</b>	<b>\$291,942</b>	<b>\$298,278</b>	<b>\$296,426</b>	<b>\$202,332</b>	<b>\$1,680,566</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Reduce - will reduce operating costs Multi-year     
 **PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Ladder Replacement**  
 Department: **Fire Department**  
 Physical Location: **31 Vernon Street**  
 Federal Mandate: **Annual Certifications**

State Regulation or Law: **N/A**

Master Plan (CMP) Focus Area: **Healthy Community**

CMP Vision/Strategy: **Emergency Preparedness**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Establish Priorities**  
 Departmental Objective: **Ensure Safety and Reliability to Staff and Community**



### PROJECT DESCRIPTION/JUSTIFICATION

The Ladder Replacement Project will provide adequate funds for the replacement of the department's ladder truck currently scheduled for FY20. While regular contributions to the Apparatus Capital Reserve Fund have successfully provided needed funds for many of the city's past apparatus purchases, its current and proposed funding rates will not provide resources sufficient to accommodate the anticipated replacement of Ladder 1. It is anticipated that this vehicle would be acquired through a lease purchase or similar financing arrangement. Based on the current apparatus replacement schedule and capital reserve funding contributions now scheduled, a reduction is projected in capital reserve contributions offsetting a portion of the lease or debt service payments related to this apparatus acquisition.

To ensure a timely replacement of Ladder 1, the current schedule programming was developed. Ladder 1 was purchased in 1997 and was anticipated for replacement in 2017. This scheduled replacement allows for new safety technology, ergonomics, structural and mechanical integrity of the vehicle, compliance with NFPA standards, and new innovations to be incorporated into the apparatus. Regular replacement advances the reliability of apparatus service to the community and the safety of our personnel. Annual certification of the ladder continues and without an unexpected major mechanical or functional issue the truck is expected to meet the needs of the department until the time of scheduled replacement.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation								0
Property/Equip. Acquisition							1,000,000	1,000,000
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,000,000</b>	<b>\$1,000,000</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve								0
Debt Funded							1,000,000	1,000,000
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,000,000</b>	<b>\$1,000,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Reduce - will reduce operating costs  
Multi-year

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Defibrillator Replacement**  
 Department: **Fire Department**  
 Physical Location: **31 Vernon Street**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **Healthy Community**  
 CMP Vision/Strategy: **Maintaining a Safe Community**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Establish Priorities**  
 Departmental Objective: **Ensure Safety and Reliability to Staff and Community**



### PROJECT DESCRIPTION/JUSTIFICATION

This project would replace four (4) Life Pak 12 Defibrillators with four (4) Life Pak 15 units. The units will also provide us a tool to provide advanced life support and cardiac care in the field. The new units are more durable and continue to have an upgradeable platform to provide years of service. The original units were purchased in July of 1998. Upgrades and refurbishments to the software and equipment in 2008 and in 2010 has maintained performance in compliance with current medical protocols and technology. These base units which are now more than fifteen (15) years old will be at the end of serviceability in calendar year 2015 and replacement is recommended.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation								0
Property/Equip. Acquisition			66,205	66,205				132,410
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$66,205</b>	<b>\$66,205</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$132,410</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve								0
Debt Funded			66,205	66,205				132,410
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$66,205</b>	<b>\$66,205</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$132,410</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Reduce - will reduce operating costs  
Multi-year

**PROJECT STATUS:** New Project



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

**Project Name:** Fire Alarm System Infrastructure  
**Department:** Fire Department  
**Physical Location:** 32 Vernon Street  
**Federal Mandate:** N/A  
**State Regulation or Law:** N/A  
**Master Plan (CMP) Focus Area:** N/A  
**CMP Vision/Strategy:** Maintaining a Safe Community  
**Council Initiative:** Ordinance  
**V.O.I.C.E.:** Continually Assess Facilities and Infrastructure  
**Departmental Objective:** Ensure safety and reliability of municipal fire alarm system serving the community.



### PROJECT DESCRIPTION/JUSTIFICATION

The requested project funds would allow the replacement of equipment that operates our municipal fire alarm system and was last replaced in 1996. The circuit entrance cabinet with terminal strips, fuses, dual battery charging system, and batteries would be replaced with this upgrade. To maintain safety and reliability of the system a replacement program plan is being established for this equipment located in 32 Vernon Street.

The City of Keene Fire Department maintains and operates a municipal fire alarm system. This system currently has one hundred eighty two (182) master boxes located on buildings throughout the city and continues to grow annually. City Ordinance O-2011-03 requires specific occupancies to be connected to the municipal fire alarm system for monitoring of fire alarms for public safety. The system was last updated with a major replacement of equipment in 1996. That work included replacement of the five (5) existing circuits and the addition of five (5) new circuits, along with replacement of approximately 150,000 feet of aerial wire and 15,000 feet of underground wire. At the same time the primary infrastructure internal to the station was replaced. This equipment replacement included the circuit entrance cabinet with terminal strips and fuses, the dual battery charging system with batteries, along with digitize form 4 and the digitize 3505 solid state transmitter equipment.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation								0
Property/Equip. Acquisition				50,000				50,000
<b>TOTAL</b>	\$0		\$0	\$50,000	\$0	\$0	\$0	\$50,000
<b>FUNDING</b>								
Current Revenue				50,000				\$50,000
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	\$0	\$0	\$0	\$50,000	\$0	\$0	\$0	\$50,000

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Reduce - will reduce operating costs  
 Multi-year

**PROJECT STATUS:** New Project



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Mobile Radio Replacement**  
 Department: **Fire Department**  
 Physical Location: **31 Vernon Street**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **Healthy Community**  
 CMP Vision/Strategy: **Emergency Preparedness**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Establish Priorities**  
 Departmental Objective: **Emergency Preparedness and Personnel Safety**



### PROJECT DESCRIPTION/JUSTIFICATION

The communications mobile radio project would replace mobile radios that are used daily by Fire/EMS personnel during emergency and non-emergency operations to manage incidents, request needed resources and provide accountability and safety for our personnel and the public. As part of the New Hampshire Radio Interoperability Program all mobile radios were replaced by grant funded radios in 2003. The units for Keene were installed in 2004. The radios can no longer be factory serviced. This replacement program would allow us to maintain emergency preparedness and personnel safety by having units that are reliable and serviceable as needed for at least the next ten years. The department currently operates and maintains twenty-two (22) mobile radios. Twenty (20) of these units would require replacement in this program. The goal would be to replace all units in a three (3) year period to maintain standardized operability with units.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation								0
Property/Equip. Acquisition		23,500	23,500	23,000				70,000
<b>TOTAL</b>	<b>\$0</b>	<b>\$23,500</b>	<b>\$23,500</b>	<b>\$23,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$70,000</b>
<b>FUNDING</b>								
Current Revenue		23,500	23,500	23,000				\$70,000
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$23,500</b>	<b>\$23,500</b>	<b>\$23,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$70,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Reduce - will reduce operating costs  
 Multi-year
 
**PROJECT STATUS:** New Project



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Portable Radio Replacement**  
 Department: **Fire Department**  
 Physical Location: **31 Vernon Street**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **Healthy Community**  
 CMP Vision/Strategy: **Emergency Preparedness**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Establish Priorities**  
 Departmental Objective: **Emergency Preparedness and Personnel Safety**



### PROJECT DESCRIPTION/JUSTIFICATION

This communications portable radio project would replace portable radios that are used daily by Fire/EMS personnel during emergency and non-emergency operations to manage incidents, request needed resources and provide accountability and safety for our personnel and the public.

As part of the New Hampshire Radio Interoperability Program all portable radios were replaced by grant funded radios in 2006. The units for Keene were delivered in 2006. This replacement program would allow us to maintain emergency preparedness and personnel safety by having units that are reliable and serviceable as needed for at least the next ten years. The department currently operates and maintains sixty-six (66) portable radios. The goal would be to replace all units over a five year period unless grants or other funding becomes available to accelerate replacement.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation								0
Property/Equip. Acquisition				30,000	42,000	42,000	42,000	156,000
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$30,000</b>	<b>\$42,000</b>	<b>\$42,000</b>	<b>\$42,000</b>	<b>\$156,000</b>
<b>FUNDING</b>								
Current Revenue				30,000	42,000	42,000	42,000	\$156,000
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$30,000</b>	<b>\$42,000</b>	<b>\$42,000</b>	<b>\$42,000</b>	<b>\$156,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Reduce - will reduce operating costs  
 Multi-year
 
**PROJECT STATUS:** New Project



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **W Keene Fire Station Study**  
 Department: **Fire Department**  
 Physical Location: **110 Hastings Ave.**  
 Federal Mandate: **NO**  
 State Regulation or Law: **NO**  
 Master Plan (CMP) Focus Area: **Healthy Community**  
 CMP Vision/Strategy: **Emergency Preparedness**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Provide Emergency Response**



### PROJECT DESCRIPTION/JUSTIFICATION:

The West Keene Fire Station is currently located at 110 Hastings Avenue. The building is owned by the State of NH and supports a National Guard unit operating from the same facility. The City currently has a two year agreement, commencing August 1, 2013, with two (2) renewal terms of two (2) years each. The City of Keene and NH National Guard continue to discuss the long term use of the facility by both parties along with the possibility of the City acquiring the facility. Acquisition would allow the Fire Department to remain at the facility providing opportunity for the possibility for co-location of a fire training facility. In the event the City was to acquire this facility some renovations to improve functionality would to be considered. Funds requested would support a study of the facility for future use.

In the event the City was no longer able to operate from this facility, evaluation of other locations would be required to maintain current Fire, EMS, and Rescue services responding from West Keene.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design			20,000					20,000
Construction/Implementation								0
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$20,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$20,000</b>
<b>FUNDING</b>								
Current Revenue			20,000					\$20,000
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$20,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$20,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

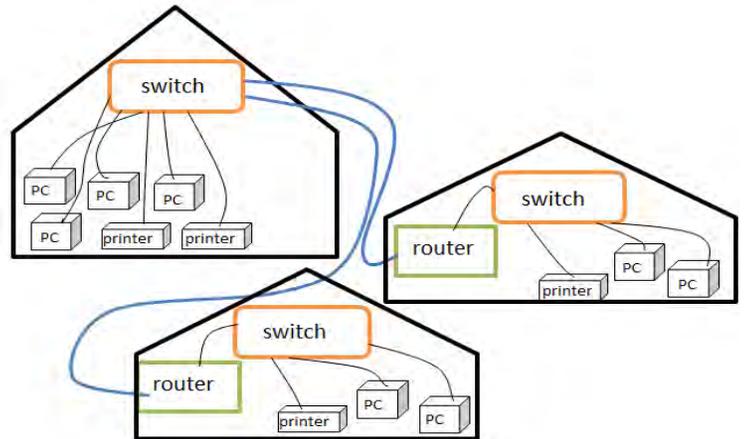
**PROJECT STATUS:** Re-introduced



# CITY OF KEENE, NEW HAMPSHIRE 2015 - 2020 Capital Project Funding Request

## GENERAL PROJECT DATA

Project Name: **Network Equipment Replacement**  
 Department: **IMS**  
 Physical Location: **Multiple Facilities**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **N/A**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective:



## PROJECT DESCRIPTION/JUSTIFICATION

The network infrastructure presently enables City information systems to be centralized to maximize accessibility. This involves cabling and switches within each building, core equipment in the IMS computer room, and firewalls that manage traffic in and out of the City network. This equipment has a limited useful life. It is important that a plan be in place for the replacement of the equipment to ensure reliable operation and compliance with minimum security requirements. This plan calls for the replacement of the network equipment in the year the manufacturer will no longer provide service, which typically ranges from five to ten years after purchase.

The City computer information systems are a mission critical asset supporting essential business operations. The availability of these systems depends upon reliable network availability and performance. In addition, the network must be protected for the purposes of confidentiality and intrusion prevention. In order to keep pace with the organizational use of information systems, the network equipment will require replacement when it reaches the manufacturer's end-of-service schedule. This will provide current security and control features that are essential to keep up with minimum industry standards, and will minimize costly down-time in the case of equipment failure.

## FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation								0
Property/Equip. Acquisition		89,000	21,000		55,800			165,800
<b>TOTAL</b>	<b>\$0</b>	<b>\$89,000</b>	<b>\$21,000</b>	<b>\$0</b>	<b>\$55,800</b>	<b>\$0</b>	<b>\$0</b>	<b>\$165,800</b>
<b>FUNDING</b>								
Current Revenue		89,000	21,000		55,800			\$165,800
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$89,000</b>	<b>\$21,000</b>	<b>\$0</b>	<b>\$55,800</b>	<b>\$0</b>	<b>\$0</b>	<b>\$165,800</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Negligible<\$5,001 Ongoing

**PROJECT STATUS:** Ongoing CIP

# Schedule of Network Equipment Replacement

Building	Type	End of life(sale)	End of Maintenance	End of Support	Replacement Cost	FY Subtotal
City Hall 3rd Floor	edge	Jan-13	Jan-14	Jan-15	\$6,800	
City Hall 4th Floor	edge	Jan-13	Jan-14	Jan-15	\$6,800	
Police	hsrp	Jan-13	Jan-14	Jan-15	\$6,800	
Police	hsrp	Jan-13	Jan-14	Jan-15	\$6,800	
Police	hsrp	Jan-13	Jan-14	Jan-15	\$6,800	
Police	hsrp	Jan-13	Jan-14	Jan-15	\$6,800	
Police	hsrp	Jan-13	Jan-14	Jan-15	\$6,800	
City Hall	core	Jan-13	Jan-14	Jan-15	\$6,800	
City Hall	core	Jan-13	Jan-14	Jan-15	\$6,800	
City Hall	core	Jan-13	Jan-14	Jan-15	\$6,800	
City Hall	core	Jan-13	Jan-14	Jan-15	\$6,800	
Library	edge	Jan-13	Jan-14	Jan-15	\$3,200	
City Hall	edge	Jan-13	Jan-14	Jul-15	\$5,500	FY15
City Hall	edge	Jan-13	Jan-14	Jul-15	\$5,500	\$89,000
City Hall	router	Jan-13	Oct-14	Jan-16	\$2,500	
Police	router	Jan-13	Oct-14	Jan-16	\$2,500	
Fire	router	Jan-13	Oct-14	Jan-16	\$2,000	
Public Works	router	Jan-13	Oct-14	Jan-16	\$2,000	
Parks and Rec	router	Jan-13	Oct-14	Jan-16	\$2,000	
Public Works	router	Jan-13	Oct-14	Jan-16	\$2,000	
Public Works	router	Jan-13	Oct-14	Jan-16	\$2,000	
Library	router	Jan-13	Oct-14	Jan-16	\$2,000	
Fire	router	Jan-13	Oct-14	Jan-16	\$2,000	FY16
Airport	router	Jan-13	Oct-14	Jan-16	\$2,000	\$21,000
Airport	edge	Oct-12	Jul-15	Jul-17	\$4,000	
Fire Central	edge	Oct-12	Jul-15	Jul-17	\$3,200	
Fire	edge	Oct-12	Jul-15	Jul-17	\$3,200	
Library	edge	Oct-12	Jul-15	Jul-17	\$4,000	
Library	edge	Oct-12	Jul-15	Jul-17	\$4,000	
Parks and Rec	edge	Oct-12	Jul-15	Jul-17	\$4,000	
Police	edge	Oct-12	Jul-15	Jul-17	\$3,000	
Public Works	edge	Oct-12	Jul-15	Jul-17	\$4,000	
Public Works	edge	Oct-12	Jul-15	Jul-17	\$3,200	
Public Works	edge	Oct-12	Jul-15	Jul-17	\$3,200	
Public Works	edge	Oct-12	Jul-15	Jul-17	\$4,000	
Public Works	edge	Oct-12	Jul-15	Jul-17	\$4,000	
Public Works	edge	Oct-12	Jul-15	Jul-17	\$4,000	
Library	edge	Oct-12	Jul-15	Jul-17	\$4,000	FY18
Fire	edge	Jan-13	Jan-14	Jan-18	\$4,000	\$55,800
City Hall	Firewall	N/A	N/A	N/A	N/A	
City Hall	Firewall	N/A	N/A	N/A	N/A	
Police	Firewall	N/A	N/A	N/A	N/A	

grand total **\$165,800**

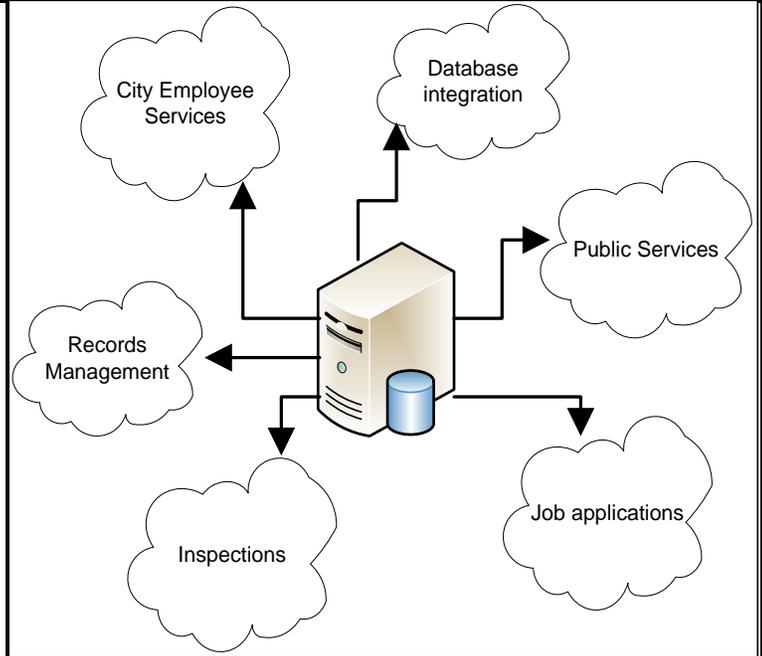


# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Oracle Database Software**  
 Department: **IMS**  
 Physical Location: **Data Center**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **N/A**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective:



### PROJECT DESCRIPTION/JUSTIFICATION

Oracle Business Intelligence, Standard Edition One, and Web Logic products are presently installed on City servers. These applications provide the tools necessary to serve both City employees and the public with critical services, such as (but not limited to) dog licensing, inspections, online job applications, records management databases, and user interfaces. They also provide a means for the integration of multiple City databases for data reliability and efficiency purposes. The tools provide the ability to accommodate database needs internally, thus avoiding what would otherwise be significant costs for independent software solutions. Oracle licenses these products based on server specifications. As the servers are replaced over time with systems that have more processing power, Oracle will require a license upgrade. This ties this project schedule directly the schedule advanced for server replacement.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation								0
Property/Equip. Acquisition				86,000				86,000
<b>TOTAL</b>	\$0	\$0	\$0	\$86,000	\$0	\$0	\$0	\$86,000
<b>FUNDING</b>								
Current Revenue				86,000				\$86,000
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	\$0	\$0	\$0	\$86,000	\$0	\$0	\$0	\$86,000

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Negligible<\$5,001 Ongoing

**PROJECT STATUS:** New Project



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Server Replacement**  
 Department: **IMS**  
 Physical Location: **City Hall & Remote Data Center**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **N/A**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective:



### PROJECT DESCRIPTION/JUSTIFICATION

Information systems are utilized by every City department in the process of providing services to the public. From email and phone systems to database and GIS systems, all require that core server equipment run reliably. This project provides funding for the replacement of existing host servers every three years, up to four operating system upgrades per year for virtual servers (a total of \$3,000 per year - which is included in the expenditures identified below), required Client Access License (CAL) upgrades as the server operating systems are upgraded, and the financial system server. This replacement schedule ensures that the processing capabilities of the server hardware and software are sufficient to support City operations.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation								0
Property/Equip. Acquisition		3,000	44,500	53,000	3,000	10,000	31,000	144,500
<b>TOTAL</b>	<b>\$0</b>	<b>\$3,000</b>	<b>\$44,500</b>	<b>\$53,000</b>	<b>\$3,000</b>	<b>\$10,000</b>	<b>\$31,000</b>	<b>\$144,500</b>
<b>FUNDING</b>								
Current Revenue		3,000	44,500	53,000	3,000	10,000	31,000	\$144,500
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$3,000</b>	<b>\$44,500</b>	<b>\$53,000</b>	<b>\$3,000</b>	<b>\$10,000</b>	<b>\$31,000</b>	<b>\$144,500</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Ongoing CIP

## Server Replacement Schedule

Server Function	1st Replacement		Replacement Cost	2nd Replacement	
	Date	Fiscal Year		Date	Fiscal Year
Virtual Server	6/1/2017	FY17	\$7,000	6/1/2020	FY20
Virtual Server	6/1/2017	FY17	\$7,000	6/1/2020	FY20
Virtual Server	6/1/2017	FY17	\$7,000	6/1/2020	FY20
Virtual Server	6/1/2016	FY16	\$7,000	6/1/2019	FY19
Backup Server	7/1/2017	FY17	\$7,000	7/1/2020	FY20
Financial Server	6/1/2017	FY17	\$22,000	6/1/2022	FY22
Server OS Client Licensing		FY16	\$34,500		FY21
<b>TOTAL</b>			\$91,500		

TOTAL REPLACEMENT COSTS	
FY15	\$0
FY16	\$41,500
FY17	\$50,000
FY18	\$0
FY19	\$7,000
FY20	\$28,000
<b>TOTAL</b>	<b>\$126,500</b>

*\*Add \$3,000 annually to cover the cost of server OS upgrades.*

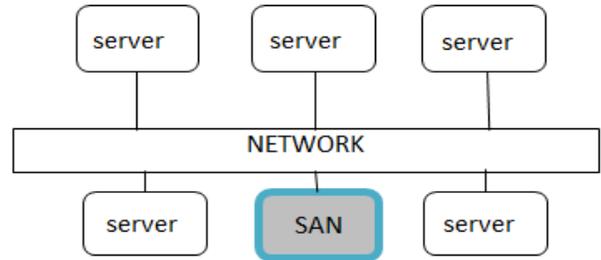


# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Storage Area Network**  
 Department: **IMS**  
 Physical Location: **Primary and Remote Data Centers**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **N/A**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective:



### PROJECT DESCRIPTION/JUSTIFICATION

The information systems utilized by City staff across all departments provide a path between the end users (computer users) and the databases on the servers. These databases and other electronic files such as documents, maps, and system backups are stored on storage area network (SAN) devices. The SAN's enable more than one server to access a single system of physical disks, allowing allocation of space to each server as needed, thus reducing the total cost of server equipment. The typical life of a storage area network (SAN) is about five years.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation					5,000			5,000
Property/Equip. Acquisition					56,000			56,000
<b>TOTAL</b>	\$0	\$0	\$0	\$0	\$61,000	\$0	\$0	\$61,000
<b>FUNDING</b>								
Current Revenue					61,000			\$61,000
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	\$0	\$0	\$0	\$0	\$61,000	\$0	\$0	\$61,000

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Negligible<\$5,001  
Ongoing

**PROJECT STATUS:** Ongoing CIP

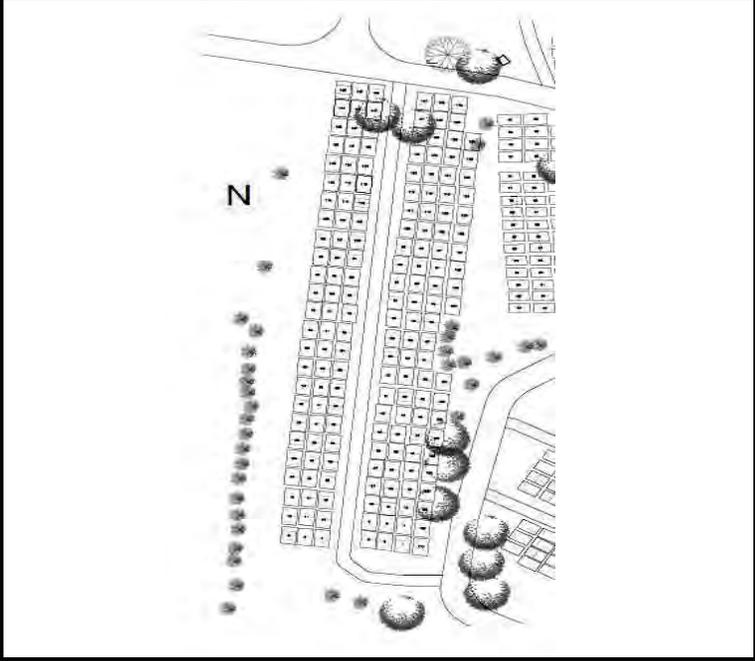


# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Cemetery Repaving**  
 Department: **Parks & Recreation**  
 Physical Location: **Cemeteries**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective:



### PROJECT DESCRIPTION/JUSTIFICATION

The project establishes a repaving program for cemetery roads in Greenlawn, Woodland, and Woodland Northeast Division Cemeteries in FY17 and Monadnock View FY18. The FY17 program would involve an overcoat of chip seal and shimming of each road in these cemeteries which have not received attention for over 20 years. The project includes 2,865 feet of road with 3,933 square yards of chipseal at \$8.00 a yard. These roads are plowed and used year round. In FY18, extension of paved surfaces at Monadnock View is planned. This project includes paving 590 feet of road in Monadnock View Cemetery Section N (shown above) with grading, additional gravel (approximately 100 cubic yards) and 175 tons of pavement at \$95.00/ton.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation				36,410	22,137			58,547
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$36,410</b>	<b>\$22,137</b>	<b>\$0</b>	<b>\$0</b>	<b>\$58,547</b>
<b>FUNDING</b>								
Current Revenue				36,410	22,137			\$58,547
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$36,410</b>	<b>\$22,137</b>	<b>\$0</b>	<b>\$0</b>	<b>\$58,547</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Negligible<\$5,001  
N/A

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Skate Park**  
 Department: **Parks & Recreation**  
 Physical Location: **Parks**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **Healthy Community**  
 CMP Vision/Strategy: **Healthy Living**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Master Plan Recommendation # 4 - Develop a comprehensive capital equipment and park asset replacement plan**



### PROJECT DESCRIPTION/JUSTIFICATION

The skate park is a heavily used area that requires weekly maintenance due to the nature of the activities inside the park and facility aging. The 9,000 square foot park on Gilbo Avenue was designed and built in 1997 when wooden frame obstacles were popular skate park features. In 2010, the Ad-Hoc Skateboard Park Relocation Committee brought forward recommendations for a possible relocation of the current facility. A new "plaza" design of poured concrete bowls and transitions will reduce the maintenance dramatically while providing an updated park for new and experienced skaters to enjoy. The new footprint will be smaller than the current park based on the estimated cost of the design, materials, and construction which have varied between \$35 and \$50 a square foot. At \$50 a square foot, a 3,250 square foot park would be designed and constructed for \$162,500. The recommendations of the Ad-Hoc Skateboard Park Relocation Committee will be considered in conjunction with those advanced by the Active and Passive Recreation Management Plan moving forward.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation		162,500						162,500
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$162,500</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$162,500</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources		162,500						162,500
<b>TOTAL</b>	<b>\$0</b>	<b>\$162,500</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$162,500</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Negligible<\$5,001  
Ongoing

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Tennis Court Improvements**  
 Department: **Parks & Recreation**  
 Physical Location: **Robin Hood & Ellis Harrison Parks**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **Healthy Community**  
 CMP Vision/Strategy: **Healthy Living**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Master Plan Recommendation # 4 - Develop a comprehensive capital equipment and park asset replacement plan**



### PROJECT DESCRIPTION/JUSTIFICATION

Through the process resulting in the Active and Passive Recreation Management Plan, it was recommended to maintain and improve facilities in the City's parks, trails, and open space. The tennis courts at Robin Hood and Ellis Harrison Parks have significant cracks and in some cases the courts are unplayable. This project will power wash the courts, fill and seal the cracks with binder material, reclean the surface and recoat the courts with paint and regulation lines. Wheelock Park courts are being completed with funding authorized in FY14.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation	9,000	24,870						33,870
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$9,000</b>	<b>\$24,870</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$33,870</b>
<b>FUNDING</b>								
Current Revenue	9,000	24,870						\$33,870
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$9,000</b>	<b>\$24,870</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$33,870</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Ongoing CIP

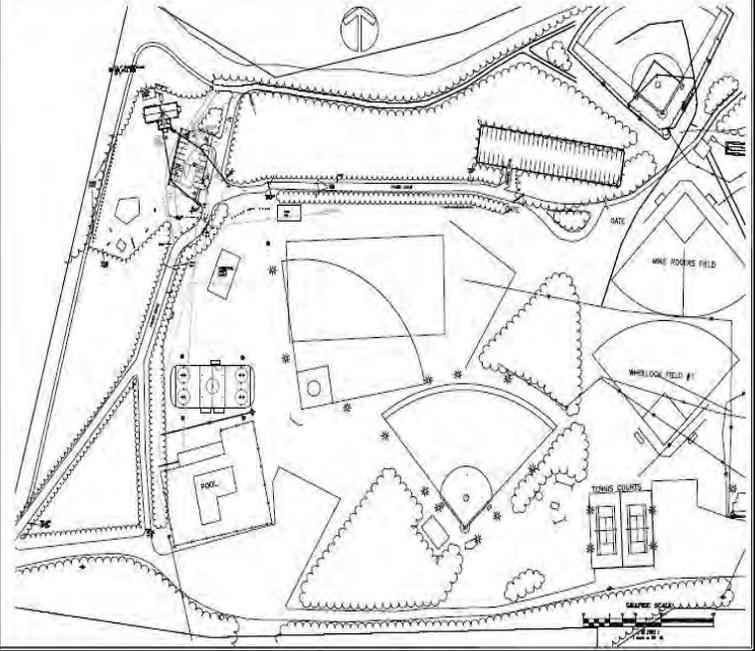


# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Wheelock Park Improvements**  
 Department: **Parks & Recreation**  
 Physical Location: **Wheelock Park**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **Healthy Community**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Master Plan Recommendation # 4 - Develop a comprehensive capital equipment and park asset replacement plan**



### PROJECT DESCRIPTION/JUSTIFICATION

In 1886 George Wheelock bought the old West Keene fairgrounds and gave it to the City as Wheelock Park. The 41 acre park, on the west side of Keene, is now a series of playing fields with a fringe of surrounding forest. There are also tennis courts, horseshoe courts, playground equipment, a campground, a swimming pool, splash pad, along with a seasonal ice hockey rink. These facilities have served the city well as most were established in the mid 1960's. Recommendation #4 from the Active and Passive Recreation Management Plan is to "Develop a comprehensive capital equipment and park asset replacement plan." Creating a concept plan along with the Facilities Condition Assessment currently underway will serve as a blueprint guiding this effort.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation			330,000	310,000				640,000
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$330,000</b>	<b>\$310,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$640,000</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources			330,000	310,000				640,000
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$330,000</b>	<b>\$310,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$640,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Negligible<\$5,001 Ongoing

**PROJECT STATUS:** New Project



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Digital Base Map Update**  
 Department: **Planning**  
 Physical Location: **3 Washington Street**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Community Sustainability**  
 Council Initiative: **Ordinance**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **GIS MasterPlan**



### PROJECT DESCRIPTION/JUSTIFICATION

This project will update the existing digital base map for the City of Keene with new aerial photography to produce digital planimetric data and ortho-photographs. Up-to-date base maps are the most necessary component and foundation of an accurate GIS. An update to Keene's 2002 digital base map and aerial photography is needed to keep the City's GIS an effective tool. Since 2002 the landscape of Keene has seen significant development and change which this aerial photography will document. Accurate digital data derived from ortho-photography will be gathered including: buildings, roads, topography, utilities, water bodies and other natural and man-made features. Keene's GIS supports city departments, the City Council, Planning Board, and other citizen decision makers; public utilities, regional, state and federal agencies as well as the construction, development, and real estate industries and the general public. This project would continue the City's seven decade history of completing timely updates to its aerial photography. In order to offset costs, cost sharring with stake holders is an option.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design		180,000						180,000
Construction/Implementation								0
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$180,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$180,000</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve								0
Debt Funded		180,000						180,000
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$180,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$180,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Ongoing CIP

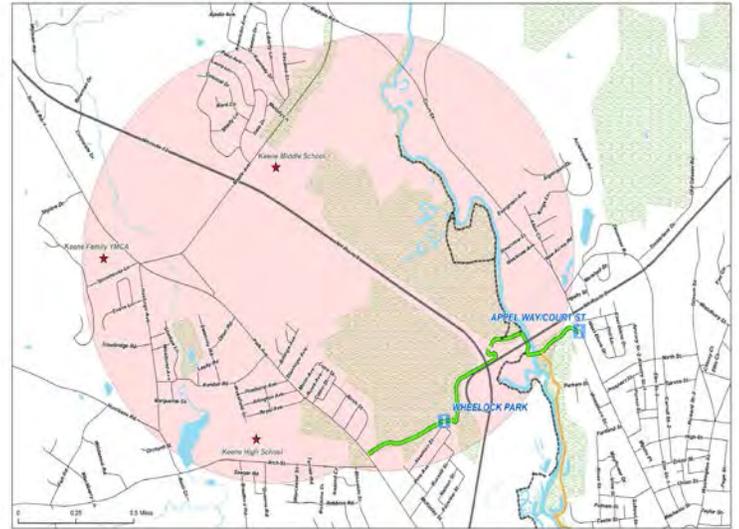


# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Jonathan Daniels Trail Study**  
 Department: **Planning**  
 Physical Location: **3 Washington Street**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **Healthy Community**  
 CMP Vision/Strategy: **Trails & Bike Pathways**  
 Council Initiative: **Ordinance**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Bicycle Pedestrian Path Advisory Committee (BPPAC) high priority path**



### PROJECT DESCRIPTION/JUSTIFICATION

This project advances a feasibility study analyzing the best route for a bicycle and pedestrian infrastructure connection between Wheelock Park and the Appel Way Trail (shown in green) to Maple Avenue/Summit Road. Due to the recent development of community services, such as the YMCA and new Keene Middle School (marked by red stars) in West Keene, a safe and delineated connection to the existing bicycle/pedestrian pathway system is necessary. This project will determine a preferred route out of three alternatives. The three main corridors to be studied are a) an existing walking trail along the west shore of the Ashuelot River b) along State Route 12 and c) along Park Avenue. The study phase will include a public input session. A Capital Improvements Program Design/Construction project, based on the study's findings, is anticipated.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design		20,000						20,000
Construction/Implementation								0
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$20,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$20,000</b>
<b>FUNDING</b>								
Current Revenue		20,000						\$20,000
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$20,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$20,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Land Use Code Update**  
 Department: **Planning**  
 Physical Location: **3 Washington Street**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **RSA 674 Local Land Use Planning and Regulatory Powers**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Future Land Use & Public Policy**  
 Council Initiative: **Ordinance**  
 V.O.I.C.E.: **Establish Priorities**  
 Departmental Objective: **Master Plan Implimentation**



### PROJECT DESCRIPTION/JUSTIFICATION

Good codes are the foundation upon which great communities are built. They are the framework that regulates how and where different types of development may occur. Codes guide everything from permissible land uses, to building densities, aesthetics, locations, and setbacks, to street widths and parking requirements. When done well, codes make it easier for a community to implement its vision. However, when they are out of date or don't line up with the community's vision, codes can keep communities from attracting the development they want. For example, the standard zoning practice of the past few decades has separated residential, retail, and office uses. Today this zoning can stand in the way of communities that want to create vibrant, walkable neighborhoods that mix these uses and give residents the option to walk to the store, walk to work, or own a home business. The recent Re-Zoning project for Marlboro Street and Keene's southeast neighborhood has reminded us of zoning's intricate interconnectedness with other priority municipal issues such as stormwater management, the complexity of infrastructure improvements, and the public's desire for interconnected green spaces. These issues, and other "lessons learned" from the Marlboro Street Re-Zoning Project will be applied to the City-wide Land Use Code Update. Lastly, updating the City's codes is a top implementation strategy identified in the 2010 Comprehensive Master Plan. As such, this project will require extensive public participation, drafting, testing, and then final codification of a new code. In order to complete this project, consultant support will be needed to assist City staff. The project will require engaging our citizenry in the following steps: 1) Analysis and Problem Definition, 2) Identification of Alternative Approaches, 3) Drafting of the Code, 4) Public Review and 5) Adoption and Implementation. A final scope of work has not yet been determined.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design	100,000	100,000						200,000
Construction/Implementation								0
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$200,000</b>
<b>FUNDING</b>								
Current Revenue	100,000	100,000						\$200,000
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$200,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Ongoing CIP

CONSOLIDATED INFRASTRUCTURE REPORT								FY15	
STREET		Rehab	Reconstruct	Sewer	Water	Drainage	Sidewalk	Curbing	Total
<b>FY 15 Detail</b>									
Arch Street - (Felt to Chesterfield)	2015	\$ 57,334							\$ 57,334
Daniels Hill Road	2015	\$ 163,354							\$ 163,354
Davis Street	2015	\$ 72,007							\$ 72,007
Depot Road	2015	\$ 16,212							\$ 16,212
Hurricane Road - Phase 1	2015	\$ 169,258							\$ 169,258
Key Road	2015	\$ 287,514							\$ 287,514
Langley Road	2015	\$ 33,008							\$ 33,008
Ralston Street	2015	\$ 83,708							\$ 83,708
Swanzy Factory Road	2015	\$ 96,365							\$ 96,365
Wilcox Terrace	2015	\$ 11,446							\$ 11,446
General Drainage Improvements						\$ 40,000			\$ 40,000
General Sidewalk Improvements							\$ 40,000		\$ 40,000
General Curbing Improvements								\$ 40,000	\$ 40,000
Water Main Replacement - Allan Court					\$ 309,000				\$ 309,000
<b>Detail: FY 2015 Projects</b>		\$ 990,208	\$ -	\$ -	\$ 309,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 1,419,208
<b>Contingency: - 10%</b>		\$ 99,021	\$ -	\$ -	\$ 30,900	\$ 4,000	\$ 4,000	\$ 4,000	\$ 141,921
<b>Subtotal</b>		\$ 1,089,229	\$ -	\$ -	\$ 339,900	\$ 44,000	\$ 44,000	\$ 44,000	\$ 1,561,129
<b>Design: - 10%</b>			\$ -	\$ -	\$ 33,990				\$ 33,990
<b>Construction Administration: - 10%</b>			\$ -	\$ -	\$ 33,990				\$ 33,990
<b>SUPV. &amp; Overhead: - 1%</b>		\$ 10,892	\$ -	\$ -	\$ 3,399	\$ 440	\$ 440	\$ 440	\$ 15,611
<b>Subtotal</b>		\$ 10,892	\$ -	\$ -	\$ 71,379	\$ 440	\$ 440	\$ 440	\$ 83,591
<b>Project Total</b>		\$ 1,100,121	\$ -	\$ -	\$ 411,279	\$ 44,440	\$ 44,440	\$ 44,440	\$ 1,644,720
<b>Inflation adjustment 2 yrs x 3%/yr proj total</b>		\$ 66,997	\$ -	\$ -	\$ 25,047	\$ 2,706	\$ 2,706	\$ 2,706	\$ 100,163
<b>Program Funding Request: 2015</b>		\$ 1,167,118	\$ -	\$ -	\$ 436,326	\$ 47,146	\$ 47,146	\$ 47,146	\$ 1,744,883

CONSOLIDATED INFRASTRUCTURE REPORT								FY16	
STREET	Year	Rehab	Reconstruct	Sewer	Water	Drainage	Sidewalk	Curbing	Total
<b>FY 16 Detail</b>									
Algonquin Road	2016	\$ 45,833							\$ 45,833
Chesterfield Road - North of Rte 9	2016	\$ 170,538							\$ 170,538
Chesterfield Road - South of Route 9	2016	\$ 85,756							\$ 85,756
Grimes Road	2016	\$ 33,356							\$ 33,356
Hurricane Road - Phase 2	2016	\$ 410,246							\$ 410,246
Stearns Road	2016	\$ 23,018							\$ 23,018
Wyman Road	2016	\$ 196,576							\$ 196,576
General Drainage Improvements						\$ 40,000			\$ 40,000
General Sidewalk Improvements							\$ 40,000		\$ 40,000
General Curbing Improvements								\$ 40,000	\$ 40,000
Water Main Replacement - Hurricane Road					\$ 250,000				\$ 250,000
Silent Way Sewer Replacement				\$ 623,150					\$ 623,150
<b>Detail: FY 2016 Projects</b>		\$ 965,322	\$ -	\$ 623,150	\$ 250,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 1,958,472
<b>Contingency: - 10%</b>		\$ 96,532	\$ -	\$ 62,315	\$ 25,000	\$ 4,000	\$ 4,000	\$ 4,000	\$ 195,847
<b>Subtotal</b>		\$ 1,061,854	\$ -	\$ 685,465	\$ 275,000	\$ 44,000	\$ 44,000	\$ 44,000	\$ 2,154,319
<b>Design: - 10%</b>			\$ -	\$ 68,547	\$ 27,500	\$ 4,400	\$ 4,400	\$ 4,400	\$ 109,247
<b>Construction Administration: - 10%</b>			\$ -	\$ 68,547	\$ 27,500	\$ 4,400	\$ 4,400	\$ 4,400	\$ 109,247
<b>SUPV. &amp; Overhead: - 1%</b>		\$ 10,619	\$ -	\$ 6,855	\$ 2,750	\$ 440	\$ 440	\$ 440	\$ 21,543
<b>Subtotal</b>		\$ 10,619	\$ -	\$ 143,948	\$ 57,750	\$ 9,240	\$ 9,240	\$ 9,240	\$ 240,036
<b>Project Total</b>		\$ 1,072,473	\$ -	\$ 829,413	\$ 332,750	\$ 53,240	\$ 53,240	\$ 53,240	\$ 2,394,356
<b>Inflation adjustment 3 yrs x 3%/yr proj total</b>		\$ 99,447	\$ -	\$ 76,909	\$ 30,855	\$ 4,937	\$ 4,937	\$ 4,937	\$ 222,021
<b>Program Funding Request: 2016</b>		\$ 1,171,920	\$ -	\$ 906,322	\$ 363,605	\$ 58,177	\$ 58,177	\$ 58,177	\$ 2,616,377

CONSOLIDATED INFRASTRUCTURE REPORT								FY17	
STREET	Year	Rehab	Reconstruct	Sewer	Water	Drainage	Sidewalk	Curbing	Total
<b>FY 17 Detail</b>									
Crescent Street	2017	\$ 22,677							\$ 22,677
East Surry Road	2017	\$ 304,731							\$ 304,731
Meadow Road	2017	\$ 30,729							\$ 30,729
Mill Road	2017	\$ 8,958							\$ 8,958
Pearl Street	2017	\$ 172,512							\$ 172,512
Roxbury Road	2017	\$ 187,056							\$ 187,056
Wagner Street	2017	\$ 7,983							\$ 7,983
Water Street (Grove to Roxbury)	2017	\$ 222,003							\$ 222,003
Wood Street	2017	\$ 26,243							\$ 26,243
General Drainage Improvements	2017					\$ 40,000			\$ 40,000
General Sidewalk Improvements	2017						\$ 40,000		\$ 40,000
General Curbing Improvements	2017							\$ 40,000	\$ 40,000
Emerald Street Sidewalk	2017						\$ 154,500		\$ 154,500
Water - Glen Rd Pumps & Check Valves	2017				\$ 257,500				\$ 257,500
Perham Sewer Replacement				\$ 665,380					\$ 665,380
<b>Detail: FY 2017 Projects</b>		\$ 982,891	\$ -	\$ 665,380	\$ 257,500	\$ 40,000	\$ 194,500	\$ 40,000	\$ 2,180,271
<b>Contingency: - 10%</b>		\$ 98,289	\$ -	\$ 66,538	\$ 25,750	\$ 4,000	\$ 19,450	\$ 4,000	\$ 218,027
<b>Subtotal</b>		\$ 1,081,180	\$ -	\$ 731,918	\$ 283,250	\$ 44,000	\$ 213,950	\$ 44,000	\$ 2,398,298
<b>Design: - 10%</b>		\$ -	\$ -	\$ 73,192	\$ 28,325	\$ 4,400	\$ 21,395	\$ 4,400	\$ 131,712
<b>Construction Administration: - 10%</b>		\$ -	\$ -	\$ 73,192	\$ 28,325	\$ 4,400	\$ 21,395	\$ 4,400	\$ 131,712
<b>SUPV. &amp; Overhead: - 1%</b>		\$ 10,812	\$ -	\$ 7,319	\$ 2,833	\$ 440	\$ 2,140	\$ 440	\$ 23,983
<b>Subtotal</b>		\$ 10,812	\$ -	\$ 153,703	\$ 59,483	\$ 9,240	\$ 44,930	\$ 9,240	\$ 287,407
<b>Project Total</b>		\$ 1,091,992	\$ -	\$ 885,621	\$ 342,733	\$ 53,240	\$ 258,880	\$ 53,240	\$ 2,685,705
<b>Inflation Adjustment 3%/yr x 4 yrs</b>		\$ 137,055	\$ -	\$ 111,153	\$ 43,016	\$ 6,682	\$ 32,492	\$ 6,682	\$ 337,080
<b>Program Funding Request: 2017</b>		\$ 1,229,047	\$ -	\$ 996,774	\$ 385,748	\$ 59,922	\$ 291,371	\$ 59,922	\$ 3,022,784

CONSOLIDATED INFRASTRUCTURE REPORT								FY18	
STREET	Year	Rehab	Reconstruct	Sewer	Water	Drainage	Sidewalk	Curbing	Total
<b>FY 18 Detail</b>									
Armory Street (North to end)	2018	\$ 65,657							\$ 65,657
Baker Street	2018	\$ 116,742							\$ 116,742
Crossfield Street	2018	\$ 6,772							\$ 6,772
Dunbar Street	2018	\$ 24,014							\$ 24,014
Ellis Court (Wright to Woodbury)	2018	\$ 24,449							\$ 24,449
Gilsum Street (North to end)	2018	\$ 115,886							\$ 115,886
Harrison Street	2018	\$ 22,007							\$ 22,007
Jordan Road	2018	\$ 203,947							\$ 203,947
North Street (Elm to Gilsum)	2018	\$ 44,302							\$ 44,302
Red Oak Drive	2018	\$ 54,209							\$ 54,209
Willow Court	2018	\$ 4,002							\$ 4,002
Willow Street	2018	\$ 33,387							\$ 33,387
Woodbury Street	2018	\$ 165,632							\$ 165,632
Wright Street	2018	\$ 27,104							\$ 27,104
General Drainage Improvements	2018					\$ 40,000			\$ 40,000
General Sidewalk Improvements	2018						\$ 40,000		\$ 40,000
General Curbing Improvements	2018							\$ 40,000	\$ 40,000
Colony Court Sewer Replacement (Bloomer Swamp)				\$ 863,160	\$ 98,770				\$ 961,929
<b>Detail: FY 2018 Projects</b>		\$ 908,108	\$ -	\$ 863,160	\$ 98,770	\$ 40,000	\$ 40,000	\$ 40,000	\$ 1,990,037
<b>Contingency: - 10%</b>		\$ 90,811	\$ -	\$ 86,316	\$ 9,877	\$ 4,000	\$ 4,000	\$ 4,000	\$ 199,004
<b>Subtotal</b>		\$ 998,919	\$ -	\$ 949,476	\$ 108,647	\$ 44,000	\$ 44,000	\$ 44,000	\$ 2,189,041
<b>Design: - 10%</b>		\$ -	\$ -	\$ 94,948	\$ 10,865	\$ 4,400	\$ 4,400	\$ 4,400	\$ 119,012
<b>Construction Administration: - 10%</b>		\$ -	\$ -	\$ 94,948	\$ 10,865	\$ 4,400	\$ 4,400	\$ 4,400	\$ 119,012
<b>SUPV. &amp; Overhead: - 1%</b>		\$ 9,989	\$ -	\$ 9,495	\$ 1,086	\$ 440	\$ 440	\$ 440	\$ 21,890
<b>Subtotal</b>		\$ 9,989	\$ -	\$ 199,390	\$ 22,816	\$ 9,240	\$ 9,240	\$ 9,240	\$ 259,915
<b>Project Total</b>		\$ 1,008,908	\$ -	\$ 1,148,865	\$ 131,463	\$ 53,240	\$ 53,240	\$ 53,240	\$ 2,448,956
<b>Inflation Adjustment 3%/yr x 5 yrs</b>		\$ 160,693	\$ -	\$ 182,984	\$ 20,939	\$ 8,480	\$ 8,480	\$ 8,480	\$ 390,055
<b>Program Funding Request: 2018</b>		\$ 1,169,601	\$ -	\$ 1,331,850	\$ 152,401	\$ 61,720	\$ 61,720	\$ 61,720	\$ 2,839,011

CONSOLIDATED INFRASTRUCTURE REPORT								FY19	
STREET	Year	Rehab	Reconstruct	Sewer	Water	Drainage	Sidewalk	Curbing	Total
<b>FY 19 Detail</b>									
Arch Street - (Park to Hurricane)	2019	\$ 193,854							\$ 193,854
Bridge Court	2019	\$ 9,851							\$ 9,851
Carpenter Street	2019	\$ 42,770							\$ 42,770
Fowler Street	2019	\$ 23,096							\$ 23,096
Gunn Road	2019	\$ 188,208							\$ 188,208
Harmony Lane	2019	\$ 13,352							\$ 13,352
Kingsbury Street	2019	\$ 19,660							\$ 19,660
Peg Shop Road	2019	\$ 139,541							\$ 139,541
Perham Street	2019	\$ 10,874							\$ 10,874
Richardson Court	2019	\$ 10,666							\$ 10,666
River Street	2019	\$ 64,944							\$ 64,944
Sullivan Road (Rte 9 to town line)	2019	\$ 86,638							\$ 86,638
Valley Street	2019	\$ 47,048							\$ 47,048
Village Drive	2019	\$ 54,486							\$ 54,486
Woodburn Street	2019	\$ 27,104							\$ 27,104
General Drainage Improvements	2019					\$ 40,000			\$ 40,000
General Sidewalk Improvements	2019						\$ 40,000		\$ 40,000
General Curbing Improvements	2019							\$ 40,000	\$ 40,000
Sewer Replacement - to be determined	2019			\$ 250,000					\$ 250,000
Water Replacement - to be determined	2019				\$ 250,000				\$ 250,000
<b>Detail: FY 2019 Projects</b>		\$932,093	\$ -	\$250,000	\$250,000	\$40,000	\$40,000	\$40,000	\$ 1,552,093
<b>Contingency: - 10%</b>		\$ 93,209	\$ -	\$ 25,000	\$ 25,000	\$ 4,000	\$ 4,000	\$ 4,000	\$ 155,209
<b>Subtotal</b>		<b>\$ 1,025,302</b>	<b>\$ -</b>	<b>\$ 275,000</b>	<b>\$ 275,000</b>	<b>\$ 44,000</b>	<b>\$ 44,000</b>	<b>\$ 44,000</b>	<b>\$ 1,707,302</b>
<b>Design: - 10%</b>		\$ -	\$ -	\$ 27,500	\$ 27,500	\$ 4,400	\$ 4,400	\$ 4,400	\$ 68,200
<b>Construction Administration: - 10%</b>		\$ -	\$ -	\$ 27,500	\$ 27,500	\$ 4,400	\$ 4,400	\$ 4,400	\$ 68,200
<b>SUPV. &amp; Overhead: - 1%</b>		\$ 10,253	\$ -	\$ 2,750	\$ 2,750	\$ 440	\$ 440	\$ 440	\$ 17,073
<b>Subtotal</b>		<b>\$ 10,253</b>	<b>\$ -</b>	<b>\$ 57,750</b>	<b>\$ 57,750</b>	<b>\$ 9,240</b>	<b>\$ 9,240</b>	<b>\$ 9,240</b>	<b>\$ 153,473</b>
<b>Project Total</b>		<b>\$ 1,035,555</b>	<b>\$ -</b>	<b>\$ 332,750</b>	<b>\$ 332,750</b>	<b>\$ 53,240</b>	<b>\$ 53,240</b>	<b>\$ 53,240</b>	<b>\$ 1,860,775</b>
<b>Inflation Adjustment 3%/yr x 6 yrs</b>		\$ 200,952	\$ -	\$ 64,571	\$ 64,571	\$ 10,331	\$ 10,331	\$ 10,331	\$ 361,088
<b>Program Funding Request: 2019</b>		<b>\$ 1,236,507</b>	<b>\$ -</b>	<b>\$ 397,321</b>	<b>\$ 397,321</b>	<b>\$ 63,571</b>	<b>\$ 63,571</b>	<b>\$ 63,571</b>	<b>\$ 2,221,863</b>

CONSOLIDATED INFRASTRUCTURE REPORT								FY20	
STREET	Year	Rehab	Reconstruct	Sewer	Water	Drainage	Sidewalk	Curbing	Total
<b>FY 20 Detail</b>									
Adams Court	2020	\$ 9,050							\$ 9,050
Adams Street	2020	\$ 66,497							\$ 66,497
Avalon Place	2020	\$ 7,804							\$ 7,804
Concord Road	2020	\$ 228,308							\$ 228,308
Elliot Street	2020	\$ 28,454							\$ 28,454
Gates Street	2020	\$ 21,307							\$ 21,307
Main Street (Ete 101 to Marlborough St)	2020	\$ 273,238							\$ 273,238
Moore Farm Road	2020	\$ 26,740							\$ 26,740
No Name Road	2020	\$ 12,981							\$ 12,981
Park Avenue	2020	\$ 326,212							\$ 326,212
Proctor Court	2020	\$ 16,238							\$ 16,238
South Street	2020	\$ 24,372							\$ 24,372
General Drainage Improvements	2020					\$ 40,000			\$ 40,000
General Sidewalk Improvements	2020						\$ 40,000		\$ 40,000
General Curbing Improvements	2020							\$ 40,000	\$ 40,000
Sewer Replacement - To Be Determined	2020			\$ 250,000					\$ 250,000
Water Replacement - To Be Determined	2020				\$ 250,000				\$ 250,000
<b>Detail: FY 2020 Projects</b>		\$1,041,199	\$ -	\$250,000	\$250,000	\$40,000	\$40,000	\$40,000	\$ 1,661,199
<b>Contingency: - 10%</b>		\$ 104,120	\$ -	\$ 25,000	\$ 25,000	\$ 4,000	\$ 4,000	\$ 4,000	\$ 166,120
<b>Subtotal</b>		<b>\$ 1,145,319</b>	<b>\$ -</b>	<b>\$ 275,000</b>	<b>\$ 275,000</b>	<b>\$ 44,000</b>	<b>\$ 44,000</b>	<b>\$ 44,000</b>	<b>\$ 1,827,319</b>
<b>Design: - 10%</b>		\$ -	\$ -	\$ 27,500	\$ 27,500	\$ 4,400	\$ 4,400	\$ 4,400	\$ 68,200
<b>Construction Administration: - 10%</b>		\$ -	\$ -	\$ 27,500	\$ 27,500	\$ 4,400	\$ 4,400	\$ 4,400	\$ 68,200
<b>SUPV. &amp; Overhead: - 1%</b>		\$ 11,453	\$ -	\$ 2,750	\$ 2,750	\$ 440	\$ 440	\$ 440	\$ 18,273
<b>Subtotal</b>		<b>\$ 11,453</b>	<b>\$ -</b>	<b>\$ 57,750</b>	<b>\$ 57,750</b>	<b>\$ 9,240</b>	<b>\$ 9,240</b>	<b>\$ 9,240</b>	<b>\$ 154,673</b>
<b>Project Total</b>		<b>\$ 1,156,772</b>	<b>\$ -</b>	<b>\$ 332,750</b>	<b>\$ 332,750</b>	<b>\$ 53,240</b>	<b>\$ 53,240</b>	<b>\$ 53,240</b>	<b>\$ 1,981,992</b>
<b>Inflation adjustment 3%/yr x 7 yrs</b>		\$ 265,912	\$ -	\$ 76,491	\$ 76,491	\$ 12,238	\$ 12,238	\$ 12,238	\$ 455,608
<b>Program Funding Request: 2020</b>		<b>\$ 1,422,684</b>	<b>\$ -</b>	<b>\$ 409,241</b>	<b>\$ 409,241</b>	<b>\$ 65,478</b>	<b>\$ 65,478</b>	<b>\$ 65,478</b>	<b>\$ 2,437,600</b>



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Airport Road Culvert Repair**  
 Department: **Public Works - General Fund**  
 Physical Location: **Airport Road**  
 Federal Mandate: **NO**  
 State Regulation or Law: **NO**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **YES**



### PROJECT DESCRIPTION/JUSTIFICATION

This project is for the permitting, design, and construction to repair/replace a culvert structure underneath Airport Road. This road provides access to the City's Wastewater Treatment Plant along with other airport land. The culvert is a double 48" X 36" corrugated metal pipe, 60 feet long and has been in place for over 28 years. The corrugated metal has deteriorated and shows signs of compression from the earth and roadway above. An additional concern is the City's sewer force main sitting, directly above the culvert, that runs from the Martell Court Pumping Station to the Wastewater Treatment Plant. The sewer force main may be in jeopardy of failure should the existing culvert collapse.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design/Permitting		10,000						10,000
Construction/Implementation		120,000						120,000
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$130,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$130,000</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve								0
Debt Funded		130,000						130,000
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$130,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$130,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Ongoing CIP

## Bridge Rehabilitation and Replacement Program

The City is responsible for thirty-two (32) active bridges which provide critical transportation links to the various parts of the City. The bridges range in age from 1921 to 2012. The New Hampshire Department of Transportation (NHDOT) assists the City by inspecting bridges on a bi-annual basis. Bridges are broken down and each bridge subsystem (deck, superstructure, substructure, railing, approaches, etc.) are reviewed and their condition is rated. The ratings ranges from 9 – Excellent Condition to 1 – Imminent Failure. Bridges that are identified with significant deficiencies (ratings of 5 or less) are classified as “Red Listed” and inspected annually. City bridges have deficiencies ranging from insufficient lane width to deterioration of deck surfaces and supporting members. The City has 14 bridges that are on the State’s Red List which are listed below:

Baker Street over Beaver Brook	Harrison Street over Beaver Brook*
Main Street/Rte. 12 over Beaver Brook	Winchester St/Rte. 10 over Ash Swamp Brook
Roxbury Street over Beaver Brook	Maple Ave over Black Brook
Island Street over Ashuelot River	Beaver Street over Beaver Brook
George Street over Beaver Brook	Church Street over Beaver Brook
Spring Street over Beaver Brook	Whitcomb Mills Road over White Brook
Summit Road over Black Brook	Ferry Brook Road over Ferry Brook

Note: \*City Council, on February 18, 2010 ,voted to close the Harrison Street Bridge when Railroad Street was discontinued.

City bridge projects are eligible to participate in the State’s Municipal Bridge Aid Program. This program shares the cost of bridge repair/replacement between the community and the State. The program provides 80% funding from the State with a 20% match from the community. To be considered for funding the City must indicate that it has appropriated it’s 20% share. The State Bridge Program has approximately \$6.8M +/- available per year which funds 10-12 bridge projects. Statewide there are 353 Red Listed municipal bridges and there is no projected increase in the State funding which has resulted in the program becoming very competitive. In the State’s proposed 10 Year Transportation Improvement Plan (TIP) 2015-2024 (dated September 5, 2013) the City has one bridge funded, Roxbury Street over Beaver Brook in FY18.

With the limited funding from the State, a different approach is proposed to address the City’s Red Listed bridges. In reviewing bridges for prioritization, along with the condition and type of deficiency, the City Engineer reviewed the amount of traffic that uses the bridge, the impacts if weight restrictions or closure occurred, and if there was a reasonable way around the bridge. The Main Street/Rte. 12 and Winchester Street/Rte. 10 bridges both have over 20,000 vehicles per day crossing them with no easy detour if weight restriction or closure were to occur. If weight restriction or closure occurred on either of these bridges there would be significant economic and social impacts to the City and the region. Therefore these are the recommended top two bridges, with the following bridges to be focused on over the next six to ten years; Roxbury Street and Beaver Street over Beaver Brook, Maple Avenue over Black Brook, and Island Street over the Ashuelot River. The remaining Red Listed bridges would have lower impacts if they had restrictions or closed.

It is proposed to address the identified bridges as follows:

**Main Street/Rte. 12** The City had previously appropriated \$330K. In 2013, NHDOT approved the transfer of previously approved State funds of \$331K for the Spring Street bridge over the Beaver Brook to the Main Street bridge for a total of \$661K. Preliminary assessment of this bridge indicates that the bridge cannot be rehabilitated because it cannot handle a 50-year storm event without surcharging or backing up water in the Beaver Brook. The estimated replacement cost is approximately \$1.9M. The City will be working with NHDOT to see if an additional funding of \$1.22M from State can be directed to this priority crossing.

**Winchester St/Rte. 10.** This bridge’s rehabilitation cost, including bridge widening and a temporary construction phase bypass bridge, is \$580K. The City had previously appropriated \$213K. In 2013, the City requested and NHDOT approved the transfer of previously approved state funding of \$360K from the Church Street bridge to the Winchester Street bridge. This will allow the City to begin the design process.

**Roxbury Street.** The estimated bridge replacement cost is \$920K requiring a local match of \$184K. The City has previously appropriated \$134K. This bridge is programmed in the States’ 2015-2024 TIP for FY18. To have sufficient funds for the implementation available in FY18 funds set aside for the East Surry Road Bridge, reconstructed as part of the City’s May 2012 flood response, will be proposed for reallocation to this project during calendar year 2014.

**Maple Avenue.** The estimated replacement cost is \$650K. A request to authorize \$130K in FY15 for the City’s 20% match to allow the City to request consideration of State Municipal Bridge Aid for this project in the 2017-2026 TIP.

**Beaver Street.** The estimated replacement cost is \$460K. The City previously appropriated \$92K for its match and will be requesting consideration of State Municipal Bridge Program funding in the 2017-2026 TIP.

**Island Street.** The bridge is to scheduled to be replaced as part of the Winchester Street Upgrade Project (10309B) programmed for construction in FY17 and FY18. Funding of the city’s share of this bridge replacement is included in the Keene-Swanzey Bypass project.



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Bridge Repair/Replacement**  
 Department: **Public Works - General Fund**  
 Physical Location: **Various**  
 Federal Mandate: **NO**  
 State Regulation or Law: **NO**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **Policy**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **YES**



### PROJECT DESCRIPTION/JUSTIFICATION

This project provides funding for bridge repair and replacement. The City participates in the State's Municipal Bridge Program through the New Hampshire Department of Transportation (NHDOT). The program provides 80% State funding with a local 20% match. For consideration in the program the City must indicate that it has appropriated the local match. The Maple Avenue Bridge over Black Brook is a Red Listed Bridge and has a preliminary estimate for repair of \$650,000 with a City's match of \$130,000. In FY15 authorization of a bond issue is requested to allow the City to submit an application for this project to Municipal Bridge Program. Because of this state program funding constraints, and community bridge projects already scheduled, it is not anticipated that this bridge would be programmed for constructing within this CIP planning period (2015-2020). The Roxbury Street bridge project, scheduled in the State Municipal Bridge Aid Program for FY18, has a portion of its local match (\$130k) available in capital reserve. Re-allocation of capital reserve funds for the East Surry Road bridge will be requested in to fund the balance required.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design					138,000			138,000
Construction/Implementation					782,000			782,000
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$920,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$920,000</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve					184,000			184,000
Debt Funded		130,000						130,000
Federal or State Grants					736,000			736,000
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$130,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$920,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,050,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Curb Installation**  
 Department: **Public Works - General Fund**  
 Physical Location: **Various**  
 Federal Mandate: **NO**  
 State Regulation or Law: **NO**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **Policy**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **YES**



### PROJECT DESCRIPTION/JUSTIFICATION

This project provides for the repair and/or replacement of curbing in various locations throughout the City. It includes the installation of bituminous curbing or granite curb as part of City roadway rehabilitation and reconstruction projects. Project construction costs have been set at \$40,000 for curbing plus 10% contingencies, 10% in engineering design, 10% in construction engineering, 1% overhead costs and annual 3% inflation adjustments.

The City will be focusing street rehabilitation rather than reconstruction. This will result in more in-kind repair/replacement of curbing matching what is present. If new curbing is required it is recommended that granite be used in commercial, central business, and high density zones/areas with asphalt or no curbing for medium density, low density and rural residential zones/areas. During FY15 it will be proposed to be amend the City's Street and Utility standards to reflect the above recommendation.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation		47,146	58,177	59,922	61,720	63,571	65,478	356,015
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$47,146</b>	<b>\$58,177</b>	<b>\$59,922</b>	<b>\$61,720</b>	<b>\$63,571</b>	<b>\$65,478</b>	<b>\$356,015</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve								0
Debt Funded		47,146	58,177	59,922	61,720	63,571	65,478	356,015
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$47,146</b>	<b>\$58,177</b>	<b>\$59,922</b>	<b>\$61,720</b>	<b>\$63,571</b>	<b>\$65,478</b>	<b>\$356,015</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **560 Main St. Liquid Disposal Site**  
 Department: **Public Works - General Fund**  
 Physical Location: **560 Main Street**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **Vibrant Economy**  
 CMP Vision/Strategy: **Economic Development**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective:



### PROJECT DESCRIPTION/JUSTIFICATION

From the early 1900's up until about 1976, 560 Main Street was the site of a number of waste disposal activities. An area of approximately 2 acres within the overall 30 acre site was used for the disposal of liquid type materials. This area is know as the Liquid Disposal area and was initially identified and has been under review and monitoring since 1988. The presence of polychlorinated biphenyl compounds (PCBs) and chlorinated solvents in the soil at the liquid disposal area characterizes this area as a hazardous waste site. Work performed in 2012 developed a three (3) dimensional footprint model of the contamination. This project provides funds for professional and technical services to create a remedial action plan (RAP) and for assistance in applying for any available grant funds. The FY15 request includes funds for characterization of the limits and concentration of the soil contamination to reduce the area of contamination lowering the overall cost for remediation.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design		65,000						65,000
Construction/Implementation								0
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$65,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$65,000</b>
<b>FUNDING</b>								
Current Revenue		65,000						\$65,000
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources				0				0
<b>TOTAL</b>	<b>\$0</b>	<b>\$65,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$65,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Re-introduced



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Goose Pond Dam Improvements**  
 Department: **Parks & Recreation**  
 Physical Location: **Goose Pond**  
 Federal Mandate: **NO**  
 State Regulation or Law: **YES, Letters of Deficiencies Received 2008**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Healthy Living**  
 Council Initiative: **Policy**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **YES**



### PROJECT DESCRIPTION/JUSTIFICATION

The City has a number dams classified by the State as "high hazard" indicating that their failure could result in the loss of property and/or life downstream. The 1868 era Goose Pond Dam and associated berms have a classification of "high hazard". High hazard dams are inspected by the State and as a result the City received a Letter of Deficiencies (LOD) from the State of New Hampshire. In FY11, the City completed a Dam Master Plan that addressed the State LOD's. For this impoundment, the City Dam Master Plan addressed the State's concerns related to its inoperable outlet drain and embankments (berm). It is also in the City's interest to further evaluate the dam and berms because it provides a significant recreation benefit to the community.

The project includes funding for additional evaluation, design, and permitting of improvements in FY17. Construction is proposed for FY19. The estimated cost of improvements recommended in the FY11 Dam Master Plan to respond to the LOD, were \$715,000 (2012 cost) and have been adjusted with a 3% per year inflation factor to the date projected for construction.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design				106,389				106,389
Construction/Implementation						879,400		879,400
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$106,389</b>	<b>\$0</b>	<b>\$879,400</b>	<b>\$0</b>	<b>\$985,789</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve								0
Debt Funded				106,389	0	879,400		985,789
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$106,389</b>	<b>\$0</b>	<b>\$879,400</b>	<b>\$0</b>	<b>\$985,789</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Ongoing CIP

## ROAD REHABILITATION LIST

### 2015

Roadway Rehabilitation	EST. COST
Arch Street - (Felt to Chesterfield)	\$ 57,334
Daniels Hill Road	\$ 163,354
Davis Street	\$ 72,007
Depot Road	\$ 16,212
Hurricane Road - Phase 1	\$ 169,258
Key Road	\$ 287,514
Langley Road	\$ 33,008
Ralston Street	\$ 83,708
Swanzy Factory Road	\$ 96,365
Wilcox Terrace	\$ 11,446
Sub Total	\$ 990,208
Contingency - 10%	\$99,021
Construction Totals	\$1,089,229
Design, Const, S&OH	\$10,892
Inflation Factor: 3% / year x 2 yrs	\$66,997
<b>Total Overlay FY15</b>	<b>\$1,167,118</b>

### 2016

Roadway Rehabilitation	EST. COST
Algonquin Road	\$ 45,833
Chesterfield Road North of Rte 9	\$ 170,538
Chesterfield Road- South of Route 9	\$ 85,756
Grimes Road	\$ 33,356
Hurricane Road - Phase 2	\$ 410,246
Stearns Road	\$ 23,018
Wyman Road	\$ 196,576
Sub Total	\$ 965,322
Contingency - 10%	\$96,532
Construction Totals	\$1,061,854
Design, Const, S&OH	\$10,619
Inflation Factor: 3% / year x 3 yrs	\$99,447
<b>Total Overlay FY16</b>	<b>\$1,171,920</b>

### 2017

Roadway Rehabilitation	EST. COST
Crescent Street	\$ 22,677
East Surry Road	\$ 304,731
Meadow Road	\$ 30,729
Mill Road	\$ 8,958
Pearl Street	\$ 172,512
Roxbury Road	\$ 187,056
Wagner Street	\$ 7,983
Water Street (Grove to Roxbury)	\$ 222,003
Wood Street	\$ 26,243
Sub Total	\$ 982,891
Contingency - 10%	\$98,289
Construction Totals	\$1,081,180
Design, Const, S&OH	\$10,812
Inflation Factor: 3% / year x 4 yrs	\$137,055
<b>Total Overlay FY17</b>	<b>\$1,229,047</b>

### 2018

Roadway Rehabilitation	EST. COST
Armory Street (North to end)	\$ 65,657
Baker Street	\$ 116,742
Crossfield Street	\$ 6,772
Dunbar Street	\$ 24,014
Ellis Court (Wright to Woodbury)	\$ 24,449
Gilsum Street (North to end)	\$ 115,886
Harrison Street	\$ 22,007
Jordan Road	\$ 203,947
North Street (Elm to Gilsum)	\$ 44,302
Red Oak Drive	\$ 54,209
Willow Court	\$ 4,002
Willow Street	\$ 33,387
Woodbury Street	\$ 165,632
Wright Street	\$ 27,104
Sub Total	\$ 908,108
Contingency - 10%	\$90,811
Construction Totals	\$998,919
Design, Const, S & OH	\$9,989
Inflation Factor: 3% per year x 5 yrs	\$160,693
<b>Total Overlay FY18</b>	<b>\$1,169,601</b>

### 2019

Roadway Rehabilitation	EST. COST
Arch Street - (Park to Hurricane)	\$ 193,854
Bridge Court	\$ 9,851
Carpenter Street	\$ 42,770
Fowler Street	\$ 23,096
Gunn Road	\$ 188,208
Harmony Lane	\$ 13,352
Kingsbury Street	\$ 19,660
Peg Shop Road	\$ 139,541
Perham Street	\$ 10,874
Richardson Court	\$ 10,666
River Street	\$ 64,944
Sullivan Road (Rte 9 to town line)	\$ 86,638
Valley Street	\$ 47,048
Village Drive	\$ 54,486
Woodburn Street	\$ 27,104
Sub Total	\$ 932,093
Contingency - 10%	\$93,209
Construction Totals	\$1,025,302
Design, Const, S & OH	\$10,253
Inflation Factor: 3% per year x 6 yrs	\$200,952
<b>Total Overlay FY19</b>	<b>\$1,236,507</b>

### 2020

Roadway Rehabilitation	EST. COST
Adams Court	\$ 9,050
Adams Street	\$ 66,497
Avalon Place	\$ 7,804
Concord Road	\$ 228,308
Elliot Street	\$ 28,454
Gates Street	\$ 21,307
Main Street (Rte 101 to Marlborough St)	\$ 273,238
Moore Farm Road	\$ 26,740
No Name Road	\$ 12,981
Park Avenue	\$ 326,212
Proctor Court	\$ 16,238
South Street	\$ 24,372
Sub Total	\$ 1,041,199
Contingency - 10%	\$104,120
Construction Totals	\$1,145,319
Design, Const, S & OH	\$11,453
Inflation Factor: 3% per year x 7 yrs	\$265,912
<b>Total Overlay FY20</b>	<b>\$1,422,684</b>



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Roadway Rehabilitation**  
 Department: **Public Works - General Fund**  
 Physical Location: **City Roadways**  
 Federal Mandate: **NO**  
 State Regulation or Law: **NO**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Maintaining a Safe Community**  
 Council Initiative: **Policy**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Yes**



### PROJECT DESCRIPTION/JUSTIFICATION

The City maintains 126.8 miles of roads of which 125 miles are paved. The City performs biannually a road condition survey with the last one conducted during the spring of 2013. The survey assesses roadway condition and traffic volume. Road conditions evaluated include road/pavement cracking, potholes, delamination of pavement, and roughness. This information is used to develop a score that then ranks roadways from excellent to poor. Roads scheduled for improvements are selected based upon roadway condition, other scheduled infrastructure improvements such as drainage, water, sewer improvements, and grouping of roads in a general area to take advantage of a contractor mobilizing only once to perform work. The proposed road program for FY15-20 CIP cycle focuses on rehabilitation options including mill/shim/overlay and reclaim/pavement. Complete reconstruction of roadways, sidewalks, or curbing and utilities, is not proposed during the FY15-FY20 CIP.

The average costs for road rehabilitation options (in 2013 dollars) are as follows: shim and stone chip seal \$188,000/mile, shim and 1" pavement overlay with adjustment of structures \$265,000/mile, and reclamation and 4" pavement with adjustment of structures \$615,000/mile, road reconstruction (gravels and 5" pavement) not including utilities, curbing, or concrete sidewalk is approximately \$2.15M per mile. Road reconstruction that includes granite curbing and sidewalks, on both sides of a road, is approximately \$3.2M per mile.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation		1,167,118	1,171,920	1,229,047	1,169,601	1,236,507	1,422,684	7,396,877
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$1,167,118</b>	<b>\$1,171,920</b>	<b>\$1,229,047</b>	<b>\$1,169,601</b>	<b>\$1,236,507</b>	<b>\$1,422,684</b>	<b>\$7,396,877</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve								0
Debt Funded		1,167,118	1,171,920	1,229,047	1,169,601	1,236,507	1,422,684	7,396,877
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$1,167,118</b>	<b>\$1,171,920</b>	<b>\$1,229,047</b>	<b>\$1,169,601</b>	<b>\$1,236,507</b>	<b>\$1,422,684</b>	<b>\$7,396,877</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
Ongoing

**PROJECT STATUS:** Ongoing CIP

## Criteria Used to Determine Priority of New Sidewalks

With the challenge of limited resources for new sidewalk construction the Department looked at a way to incorporate ideas of walkability, community generators and attractors to assist in prioritizing new sidewalk request and needs. The following are the community criteria that were identified:

\*\*\*\*\*

**School Walking Zones**

**½ mile**

(Includes public/private elementary, secondary, and post-secondary)

\*\*\*\*\*

**Major Community Generator/Attractor Zone**

**½ mile**

(Includes Daycares/Cultural/Parks/Human Service/Municipal)

\*\*\*\*\*

**Commercial Clusters**

**½ mile**

(Includes Downtown/Key Rd/West St/CVS Plaza/etc.)

\*\*\*\*\*

**Concentrated Housing Developments**

**½ mile**

(Includes Bennett Block/CitySide Housing/Harmony Lane/etc.)

\*\*\*\*\*

Concentric circles were then plotted on a map of the City. The more intersected circles the higher probability of/or potential of pedestrian traffic. An investment in sidewalks in these areas would provide a higher impact. This information would impact the Pedestrian Traffic rating, the more concentric circles the higher the rating.

A matrix was developed with a number of criteria. These criteria were also weighted with higher emphasis on pedestrian traffic and safety. The matrix criteria are as follows:

Factor	Rating		Weight
Pedestrian Factor	1	Low	.30
	3	Medium	
	5	High	
Vehicle Traffic	1	Low/Local	.25
	3	Med/Collector	
	5	High/Arterial	
Existing Sidewalk	1	Yes	.15
	3	Partial	
	5	No	
Increase Safety	1	Low	.30
	3	Med	
	5	High	

### New Sidewalk Project List

LOCATION	PED TRAFFIC	VEHICLE TRAFFIC	EXISTING WALK ON STREET	INCREASE SAFETY	TOTAL	LENGTH	FISCAL YEAR	TOTAL COST				
EMERALD ST	5	2	5	1.3	3	0.5	3	1	4.1	1,300	17	\$231,449
NORTH LINCOLN ST - Beaver St to George St.	3	1	3	0.8	5	0.8	5	2	3.9	2,100		\$245,544
WEST SURRY RD - Route 12A	1	0	5	1.3	5	0.8	5	2	3.8	2,708		\$0
BRADFORD RD	1	0	3	0.8	5	0.8	5	2	3.3	3,400		\$0
PAKO AVE	3	1	3	0.8	5	0.8	3	1	3.3	3,520		\$0
PAKO AVE	3	1	3	0.8	5	0.8	3	1	3.3	2,370		\$0
ROXBURY ST. - Reservoir St. to Water St.	3	1	3	0.8	5	0.8	3	1	3.3	900		\$0
BLOSSOM ST. - Robbins Rd to West St	3	1	3	0.8	3	0.5	3	1	3	1,900		\$354,033
RIVER ST - North of Mayflower	4	1	1	0.3	3	0.5	3	1	2.8	500		\$0
AMERICAN AVE - Kennedy Dr. to Old Walpole Rd.	3	1	1	0.3	5	0.8	3	1	2.8	1,400		\$0
ROYAL AVE	3	1	1	0.3	5	0.8	3	1	2.8	1,400		\$0
WOODBURN ST - Portland to Linden St.	3	1	1	0.3	5	0.8	3	1	2.8	450		\$0
WAKEFIELD ST	3	1	1	0.3	5	0.8	3	1	2.8	750		\$0
PERHAM ST	3	1	1	0.3	5	0.8	3	1	2.8	300		\$0
PORTLAND ST	3	1	1	0.3	3	0.5	3	1	2.5	600		\$0
ROBBINS RD	3	1	1	0.3	3	0.5	3	1	2.5	730		\$122,495
KENDALL RD	1	0	1	0.3	5	0.8	3	1	2.2	1,700		\$0
HARRISON ST	5	2	1	0.3	1	0.2	1	0	2.2	700		\$0
WOODBURY ST	3	1	1	0.3	3	0.5	1	0	1.9	1,600		\$0
										<b>TOTAL</b>		<b>\$722,072</b>

Factor	Weight
Pedestrian Traffic	30%
Vehicle Traffic	25%
Existing Sidewalk	15%
Increase Safety	30%

**Notes:**

Sidewalks listed for construction beyond FY15 are projected using FY15 dollars plus 3%

\*\*South Street has other work being done so that moved it up the list.

# NEW SIDEWALK LIST

## 2015

LOCATION	LENGTH	TYPE WORK	EST. COST
Subtotal			\$0
Construction Contingency: 10%			<u>\$0</u>
Construction Totals			<u>\$0</u>
Design: 5%			\$0
Construction Administration: 10%			\$0
SUPV. & Overhead: 1%			<u>\$0</u>
Project Total			<u>\$0</u>
Inflation Factor: 3% / yr x 3 yrs			<u>\$0</u>
<b>Total Sidewalks</b>			<b><u>\$0</u></b>

## 2016

LOCATION	LENGTH	TYPE WORK	EST. COST
Subtotal			\$0
Construction Contingency: 10%			<u>\$0</u>
Construction Totals			<u>\$0</u>
Design: 10%			\$0
Construction Administration: 10%			\$0
SUPV. & Overhead: 1%			<u>\$0</u>
Project Total			<u>\$0</u>
Inflation Factor: 3% / yr x 4 yrs			<u>\$0</u>
<b>Total Sidewalks</b>			<b><u>\$0</u></b>

## 2017

LOCATION	LENGTH	TYPE WORK	EST. COST
<b>Emerald Street</b>	1,000	New	\$154,500
Subtotal			\$154,500
Construction Contingency: 10%			<u>\$15,450</u>
Construction Totals			<u>\$169,950</u>
Design: 10%			\$16,995
Construction Administration: 10%			\$16,995
SUPV. & Overhead: 1%			<u>\$1,700</u>
Project Total			<u>\$205,640</u>
Inflation Factor: 3% / yr x 5 yrs			<u>\$25,810</u>
<b>Total Sidewalks</b>			<b><u>\$231,449</u></b>

## 2018

LOCATION	LENGTH	TYPE WORK	EST. COST
Subtotal			\$0
Construction Contingency: 10%			<u>\$0</u>
Construction Totals			<u>\$0</u>
Design: 10%			\$0
Construction Administration: 10%			\$0
SUPV. & Overhead: 1%			<u>\$0</u>
Project Total			<u>\$0</u>
Inflation Factor: 3% / yr x 5 yrs			<u>\$0</u>
<b>Total Sidewalks</b>			<b><u>\$0</u></b>

## 2019

LOCATION	LENGTH	TYPE WORK	EST. COST
Subtotal			\$0
Construction Contingency: 10%			<u>\$0</u>
Construction Totals			<u>\$0</u>
Design: 10%			\$0
Construction Administration: 10%			\$0
SUPV. & Overhead: 1%			<u>\$0</u>
Project Total			<u>\$0</u>
Inflation Factor: 3% / yr x 6 yrs			<u>\$0</u>
<b>Total Sidewalks</b>			<b><u>\$0</u></b>

## 2020

LOCATION	LENGTH	TYPE WORK	EST. COST
Subtotal			\$0
Construction Contingency: 10%			<u>\$0</u>
Construction Totals			<u>\$0</u>
Design: 10%			\$0
Construction Administration: 10%			\$0
SUPV. & Overhead: 1%			<u>\$0</u>
Project Total			<u>\$0</u>
Inflation Factor: 3% / yr x 7 yrs			<u>\$0</u>
<b>Total Sidewalks</b>			<b><u>\$0</u></b>



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Sidewalks New**  
 Department: **Public Works - General Fund**  
 Physical Location: **Various**  
 Federal Mandate: **NO**  
 State Regulation or Law: **NO**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Walkable Community**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **YES**



### PROJECT DESCRIPTION/JUSTIFICATION

This project provides funding for new sidewalk construction in various locations throughout the City. New sidewalks have been identified over the years and placed on a list. The list for new sidewalks exceeds available resources. In 2012, the Public Works Department working with the Planning Department, developed a set of criteria to use in reviewing new sidewalk request and the current list. Based upon the application of that criteria, the Emerald Street sidewalk scored the highest (greatest priority) has been programmed for FY17.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation				231,449				231,449
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$231,449</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$231,449</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve								0
Debt Funded				231,449				231,449
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$231,449</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$231,449</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Sidewalk Repair & Replacement**  
 Department: **Public Works - General Fund**  
 Physical Location: **Various**  
 Federal Mandate: **NO**  
 State Regulation or Law: **NO**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Walkable Community**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **YES**



### PROJECT DESCRIPTION/JUSTIFICATION

The City has over 274,000 lineal feet of sidewalk in varying degrees of condition. In 2005 the Public Works Department performed a sidewalk condition survey. Sidewalk condition ranked from a high of 21 to a low of 0. The higher the score, the worse the sidewalk condition based on certain criteria such as drainage, cracking, roughness, etc. Since 2005 approximately 69,000 lineal feet of sidewalk has been repaired or replaced. Approximately 122,000 lineal feet of sidewalk ranked higher than a condition of 9 remains on the 2005 list for repair and maintenance. This information, in addition to the coordination of other infrastructure work, is used to prioritize where and when sidewalks are repaired. This project provides funds for the repair and or replacement of sidewalks (\$40,000 a year in 2013 dollars) in various locations throughout the City. Funding requested includes 10% contingency, 10% engineering design, 10% construction engineering, 1% overhead costs, and annual 3% inflation adjustments.

For repair projects, concrete sidewalks will be installed where there are existing concrete sidewalks and asphalt sidewalks will be installed where there are existing asphalt sidewalks. Projects will include milling the existing asphalt and providing an asphalt overlay or a complete replacement of the concrete sidewalk. Based on a 2013 unit price of \$40 per linear foot for concrete sidewalks and \$12.50 per linear foot for asphalt sidewalk repairs, it is estimated that the proposed \$40,000 in annual sidewalk repairs could complete approximately 1,000 LF of concrete sidewalk or 3,200 LF of bituminous paved sidewalks.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation		47,146	58,177	59,922	61,720	63,571	65,478	356,015
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$47,146</b>	<b>\$58,177</b>	<b>\$59,922</b>	<b>\$61,720</b>	<b>\$63,571</b>	<b>\$65,478</b>	<b>\$356,015</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve								0
Debt Funded		47,146	58,177	59,922	61,720	63,571	65,478	356,015
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$47,146</b>	<b>\$58,177</b>	<b>\$59,922</b>	<b>\$61,720</b>	<b>\$63,571</b>	<b>\$65,478</b>	<b>\$356,015</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Ongoing CIP

**KEENE/SWANZEY BY-PASS IMPROVEMENT PROGRAM SCHEDULE**

During the FY 2012 and 2013 State Budgeting process significant funding was cut from the State's Transportation budget. As a result New Hampshire Department of Transportation has made significant changes to the State's Ten Year Transportation Improvement Plan (TIP) 2013 - 2022. The State does not forecast any significant increase of Federal highway funds. It has continued to maintain tight fiscal control on the proposed highway spending. In the State's September 5, 2013 draft of the 2015-2024 Ten Year Transportation Improvement Program, the City has two highway projects and one bridge project proposed for funding.

Description		Previous Program Yr	Amount (\$000)	Program Year (FY)
Interim Intersection Improvements at T-Intersection and Construction of floodplain and wetland mitigation – Keene Swanzey 10309-J-5705	C	2009	\$ 2,200	Eliminated from program in the 2013-2022 TIP Plan.
Interim Improvement Widening of NH 101 and Replacement of Ashuelot River Bridge – Keene-Swanzey 10309 L-5707	C	2017	\$ 2,947	Eliminated from program in the 2013-2022 TIP Plan.
	C	2015	\$ 2,310	
Construct Multi-Use Trail Bridge over NH 12/101 10309 P-6189	C	2010	\$ 4,299	2021
Winchester Street Reconstruction from NH Rt 101 Roundabout to Pearl St/Island St Intersection including the Key Rd intersection - Keene 10309 B (1828) and the replacement of the Island Street Bridge. This is a Local Public Agency project and requires a 20% match.	P	2013	\$ 261.8	2013
	C	2014 - 2015	\$ 5,296	2017-2018
	R	2014	\$ 368.5	2014
Interim Intersection Improvements @ NH 12 (Main Street) 7443	P	2016	\$ 200	Eliminated from program in the 2013-2022 TIP Plan.
	R	2016	\$ 50	
	C	2020	\$ 2,500	

Phase: C = Construction P = Preliminary Engineering R = Right of Way

In 2008, the State eliminated the following six (6) projects from the Ten Year Plan:

- 1) Interim Intersection Improvements at NH 12/101 and Main St, Keene-Swanzey 10309 K-5706
- 2) Construction of Interchange along with East and West Bound Ramps at Winchester Street, Keene-Swanzey 10309 D-2066
- 3) Reconstruction SPDI Main Line and Trumpet Interchange, Keene-Swanzey 10309 F-2068
- 4) Reconstruct NH 9/10/12 Interchange at West St, Keene-Swanzey 10309 G-2280
- 5) NH 32 By-Pass to NH 101/Optical Avenue, Keene-Swanzey 1309 C-1829
- 6) Reconstruct Intersection NH 12 and Main St – Keene-Swanzey 10309 E-2067



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **State Bypass Improvement Program**  
 Department: **Public Works - General Fund**  
 Physical Location: **Various**  
 Federal Mandate: **NO**  
 State Regulation or Law: **NO**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Transportation**  
 Council Initiative: **Resolution**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Yes**



### PROJECT DESCRIPTION/JUSTIFICATION

The State's FY 2012/2013 budget was significantly reduced from previous years funding levels. In response to the budget reduction, the Department of Transportation has submitted a revised Ten Year Transportation Improvement Plan (TIP) for 2013-2022. The Winchester Street Reconstruction Project (10309B) running from the Rt 101 Roundabout to the Island Street/Pearl Street intersection, including the Key Road intersection and Island Street Bridge replacement, construction phase was moved from FY14/15 to FY17/18. The construction of the Multi-Use Bridge over Rt 101 (10309 P) has been moved from FY13 to FY21. Several planned projects have been removed completely from the 10 Year Plan including interim intersection improvements at NH 12/101 (7443), interim intersection Improvements at NH 9/10/12/101 (10309 J), and interim widening with replacement of Ashuelot River Bridge (10309 L).

In the State's September 5, 2013 proposed 2015-2024 TIP, the Winchester Street Reconstruction and Rt 101 Multi-Use Trail Bridge remain within the program. The Winchester Street Reconstruction Project is a Local Public Agency Project and has a 20% local match. Funding for the construction portion of the local match is programed for FY17 and FY18. The City allocated design funds to support design of this project in both FY13 and FY14.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design	630,300							630,300
Construction/Implementation				2,830,000	2,466,000			5,296,000
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$630,300</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,830,000</b>	<b>\$2,466,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$5,926,300</b>
<b>FUNDING</b>								
Current Revenue	126,060							\$126,060
Capital Reserve								0
Debt Funded				566,000	493,200			1,059,200
Federal or State Grants	504,240			2,264,000	1,972,800			4,741,040
Other Sources								0
<b>TOTAL</b>	<b>\$630,300</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,830,000</b>	<b>\$2,466,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$5,926,300</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Ongoing CIP

## Stormwater Management

The City of Keene sits on the valley floor at the bottom of a glacial lakebed. There are five (5) watersheds and numerous brooks and streams that flow through the City. These bodies of water are used by the community to receive stormwater from City streets and private properties. As the City developed, open ditches were first constructed to convey this stormwater. Over time these open ditches were enclosed and additional receptors and pipes were installed creating a complex network of pipes and open ditches that merge with streams to move stormwater through the City. The community has modified waterways to improve the drainage characteristics of streams to allow for additional use and development of land. Over the last 10 years, the City and State of New Hampshire have been subject to changing weather patterns. Intense wet weather events are occurring at higher frequency with higher amounts of precipitation. This has stressed the City's 150+ year old stormwater system.

The City outlined a multi-prong strategy with both short term and long term actions. Types of short term actions identified included continuing maintenance of the stormwater system, evaluation of and implementation of small improvements, and the identification and implementation of flood storage and mitigation projects. Long term actions included watershed wide analysis, identification of large storage and mitigation projects and the engagement of other partners and State and Federal agencies. The following series of projects implement short term actions while continuing to move forward with long term actions to address stormwater management concerns.

Storm Drain Cleaning and Inspection. Adequate maintenance is critical to ensure that the existing enclosed stormwater system is properly working. This project will perform maintenance cleaning and inspection of catch basins and lines. The removal of sediments will restore the capacity of the collection system reducing the effects of smaller events. If problems are encountered while cleaning a line, this project provides funds to televise the area to determine what is causing the blockage so a repair strategy can be developed. It is proposed that in FY20 this program be moved into the operating budget and become part of the routine maintenance performed by the Public Works Department.

Storm Drainage Spot Repairs. This is a companion project to the cleaning and inspection work described above. The project provides the funding to perform spot repairs to the stormwater system while also addressing blockages and failures to ensure the system is working at its capacity.

Stormwater System Management Analysis and Minor Improvements. This project provides funding to perform hydrologic and hydraulic analysis of the various watersheds and parts of the stormwater system. The analysis will update existing data and use this information to identify potential mitigation projects. Another component of this project is the support of technical resources to review areas of street flooding (Roxbury and Guernsey Streets, Church and Carpenter Streets, Winchester and Ralston Streets, etc.) to determine if there are low impact/cost changes or improvements that may be accomplished to relieve flooding.



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Storm Drainage Maintenance**  
 Department: **Public Works - General Fund**  
 Physical Location: **Various**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **N/A**  
 Departmental Objective: **Maintain transportation network, manage stormwater to reduce potential for flooding.**



### PROJECT DESCRIPTION/JUSTIFICATION

The capturing, removal, and treatment of storm water is critical to maintaining the condition of the City's streets and other impervious systems. The Highway Division is planning for an ongoing drain cleaning program. The daily average for cleaning catch basin sumps (using a private contractor) is 25 per day at the rate of \$90/hour (in 2013 dollars), totaling \$720/day. This four year program will maintain the 5,000 basins located in the City. The project, started in summer/fall of 2012 in the City center which has traditionally been an area prone to flooding, and will proceed outward cleaning approximately 1,250 catch basin sumps. The cost has been inflated 3% per year.

The drain cleaning program will add drain cleaning/flushing to the storm drain maintenance program. Funding is requested for camera inspection and drain line cleaning/flushing on the City's 80 mile network of drain lines. An average of 1,500 feet of drain line can be cleaned in a day equaling \$763 per day (in 2013 dollars). Funding is requested at levels to allow approximately 16 miles of drain lines to be cleaned each year resulting in all drain lines being cleaned in approximately 5 years. In addition, approximately 5,000 lineal feet of drain line per year will be inspected via underground camera to identify areas where blockages are backing up the system or to identify areas needing spot repair. Once lines and catch basins have been cleaned and inspected, a program will be developed and recommended for implementation that will keep the system operating at its designed capacity.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Inspection		15,000	15,450	15,914	16,390	16,883		79,637
Construction/Implementation	83,636	86,681	89,281	45,589	46,957	48,365		400,509
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$83,636</b>	<b>\$101,681</b>	<b>\$104,731</b>	<b>\$61,503</b>	<b>\$63,347</b>	<b>\$65,248</b>	<b>\$0</b>	<b>\$480,146</b>
<b>FUNDING</b>								
Current Revenue	83,636	101,681	104,731	61,503	63,347	65,248		\$480,146
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$83,636</b>	<b>\$101,681</b>	<b>\$104,731</b>	<b>\$61,503</b>	<b>\$63,347</b>	<b>\$65,248</b>	<b>\$0</b>	<b>\$480,146</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Minimal \$5,001 to \$50,000 Ongoing      **PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE 2015 - 2020 Capital Project Funding Request

## GENERAL PROJECT DATA

Project Name: **Stormwater Spot Repairs**  
 Department: **Public Works - General Fund**  
 Physical Location: **Various**  
 Federal Mandate: **NO**  
 State Regulation or Law: **NO**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **Policy**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **YES**



## PROJECT DESCRIPTION/JUSTIFICATION

The capturing, removal, and treatment of storm water is critical to maintaining the condition of the City's streets and other impervious systems. The City maintains over 80 miles of storm drains and over 5,000 catch basins. This project sets aside funding (\$40,000 per year in 2013 dollars) for spot repairs to the stormwater system. This includes removing blockages and failures to ensure the system works at capacity. This project's costs includes 10% contingency, 10% in engineering design, 10% in construction engineering, 1% overhead cost and an annual 3% inflation adjustment. It is part of a multi-pronged approach to sustaining the City's stormwater drainage system and is a companion to the Storm Drainage Cleaning and Inspection Program.

## FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation		47,146	58,177	59,922	61,720	63,571	65,478	356,015
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$47,146</b>	<b>\$58,177</b>	<b>\$59,922</b>	<b>\$61,720</b>	<b>\$63,571</b>	<b>\$65,478</b>	<b>\$356,015</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve								0
Debt Funded		47,146	58,177	59,922	61,720	63,571	65,478	356,015
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$47,146</b>	<b>\$58,177</b>	<b>\$59,922</b>	<b>\$61,720</b>	<b>\$63,571</b>	<b>\$65,478</b>	<b>\$356,015</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Re-introduced



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

**Project Name:** Stormwater System Management Analysis and Minor Improvements  
**Department:** Public Works - General Fund  
**Physical Location:** Various  
**Federal Mandate:** N/A  
**State Regulation or Law:** N/A  
**Master Plan (CMP) Focus Area:** Quality Built Environment  
**CMP Vision/Strategy:** Infrastructure  
**Council Initiative:** N/A  
**V.O.I.C.E.:** Continually Assess Facilities and Infrastructure  
**Departmental Objective:** Yes



### PROJECT DESCRIPTION/JUSTIFICATION

This project provides funding to perform hydraulic analysis of the various watersheds within the City of Keene. The analysis will update existing data providing information to assist with identifying potential mitigation projects. It is proposed to start with the Beaver Brook watershed. A component is to review areas that are prone to street flooding (Roxbury and Gurnsey Streets, Church and Carpenter Streets, Winchester and Ralston Streets, etc.) to determine if there are low impact, low cost changes or improvements that can be completed to relieve the flooding. The intent is to direct these funds to the Flood Management Project Account.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design		50,000	50,000	50,000	50,000	50,000	50,000	300,000
Construction/Implementation								0
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$300,000</b>
<b>FUNDING</b>								
Current Revenue		50,000	50,000	50,000	50,000	50,000	50,000	\$300,000
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$300,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** New Project



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **City Wide Stream Inventory**  
 Department: **Public Works - General Fund**  
 Physical Location: **Various**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **Wetland Permit #2013-00434**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Green Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Establish Priorities**  
 Departmental Objective: **YES**



### PROJECT DESCRIPTION/JUSTIFICATION

A number of rivers and streams (Ashuelot River, Ash Swamp Brook, Beaver Brook, Black Brook, Tannery Brook, etc.) flow through the City. While providing a unique natural character to the City, these streams act as conduits for stormwater. Many of these bodies of water have been modified over time to accept and efficiently move stormwater. Over the years, questions have been raised on the type and level of maintenance of these bodies of water. With the State's approval of Wetlands Permit No 2013-00434, for the Beaver Brook Sediment Removal and Bank Stabilization Project, wetlands mitigation requirements were established. The City is required to perform a stream inventory and review. The inventory will identify the purpose the water body performs, modifications that have been made, and the maintenance activities that are required to maintain the purpose. The final product of this review will include written maintenance policies, procedures, and a public outreach program. The issued permit established the following timeline for this effort: January 1, 2014 submission of an outline and scope of the water body inventory and review; January 1, 2015 submission of identified water bodies to be reviewed; January 1, 2016 submission of completed inventory and review; July 1, 2016 submission of draft written policies, and January 1, 2017 submission and implementation of final policies and procedures. This project provides technical assistance funding for the Public Works Engineering Division to assist in this evaluation, development of maintenance guidance, and a public out reach program.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design		25,000						25,000
Construction/Implementation								0
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$25,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$25,000</b>
<b>FUNDING</b>								
Current Revenue		25,000						\$25,000
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$25,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$25,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Minimal \$5,001 to \$50,000  
Multi-year

**PROJECT STATUS:** New Project



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Three Mile Dam Improvements**  
 Department: **Public Works - General Fund**  
 Physical Location: **Three Mile Dam - Rte. 10**  
 Federal Mandate: **YES**  
 State Regulation or Law: **YES**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Community Sustainability**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **YES**



### PROJECT DESCRIPTION/JUSTIFICATION

The 3-Mile dam was constructed by the Department of the Army Corp of Engineers in 1985 as part of the Federal Flood Damage Reduction System. Upon completion of the work, the improvements (dam and associated reservoir) were turned over to the City. The City is responsible for performing repair and maintaining the structure and associated reservoir area as required by the NH State Dam Bureau in consultation with the Army Corps of Engineers. There is evidence of concrete spalling and deterioration that will require repairs. Approximately 50 areas, that are 10 square feet in size, on the downstream face of the overflow spillway are showing deterioration. Repair will control the deterioration of the concrete surface and keep the dam in an overall good condition. This dam structure is a component of the infrastructure that reduces the potential for flooding in Keene along the Beaver Brook. The funding source anticipated for this maintenance work is uncommitted Robin Hood Dam Upgrade project funds.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design		5,000						5,000
Construction/Implementation		54,500						54,500
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$59,500</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$59,500</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve								0
Debt Funded	59,500							59,500
Federal or State Grants								0
Other Sources		0						0
<b>TOTAL</b>	<b>\$59,500</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$59,500</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** New Project

**CITY OF KEENE, NEW HAMPSHIRE  
CAPITAL IMPROVEMENT PROGRAM FY15 - FY20  
PARKING FUND MULTI-YEAR PROJECTIONS**

	ACTUAL FY11/12	ACTUAL FY12/13	BUDGET FY13/14	PROJECTED FY14/15	PROJECTED FY15/16	PROJECTED FY16/17	PROJECTED FY17/18	PROJECTED FY18/19	PROJECTED FY19/20
<b>REVENUES</b>									
Taxes	\$468,692	\$916,849	\$840,877	\$789,306	\$868,020	\$855,923	\$843,450	\$658,790	\$645,405
Parking Meter Fees / Space Rentals	569,720	553,775	561,392	559,675	594,070	600,707	637,954	645,418	685,801
Fines & Forfeits	252,043	315,113	279,026	282,454	287,560	292,758	298,051	303,440	308,927
Miscellaneous	14,340	14,744	13,259	14,959	15,178	15,401	15,628	15,860	16,096
Capital reserve / Project Balances			672,000	90,000	55,976		50,000		
Use of (Addition to) surplus			94,549	45,000	45,000	45,000	45,000	45,000	45,000
State courthouse payment									
Bond issue									
<b>TOTAL REVENUES</b>	\$1,304,794	\$1,800,481	\$2,461,103	1,781,394	\$1,865,804	\$1,809,788	\$1,890,083	\$1,668,508	\$1,701,229
<b>EXPENDITURES</b>									
Lots & Meters	\$566,200	\$586,843	\$654,900	\$651,818	\$670,395	\$689,501	\$709,152	\$729,363	\$750,150
Outside Services	154,779	176,799	188,548	\$179,579	183,619	187,751	191,975	196,294	200,711
City Hall Parking Facility	9,597	9,931	22,605	\$17,290	17,463	17,638	17,814	17,992	18,172
Wells Street Parking Facility	17,463	31,782	32,174	\$24,918	25,603	26,307	27,031	27,774	28,538
Capital	423,544	461,568	822,000	269,090	205,976	230,209	200,000	174,014	150,000
Debt Service-TAX INC. FIN. New	205,831	617,725	740,877	13,300	101,270	98,610	95,950	93,290	90,630
Debt Service-TAX INC. FIN. <i>existing</i>				721,006	711,750	702,313	692,500	510,500	499,775
<b>TOTAL EXPENDITURES</b>	\$1,377,414	\$1,884,648	\$2,461,103	\$1,877,001	\$1,916,076	\$1,952,329	\$1,934,422	\$1,749,227	\$1,737,976
<b>Addition to (use of) Surplus</b>	(\$72,620)	(\$84,168)	\$0	(\$95,607)	(\$50,272)	(\$142,540)	(\$44,339)	(\$80,719)	(\$36,747)
<b>CAPITAL &amp; DEBT AS % OF BUDGET</b>			<b>63.5%</b>	<b>53.5%</b>	<b>53.2%</b>	<b>52.8%</b>	<b>51.1%</b>	<b>44.5%</b>	<b>42.6%</b>
<b>PARKING FUND INCREASE</b>				<b>-23.7%</b>	<b>2.08%</b>	<b>1.89%</b>	<b>-0.92%</b>	<b>-9.57%</b>	<b>-0.64%</b>
<b>Projected cash balance at year end</b>			<b>597,476</b>	<b>501,868</b>	<b>451,597</b>	<b>309,056</b>	<b>264,717</b>	<b>183,998</b>	<b>147,251</b>
<b>Projected cash balance as a % of operating budget (total-capital and debt service)</b>				57.45%	50.34%	33.55%	27.98%	18.94%	14.76%

Note 1: Parking Meter Fees and Space Rentals: 5% rate increases in FY 16, 18, and 20 are included in these projections for planning purposes. Parking staff are developing operational and fee change proposals for City Council consideration at a later date. Parking meter rates were last increased in August, 2001 (FY 2002), and reserved parking space rates were last increased in August, 2009 (FY 2010).

## CITY OF KEENE, NEW HAMPSHIRE

### Parking Fund 2015 - 2020 Capital Improvement Program Summary

<u>Dept.</u>	<u>Project Name</u>	<u>2014/2015</u>	<u>2015/2016</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>TOTAL</u>
Public Works	Capital Reserve - City Hall Parking Facility	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 150,000
Public Works	Capital Reserve - Downtown Improvements	100,000	100,000	100,000	100,000	100,000	100,000	600,000
Public Works	Capital Reserve - Wells Street Parking Facility	25,000	25,000	25,000	25,000	25,000	25,000	150,000
Public Works	Parking Structure Maintenance	20,000	55,976	-	50,000	-	-	125,976
Public Works	Surface Parking Lot Maintenance	99,090	-	80,209	-	24,014	-	203,313
Public Works	Wells St TIF District Improvements	-	-	-	-	-	-	-
<b>TOTAL CAPITAL PROGRAM</b>		<b>\$ 269,090</b>	<b>\$ 205,976</b>	<b>\$ 230,209</b>	<b>\$ 200,000</b>	<b>\$ 174,014</b>	<b>\$ 150,000</b>	<b>\$ 1,229,289</b>

#### PROJECT FUNDING DETAIL

##### Reserve Funded Projects

Public Works	Wells St TIF District Improvements	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Public Works	Parking Structure Maintenance	15,000	-	-	50,000	-	-	65,000
<b>Total: Reserve Funded Projects</b>		<b>\$ 15,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 50,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 65,000</b>

##### Projects Funded with Debt

Public Works	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total: Projects Funded with Debt</b>		<b>\$ -</b>						

##### Capital Reserve Appropriations

Public Works	Capital Reserve - City Hall Parking Facility	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 150,000
Public Works	Capital Reserve - Downtown Improvements	100,000	100,000	100,000	100,000	100,000	100,000	600,000
Public Works	Capital Reserve - Wells Street Parking Facility	25,000	25,000	25,000	25,000	25,000	25,000	150,000
<b>Total: Capital Reserve Appropriations</b>		<b>\$ 150,000</b>	<b>\$ 900,000</b>					

##### Projects Funded with Cash

Public Works	Parking Structure Maintenance	\$ 5,000	\$ 55,976	\$ -	\$ -	\$ -	\$ -	\$ 60,976
Public Works	Surface Parking Lot Maintenance	99,090	-	80,209	-	24,014	-	203,313
<b>Total: Projects Funded with Cash</b>		<b>\$ 104,090</b>	<b>\$ 55,976</b>	<b>\$ 80,209</b>	<b>\$ -</b>	<b>\$ 24,014</b>	<b>\$ -</b>	<b>\$ 264,289</b>

##### **Subtotal: Uses of Cash**

(Capital Reserve Appropriations plus Projects Funded with Cash)

<b>Subtotal: Uses of Cash</b>	<b>\$ 254,090</b>	<b>\$ 205,976</b>	<b>\$ 230,209</b>	<b>\$ 150,000</b>	<b>\$ 174,014</b>	<b>\$ 150,000</b>	<b>\$ 1,164,289</b>
<b>TOTAL CAPITAL PROGRAM</b>	<b>\$ 269,090</b>	<b>\$ 205,976</b>	<b>\$ 230,209</b>	<b>\$ 200,000</b>	<b>\$ 174,014</b>	<b>\$ 150,000</b>	<b>\$ 1,229,289</b>

##### New cash Requirement FY 15-20: reconciliation

Total: Uses of cash	\$254,090	\$205,976	\$230,209	\$150,000	\$174,014	\$150,000	\$1,164,289
Wells St Deck Maintenance (FROM 90041)	(5,000)	(55,976)					(60,976)
Commercial St Lot Maintenance (FROM 90224)	(70,000)	-					(70,000)
<b>New Funds needed</b>	<b>\$ 179,090</b>	<b>\$ 150,000</b>	<b>\$ 230,209</b>	<b>\$ 150,000</b>	<b>\$174,014</b>	<b>\$150,000</b>	<b>\$1,033,313</b>

**Parking Fund 2015 - 2020 Capital Improvement Program Debt Summary**

	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
Existing and Authorized Debt	\$5,830,000	\$5,235,000	\$4,559,000	\$3,878,000	\$3,192,000	\$2,671,000
New Issues Proposed	-	-	-	-	-	-
Principal Paid	(595,000)	(676,000)	(681,000)	(686,000)	(521,000)	(521,000)
<b>Total Existing Debt &amp; Issues Proposed</b>	<b>\$5,235,000</b>	<b>\$4,559,000</b>	<b>\$3,878,000</b>	<b>\$3,192,000</b>	<b>\$2,671,000</b>	<b>\$2,150,000</b>

	<b>Issue</b>	<b>Term</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>
<b>Existing &amp; Authorized Debt Service (P &amp; I)</b>			\$734,306	\$813,020	\$800,923	\$788,450	\$603,790	\$590,405
<b><u>Proposed Debt Service CIP FY15</u></b>								
N/A								
<b><u>Proposed Debt Service CIP FY16</u></b>								
N/A								
<b><u>Proposed Debt Service CIP FY17</u></b>								
N/A								
<b><u>Proposed Debt Service CIP FY18</u></b>								
N/A								
<b><u>Proposed Debt Service CIP FY19</u></b>								
N/A								
<b><u>Proposed Debt Service CIP FY20</u></b>								
N/A								
<b>Total CIP15-20 Debt Service Proposed</b>			0	0	0	0	0	0
<b>Total Projected Debt Service: Parking Fund</b>			\$734,306	\$813,020	\$800,923	\$788,450	\$603,790	\$590,405



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Parking Facility Captial Reserve**  
 Department: **Public Works - Parking Fund**  
 Physical Location: **Various**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **N/A**  
 Departmental Objective: **YES**



### PROJECT DESCRIPTION/JUSTIFICATION

This project request worksheet details funding for the existing capital reserve funds established within the Parking Fund. Capital Reserve funding in the amount of \$25,000 annually for the Wells Street Parking Facility and \$25,000 annually for the City Hall Parking Facility is scheduled. In addition, annual contributions of \$100,000 supporting the Downtown Infrastructure Capital Reserve are included. Information regarding expenditures scheduled below, to be funded through these capital reserve accounts, are provided on the project request worksheet for parking structure maintenance. Additional expenditures from the Downtown Infrastructure are not currently scheduled.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation		15,000			50,000			65,000
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$15,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$50,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$65,000</b>
<b>FUNDING</b>								
Current Revenue	509,426	150,000	150,000	150,000	150,000	150,000	150,000	\$1,409,426
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources		1,649	1,990	2,370	2,751	3,008	3,390	15,158
<b>TOTAL</b>	<b>\$509,426</b>	<b>\$151,649</b>	<b>\$151,990</b>	<b>\$152,370</b>	<b>\$152,751</b>	<b>\$153,008</b>	<b>\$153,390</b>	<b>\$1,424,584</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Parking Structure Maintenance**  
 Department: **Public Works - Parking Fund**  
 Physical Location: **Various**  
 Federal Mandate: **No**  
 State Regulation or Law: **No**  
 Master Plan (CMP) Focus Area: **Vibrant Economy**  
 CMP Vision/Strategy: **Vibrant Downtown**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Investing maintenance funds in City parking facilities.**



### PROJECT DESCRIPTION/JUSTIFICATION

Using a variety of repair and maintenance techniques best suited for the specific situation, provide nonroutine maintenance to extend the life of the parking structures owned by the City of Keene, including Wells St. parking deck and City Hall parking deck. Wells Street parking deck maintenance is scheduled for FY 16 and will include protective resurfacing. Protective painting will be completed in both parking structures in FY 15 (Approximately \$15,000 for painting structural steel on the City Hall parking deck, \$5,000 for painting on the Wells Street parking deck). A variety of maintenance items are anticipated for the City Hall parking deck in FY 18. The scope of work, depending on the condition of the parking facility, may include any or all of the following: protective resurfacing, crack repair, and joint repairs. Experience has demonstrated that capital expenditures beyond normal yearly expenditures are required approximately every five years for each parking structure to maintain the structures in good condition. Parking facilities are continually assessed and adjustments to maintenance requirements are reflected in the capital budget. The operating budget also includes funds for minor maintenance and repair needs for parking structures.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation		20,000	55,976		50,000			125,976
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$20,000</b>	<b>\$55,976</b>	<b>\$0</b>	<b>\$50,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$125,976</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve		15,000			50,000			65,000
Debt Funded	60,976							60,976
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$60,976</b>	<b>\$15,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$50,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$125,976</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Surface Parking Lot Maintenance**  
 Department: **Public Works - Parking Fund**  
 Physical Location: **Various**  
 Federal Mandate: **No**  
 State Regulation or Law: **No**  
 Master Plan (CMP) Focus Area: **Vibrant Economy**  
 CMP Vision/Strategy: **Vibrant Downtown**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Investing maintenance funds in City parking facilities.**



### PROJECT DESCRIPTION/JUSTIFICATION

Using a variety of repair and maintenance techniques best suited for the specific situation provides nonroutine maintenance to extend the life of the parking facilities owned by the City of Keene, including Gilbo Avenue (East & West), Wells Street, Commercial Street, and Library Annex surface lots. Commercial Street surface lot maintenance is scheduled for FY 15 (mill, shim, overlay, pavement markings). Gilbo East surface lot maintenance is scheduled for FY 17 (mill, shim, overlay, pavement markings), Commercial Street surface lot maintenance is also scheduled for FY 17 (pavement sealing, pavement markings), as is the Gilbo West surface lot (crack sealing). Wells Street surface lot is scheduled for FY 19 (mill, shim, overlay), as are the Gilbo East surface lot (pavement sealing, pavement markings) and Elm Street surface lot (crack sealing). Experience has demonstrated that beyond minor yearly maintenance the surface lots require some type of capital expenditure every five years to maintain the lots in good condition. The scope of work, depending on the condition of the parking facility, can include any or all of the following: crack sealing, pavement sealing, pavement overlay, and pavement markings. Parking facilities are continually assessed and adjustments to maintenance requirements are reflected in the capital budget.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation		99,090		80,209		24,014		203,313
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$99,090</b>	<b>\$0</b>	<b>\$80,209</b>	<b>\$0</b>	<b>\$24,014</b>	<b>\$0</b>	<b>\$203,313</b>
<b>FUNDING</b>								
Current Revenue	70,000	29,090		80,209		24,014		\$203,313
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$70,000</b>	<b>\$29,090</b>	<b>\$0</b>	<b>\$80,209</b>	<b>\$0</b>	<b>\$24,014</b>	<b>\$0</b>	<b>\$203,313</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Ongoing CIP

**CITY OF KEENE, NEW HAMPSHIRE  
CAPITAL IMPROVEMENT PROGRAM FY15-FY20  
SOLID WASTE FUND MULTI-YEAR PROJECTIONS**

	ACTUAL FY 11/12	ACTUAL FY 12-13	BUDGET FY 13/14	PROJECTED FY 14/15	PROJECTED FY 15/16	PROJECTED FY 16/17	PROJECTED FY 17/18	PROJECTED FY 18/19	PROJECTED FY 19/20
<b>REVENUES</b>									
Charges for Services	\$ 4,984,270	\$ 4,478,066	\$ 4,470,903	\$ 4,682,613	\$ 4,695,198	\$ 4,708,149	\$ 4,721,477	\$ 4,735,193	\$ 4,749,308
Other Financing Sources	69,983	65,698	60,953	58,695	54,180	49,665	45,150	40,635	36,120
Use of Surplus			184,844						
Bond issue					207,828			726,750	
Capital Reserve					34,873	42,351	250,000		
Miscellaneous	6,378	180							
<b>TOTAL REVENUES</b>	<b>\$ 5,060,630</b>	<b>\$ 4,543,943</b>	<b>\$ 4,716,700</b>	<b>\$ 4,741,308</b>	<b>\$ 4,992,079</b>	<b>\$ 4,800,165</b>	<b>\$ 5,016,627</b>	<b>\$ 5,502,578</b>	<b>\$ 4,785,428</b>
<b>EXPENDITURES</b>									
Landfill / Operations	\$ 3,299,201	\$ 3,027,877	\$ 3,083,053	\$ 3,175,950	\$ 3,186,532	\$ 3,194,411	\$ 3,202,508	\$ 3,210,830	\$ 3,219,382
Recycling	463,721	465,703	502,454	484,010	493,523	503,223	513,114	523,200	533,483
Transfer/Recycling Facility	68,309	87,260	99,981	98,755	105,259	112,192	119,581	127,457	185,851
Management/Admin.	522,865	533,870	596,743	562,778	577,702	593,031	608,777	624,949	641,562
Demolition Transfer/Disposal	151,525	148,957	150,255	153,038	155,531	158,065	160,642	163,261	165,924
Landfill Monitoring	38,060	15,172	59,293	45,779	46,694	47,628	48,581	49,553	50,544
Landfill Gas System	123,077	60,299	81,750	62,711	63,965	65,245	66,550	67,881	69,238
Household Hazardous Waste	29,394	22,389	47,861	23,733	24,445	25,178	25,934	26,712	27,513
Debt Service - CURRENT	194,297	184,249	48,310	46,468	44,886	45,820	43,881	27,000	25,875
Debt Service - PROJECTED				0	3,637	36,444	35,405	47,084	124,705
<b>SUBTOTAL</b>	<b>\$ 4,890,449</b>	<b>\$ 4,545,776</b>	<b>\$ 4,669,699</b>	<b>\$ 4,653,221</b>	<b>\$ 4,702,175</b>	<b>\$ 4,781,238</b>	<b>\$ 4,824,971</b>	<b>\$ 4,867,925</b>	<b>\$ 5,044,077</b>
<b>CAPITAL</b>		48,965	47,000	40,000	287,701	87,351	351,000	771,750	45,000
<b>TOTAL EXPENDITURES</b>	<b>\$ 4,890,449</b>	<b>\$ 4,594,741</b>	<b>\$ 4,716,699</b>	<b>\$ 4,693,221</b>	<b>\$ 4,989,876</b>	<b>\$ 4,868,589</b>	<b>\$ 5,175,971</b>	<b>\$ 5,639,675</b>	<b>\$ 5,089,077</b>
<b>NET REVENUE (EXPENSE)</b>	<b>\$ 170,182</b>	<b>\$ (50,798)</b>	<b>\$ 0</b>	<b>\$ 48,087</b>	<b>\$ 2,203</b>	<b>\$ (68,424)</b>	<b>\$ (159,345)</b>	<b>\$ (137,098)</b>	<b>\$ (303,649)</b>
<b>SOLID WASTE FUND INCREASE</b>			<b>-0.25%</b>	<b>-0.50%</b>	<b>6.32%</b>	<b>-2.43%</b>	<b>6.31%</b>	<b>8.96%</b>	<b>-9.76%</b>
Principal repayment on interfund loan		\$ 105,000	\$ 105,000	\$ 105,000	\$ 105,000	\$ 105,000	\$ 105,000	\$ 105,000	\$ 105,000
Annual change in current resources(net rev + repmt)		\$ 105,000	\$ 153,087	\$ 153,087	\$ 107,203	\$ 36,576	\$ (54,345)	\$ (32,098)	\$ (198,649)
Projected current resources at fiscal year end		\$ 231,245	\$ 384,332	\$ 491,535	\$ 528,111	\$ 473,766	\$ 441,668	\$ 243,019	\$ 243,019
Current resources as a percentage of operating budget		12.20%	21.40%	26.69%	27.98%	24.52%	22.49%	11.78%	11.78%
net hauling and disposal costs									

Note 1: Charges for services: no changes in fees are included in FY 15-20 projections. Staff will continue to investigate disposal and operations options with the goal of stabilizing the financial position of the operation over the long term.

**CITY OF KEENE, NEW HAMPSHIRE**  
**Solid Waste Fund 2015 - 2020 Capital Improvement Program Summary**

<u>Dept.</u>	<u>Project Name</u>	<u>2014/2015</u>	<u>2015/2016</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>TOTAL</u>
Public Works	Capital Reserve - Recycling/Transfer Facility	\$ 40,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 265,000
Public Works	Recycling Equipment Replacement	-	34,873	42,351	250,000	-	-	327,224
Public Works	Three-phase Power	-	-	-	56,000	560,000	-	616,000
Public Works	Transfer Station Roof Replacement	-	-	-	-	166,750	-	166,750
Public Works	Transfer Station Floor Repair	-	207,828	-	-	-	-	207,828
<b>TOTAL CAPITAL PROGRAM</b>		<b>\$ 40,000</b>	<b>\$ 287,701</b>	<b>\$ 87,351</b>	<b>\$ 351,000</b>	<b>\$ 771,750</b>	<b>\$ 45,000</b>	<b>\$ 1,582,802</b>

**PROJECT FUNDING DETAIL**

**Reserve Funded Projects**

Public Works	Recycling Equipment Replacement	\$ -	\$ 34,873	\$ 42,351	\$ 250,000	\$ -	\$ -	\$ 327,224
<b>Total: Reserve Funded Projects</b>		<b>\$ -</b>	<b>\$ 34,873</b>	<b>\$ 42,351</b>	<b>\$ 250,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 327,224</b>

**Projects Funded with Debt**

Public Works	Transfer Station Floor Repair	\$ -	\$ 207,828	-	-	-	-	\$ 207,828
Public Works	Transfer Station Roof Replacement	-	-	-	-	\$ 166,750	-	\$ 166,750
Public Works	Three-phase Power	-	-	-	-	560,000	-	560,000
<b>Total: Projects Funded with Debt</b>		<b>\$ -</b>	<b>\$ 207,828</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 726,750</b>	<b>\$ -</b>	<b>\$ 934,578</b>

**Capital Reserve Appropriations**

Public Works	Capital Reserve - Recycling/Transfer Facility	\$ 40,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 265,000
<b>Total: Capital Reserve Appropriations</b>		<b>\$ 40,000</b>	<b>\$ 45,000</b>	<b>\$ 265,000</b>				

**Projects Funded with State Grant**

Public Works	n/a	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total: Projects Funded with State Grant</b>		<b>\$ -</b>						

**Projects Funded with Cash**

Public Works	Three-phase Power	\$ -	\$ -	\$ -	\$ 56,000	\$ -	\$ -	\$ 56,000
<b>Total: Projects Funded with Cash</b>		<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 56,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 56,000</b>

**Subtotal: Uses of Cash**

(Capital Reserve Appropriations plus Projects Funded with Cash)

<b>Subtotal: Uses of Cash</b>		<b>\$ 40,000</b>	<b>\$ 45,000</b>	<b>\$ 45,000</b>	<b>\$ 101,000</b>	<b>\$ 45,000</b>	<b>\$ 45,000</b>	<b>\$ 321,000</b>
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**TOTAL CAPITAL PROGRAM**

<b>TOTAL CAPITAL PROGRAM</b>		<b>\$ 40,000</b>	<b>\$ 287,701</b>	<b>\$ 87,351</b>	<b>\$ 351,000</b>	<b>\$ 771,750</b>	<b>\$ 45,000</b>	<b>\$ 1,582,802</b>
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## Solid Waste Fund 2015 - 2020 Capital Improvement Program Debt Summary

	<u>FY15</u>	<u>FY16</u>	<u>FY17</u>	<u>FY18</u>	<u>FY19</u>	<u>FY20</u>
Existing and Authorized Debt	\$236,296	\$201,019	\$373,569	\$305,935	\$238,449	\$913,009
New Issues Proposed	-	207,828			726,750	-
Principal Paid	(35,278)	(35,278)	(67,634)	(67,486)	(52,190)	(119,306)
Total Existing Debt & Issues Proposed	\$201,019	\$373,569	\$305,935	\$238,449	\$913,009	\$793,703

	<u>Issue</u>	<u>Term</u>	<u>FY15</u>	<u>FY16</u>	<u>FY17</u>	<u>FY18</u>	<u>FY19</u>	<u>FY20</u>
<b>Existing &amp; Authorized Debt Service (P &amp; I)</b>			\$46,468	\$44,886	\$45,820	\$43,881	\$27,000	\$25,875
<b><u>Proposed Debt Service CIP FY15</u></b>								
N/A								
<b><u>Proposed Debt Service CIP FY16</u></b>								
Transfer Station Floor Repair	207,828	7		3,637	36,444	35,405	34,366	33,327
<b><u>Proposed Debt Service CIP FY17</u></b>								
N/A								
<b><u>Proposed Debt Service CIP FY18</u></b>								
N/A								
<b><u>Proposed Debt Service CIP FY19</u></b>								
Transfer Station Roof Replacement	166,750	15					2,918	16,758
Three Phase Power	560,000	10					9,800	74,620
<b><u>Proposed Debt Service CIP FY20</u></b>								
N/A								
<b>Total CIP15-20 Debt Service Proposed</b>			0	3,637	36,444	35,405	47,084	124,705
<b>Total Projected Debt Service: Solid Waste Fund</b>			\$46,468	\$48,523	\$82,264	\$79,286	\$74,084	\$150,580



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Capital Reserve- Recycle/Transfer**  
 Department: **Public Works**  
 Physical Location: **55 Old Summit Road**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Renewable Energy and Efficient Use of Resources**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Allow for continued diversion of waste stream through recycling**



### PROJECT DESCRIPTION/JUSTIFICATION

In 1996 the City developed a reserve in the Solid Waste fund to provide funding to repair or replace major pieces of equipment or facility components.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation								0
Property/Equip. Acquisition			34,873	42,351	250,000			327,224
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$34,873</b>	<b>\$42,351</b>	<b>\$250,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$327,224</b>
<b>FUNDING</b>								
Current Revenue	170,220	40,000	45,000	45,000	45,000	45,000	45,000	\$435,220
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources		526	639	666	675	164	277	2,947
<b>TOTAL</b>	<b>\$170,220</b>	<b>\$40,526</b>	<b>\$45,639</b>	<b>\$45,666</b>	<b>\$45,675</b>	<b>\$45,164</b>	<b>\$45,277</b>	<b>\$438,167</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Recycling Equipment Replacement**  
 Department: **Public Works**  
 Physical Location: **55 Old Summit Road**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Renewable Energy and Efficient Use of Resources**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Allows for continued diversion of waste stream through recycling**



### PROJECT DESCRIPTION/JUSTIFICATION

In 2014 the Keene Recycling Center will be 20 years old and each piece of original equipment will have over 22,288 hours of use. All of the original equipment has a manufacturer expected life of 10 years. The Solid Waste Division currently contracts scheduled/preventative maintenance on all equipment to extend the life of the equipment where possible. Only equipment that no longer functions properly, affects facility efficiency, or represents a safety hazard would be replaced. Equipment expected to be replaced over the next several years includes the eddy current separator (for aluminum cans) and cross belt magnet (for steel cans), and horizontal baler.

Equipment to be replaced in 2016: eddy current separator \$34,873 (includes installation cost), 2017: cross belt magnet \$42,351 (includes installation cost). Equipment to be replaced in 2018: horizontal baler \$250,000 (includes installation cost). An established capital reserve account funds the repair/replacement of major pieces of equipment at the Recycling Center.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation								0
Property/Equip. Acquisition			34,873	42,351	250,000			327,224
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$34,873</b>	<b>\$42,351</b>	<b>\$250,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$327,224</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve			34,873	42,351	250,000			327,224
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$34,873</b>	<b>\$42,351</b>	<b>\$250,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$327,224</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Three Phase Power**  
 Department: **Public Works**  
 Physical Location: **55 Old Summit Road**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Renewable Energy and Efficient Use of Resources**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Allows for continued diversion of waste stream through recycling, processing solid waste**



### PROJECT DESCRIPTION/JUSTIFICATION

The Solid Waste facility currently runs on landfill gas generated power. It is expected that as the decomposition of refuse diminishes the gas generation will eventually be insufficient to provide a reliable power source for the Solid Waste facility. In the interim, the Solid Waste Division is performing repair and maintenance functions to the existing landfill gas wellfield in hopes that sufficient gas can continue to be extracted to provide power to the facility. In the event that there is insufficient gas to power the facility three phase power lines will be needed to provide electrical power. The closest three phase power lines end at Black Brook North. The lines would be extended north on Route 12 and down Old Summit Road to the Solid Waste facility.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design					56,000			56,000
Construction/Implementation						560,000		560,000
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$56,000</b>	<b>\$560,000</b>	<b>\$0</b>	<b>\$616,000</b>
<b>FUNDING</b>								
Current Revenue					56,000			\$56,000
Capital Reserve								0
Debt Funded						560,000		560,000
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$56,000</b>	<b>\$560,000</b>	<b>\$0</b>	<b>\$616,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Moderate \$50,001 to \$100,000  
Multi-year

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Transfer Station Roof Repair**  
 Department: **PUBLIC WORKS**  
 Physical Location: **55 Old Summit Road**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Maintain recycling facility to enable continued processing of recyclables**



### PROJECT DESCRIPTION/JUSTIFICATION

The Solid Waste Facility was built in 1994. The Solid Waste Division, through CMA Engineers, the original designers of the facility, conducted an evaluation of the site to review drainage systems, building condition, and road systems. The evaluation resulted in recommendations for short and long term capital needs to maintain the Facility. The facility has undergone some short term improvements recommended including reinforcement of the upper portion of the push wall at the Transfer Station to prevent damage to the siding and replacement of damaged siding. One of the pressing long term capital needs is a replacement of the roof on the solid waste facility building. Small leaks are beginning to appear in the roof which are patched as necessary, but the overall integrity of the roof, which was designed to last 20 years, is starting to become compromised. The roof will be evaluated every year to determine if the project needs to be accelerated or can be deferred.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation						166,750		166,750
Property/Equip. Acquisition								0
<b>TOTAL</b>	\$0	\$0	\$0	\$0	\$0	\$166,750	\$0	\$166,750
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve								0
Debt Funded						166,750		166,750
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	\$0	\$0	\$0	\$0	\$0	\$166,750	\$0	\$166,750

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Minimal \$5,001 to \$50,000  
Multi-year

**PROJECT STATUS:** New Project



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Transfer Station Floor Repair**  
 Department: **Public Works**  
 Physical Location: **55 Old Summit Road**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Renewable Energy and Efficient Use of Resources**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Allows for continued processing of solid waste**



### PROJECT DESCRIPTION/JUSTIFICATION

The addition to the transfer station was completed in 2002. Since that time over 390,000 tons (780,000,000 pounds, or 15,600 tractor trailer loads), of refuse has been processed at the facility. The wear and tear of heavy vehicles has worn off the top course of concrete and has resulted in exposure of rebar on the concrete tipping floor which is a prelude to the floor eventually breaking apart as the floor thickness is reduced and is unable to support the weight of the vehicle traffic. The extent of wear areas makes spot repair impractical, therefore floor replacement is recommended. The scope of work would include removal and replacement of existing 45' by 65' floor, repair of the 65' knee wall that separates the tipping floor from the tractor trailer tunnel and replacement of the grating used for drainage (to a storage tank that is pumped and treated at the Wastewater Treatment Facility). The temporary transfer station located on the upper level of the facility will be used during construction.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation			207,828					207,828
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$207,828</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$207,828</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve								0
Debt Funded			207,828					207,828
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$207,828</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$207,828</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Minimal \$5,001 to \$50,000  
Multi-year

**PROJECT STATUS:** Ongoing CIP

**CITY OF KEENE, NEW HAMPSHIRE**  
**CAPITAL IMPROVEMENT PROGRAM FY15-FY20**  
**Sewer fund Multi-Year Projections**

	ACTUAL FY 11/12	ACTUAL FY 12/13	BUDGET FY 13/14	PROJECTED FY 14/15	PROJECTED FY 15/16	PROJECTED FY 16/17	PROJECTED FY 17/18	PROJECTED FY 18/19	PROJECTED FY 19/20
<b>REVENUES</b>									
Taxes	\$47,715	\$44,907	\$44,342	\$42,662	\$40,194	\$38,841	\$36,518		
Intergovernmental	606,238	398,777	130,242	131,950	134,589	137,281	140,026	142,827	145,683
Charges for Services	5,209,230	5,348,643	6,100,196	6,382,390	7,049,558	7,073,685	6,853,731	7,072,691	7,147,080
Miscellaneous	16,177	80,893	7,000	7,105	7,247	7,392	7,540	7,691	7,844
Use of Surplus			(755,784)						
<b>TOTAL REVENUES</b>	\$5,879,359	\$5,873,220	\$5,525,996	\$6,564,107	\$7,231,588	\$7,257,199	\$7,037,815	\$7,223,209	\$7,300,607
<b>EXPENSES</b>									
Sewer Administration	\$761,610	\$745,478	\$684,365	\$678,540	\$690,754	\$703,187	\$715,845	\$732,309	\$749,152
Mains & Manholes	260,806	297,264	386,099	372,466	\$379,170	\$385,995	\$392,943	\$401,981	\$411,227
Services	5,583	23,363	9,238	9,405	\$9,574	\$9,747	\$9,922	\$10,150	\$10,384
Martell Court pump stn	175,794	128,689	170,672	172,965	\$176,078	\$179,248	\$182,474	\$186,671	\$190,965
Laboratory	206,175	193,610	213,441	216,274	\$220,167	\$224,130	\$228,164	\$233,412	\$238,781
Maintenance	102,321	117,303	140,980	143,371	\$145,952	\$148,579	\$151,253	\$154,732	\$158,291
WWTP	2,288,729	2,362,359	2,699,740	2,587,602	2,634,179	2,681,594	2,729,863	\$2,792,650	\$2,856,881
Depreciation Expense	940,618	926,686	955,200	969,528	984,071	1,429,465	1,614,907	\$1,639,131	\$1,663,718
Debt Service - CURRENT	199,103	179,803	266,260	216,387	308,021	270,005	236,817	206,609	177,141
Debt Service - PROJECTED				13,970	27,242	25,845	47,755	68,500	64,773
<b>SUBTOTAL</b>	4,940,740	4,974,555	5,525,996	5,380,508	5,575,208	6,057,795	6,309,944	6,426,145	6,521,311
MINOR CAPITAL	321,097	93,240	0	\$0	0	0	0	0	0
<b>TOTAL EXPENSE</b>	\$5,261,837	\$5,067,795	5,525,996	5,380,508	\$5,575,208	\$6,057,795	\$6,309,944	\$6,426,145	\$6,521,311
<b>NET REVENUE (EXPENSE)</b>	\$617,523	\$805,425	\$0	\$1,183,599	\$1,656,380	\$1,199,404	\$727,871	\$797,064	\$779,296

**SEWER FUND INCREASE**      9.04%      -2.63%      3.62%      8.66%      4.16%      1.84%      1.48%

**This section adjusts Net Revenue (Expense) to include uses of cash not recorded as expense, and to exclude expenses that do not require the use of cash. The purpose of the adjustment is to reflect the projected uses of cash from FY 15 thru FY 20:**

Add Back: Depreciation	\$969,528	\$984,071	\$1,429,465	\$1,614,907	\$1,639,131	\$1,663,718
State Aid Grant Principal Receipts	15,757	15,242	13,320	12,700		
Subtract: Debt Svc Principal Current Debt (Note 3)	(1,111,884)	(1,639,001)	(1,623,072)	(1,346,737)	(1,305,796)	(1,307,399)
Principal: New Debt	0	(39,915)	(39,915)	(39,915)	(106,508)	(106,508)
Tfrs to Capital Reserve	(750,000)	(900,000)	(800,000)	(800,000)	(850,000)	(850,000)
Capital Outlays	(307,000)	(76,775)	(179,202)	(168,826)	(173,891)	(179,108)
<b>Projected Annual Cash Surplus (Deficit)</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Note 1: Net Revenue (Expense) indicates the anticipated increase (decrease) in retained earnings at the end of the year.

Note 2: Net revenue is anticipated to pay for debt service and capital improvements.

Note 3: Debt Service principal, capital outlays, state aid grant principal receipts, and transfers to reserves are balance sheet transactions, and are not included in expenses.

Note 4: Budgeted revenues exclude Use of Surplus / Fund Balance.

Note 5: Additional revenue raised in FY 13-20 to cover capital outlays and debt service in FY 13-20 and future years.

Note 6: Intergovernmental Revenues in FY 2012 and 2013 include ARRA and other federal grant revenue of \$493,698 and \$282,912, respectively.

**Billing Projections**

	<u>FY 14/15</u>	<u>FY 15/16</u>	<u>FY 16/17</u>	<u>FY 17/18</u>	<u>FY 18/19</u>	<u>FY 19/20</u>
Combined Water and Sewer Utility Billing Projections: Residential property with a 5/8" connection and consumption of 27 HCF (hundred cubic feet) per quarter						
Projected Quarterly Bill	\$ 304.68	\$ 322.40	\$ 336.35	\$ 341.92	\$ 351.50	\$ 357.54
Change from Prior Year	\$ 9.72	\$ 17.72	\$ 13.95	\$ 5.57	\$ 9.58	\$ 6.04
Percentage change	3.30%	5.82%	4.33%	1.66%	2.80%	1.72%
Sewer Utility Billing Projections: Residential property with a 5/8" connection and consumption of 27 HCF (hundred cubic feet) per quarter						
Projected Quarterly Bill	\$ 191.25	\$ 206.17	\$ 215.35	\$ 216.20	\$ 219.62	\$ 221.72
Change from Prior Year	\$ 5.59	\$ 14.92	\$ 9.18	\$ 0.85	\$ 3.42	\$ 2.10
Percentage change	3.01%	7.80%	4.45%	0.39%	1.58%	0.96%

# CITY OF KEENE, NEW HAMPSHIRE

## Sewer Fund 2015 - 2020 Capital Improvement Program Summary

<u>Dept.</u>	<u>Project Name</u>	<u>2014/2015</u>	<u>2015/2016</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>TOTAL</u>
Public Works	Reserve: Martell Court	\$ -	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000
Public Works	Reserve: Sewer Infrastructure	350,000	600,000	500,000	450,000	500,000	500,000	2,900,000
Public Works	Reserve: Wastewater Treatment Plant	400,000	250,000	250,000	300,000	300,000	300,000	1,800,000
Public Works	Laboratory Equipment Replacement		36,275	15,293				51,568
Public Works	Martell Court Grinder Rehabilitation	-	200,000	-	-	-	-	200,000
Public Works	Martell Court Roof Replacement		20,000					20,000
Public Works	Martell Court Phase 2				9,500	51,015	127,000	187,515
Public Works	Rose Lane WWTP Closure	798,303						798,303
Public Works	Sewer Main Improvements		906,322	996,774	1,331,850	397,321	409,241	4,041,508
Public Works	Sewer Structural Repairs	154,500	159,135	163,909	168,826	173,891	179,108	999,369
Public Works	WWTP Aeration Basin Gate Replacement		13,080	172,260				185,340
Public Works	WWTP Blower Replacement				66,739	174,137	179,360	420,236
Public Works	WWTP Generator Replacement					18,375	120,035	138,410
Public Works	WWTP Grit Removal				150,000			150,000
Public Works	WWTP NPDES Permitting	31,000	40,500					71,500
Public Works	WWTP Roof Replacement	198,380						198,380
Public Works	WWTP Sludge Pump Replacement			52,000				52,000
Public Works	WWTP Solids Dewatering Equipment	3,276,000						3,276,000
Public Works	WWTP Non-Potable Water System					65,400		65,400
<b>TOTAL CAPITAL PROGRAM</b>		<b>\$ 5,208,183</b>	<b>\$ 2,275,312</b>	<b>\$ 2,200,236</b>	<b>\$ 2,526,915</b>	<b>\$ 1,730,139</b>	<b>\$ 1,864,744</b>	<b>\$ 15,805,529</b>

### PROJECT FUNDING DETAIL

#### Reserve Funded Projects

Public Works	Martell Court Grinder Rehabilitation	\$ -	\$ 98,977	\$ -	\$ -	\$ -	\$ -	\$ 98,977
Public Works	Martell Court Roof Replacement	-	9,865	-	-	-	-	9,865
Public Works	Martell Court Phase 2				9,500	51,015	127,000	187,515
Public Works	Sewer Main Improvements	-	906,322	996,774	-	397,321	409,241	2,709,658
Public Works	WWTP Aeration Basin Gate Replacement	-	-	172,260	-	-	-	172,260
Public Works	WWTP Blower Replacement	-	-	-	5,663	174,137	179,360	359,160
Public Works	WWTP Generator Replacement	-	-	-	-	18,375	120,035	138,410
Public Works	WWTP Grit Removal	-	-	-	129,580	-	-	129,580
Public Works	WWTP Roof Replacement	198,380	-	-	-	-	-	198,380
Public Works	WWTP Sludge Pump Replacement	-	-	52,000	-	-	-	52,000
Public Works	WWTP Solids Dewatering Equipment	3,000,000	-	-	-	-	-	3,000,000
Public Works	WWTP Non-Potable Water System	-	-	-	-	65,400	-	65,400
<b>Total: Reserve Funded Projects</b>		<b>\$ 3,198,380</b>	<b>\$ 1,015,164</b>	<b>\$ 1,221,034</b>	<b>\$ 144,743</b>	<b>\$ 706,248</b>	<b>\$ 835,636</b>	<b>\$ 7,121,205</b>

#### Projects Funded with Debt

Public Works	Sewer Main Improvements	\$ -	\$ -	\$ -	\$ 1,331,850	\$ -	\$ -	\$ 1,331,850
Public Works	Rose Lane WWTP Closure	798,303	-	-	-	-	-	798,303
<b>Total: Projects Funded with Debt</b>		<b>\$ 798,303</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,331,850</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,130,153</b>

#### Projects Funded with Grants

Public Works	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total: Projects Funded with State Grant</b>		<b>\$ -</b>						

#### Capital Reserve Appropriations

Public Works	Reserve: Martell Court	\$ -	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000
Public Works	Reserve: Sewer Infrastructure	350,000	600,000	500,000	450,000	500,000	500,000	2,900,000
Public Works	Reserve: Wastewater Treatment Plant	400,000	250,000	250,000	300,000	300,000	300,000	1,800,000
<b>Total: Capital Reserve Appropriations</b>		<b>\$ 750,000</b>	<b>\$ 900,000</b>	<b>\$ 800,000</b>	<b>\$ 800,000</b>	<b>\$ 850,000</b>	<b>\$ 850,000</b>	<b>\$ 4,950,000</b>

**CITY OF KEENE, NEW HAMPSHIRE**  
**Sewer Fund 2015 - 2020 Capital Improvement Program Summary**

<u>Dept.</u>	<u>Project Name</u>	<u>2014/2015</u>	<u>2015/2016</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>TOTAL</u>
<b><u>Projects Funded with Cash</u></b>								
Public Works	Sewer Structural Repairs	\$ 154,500	\$ 159,135	\$ 163,909	\$ 168,826	\$ 173,891	\$ 179,108	\$ 999,369
Public Works	Laboratory Equipment Replacement		36,275	15,293				51,568
Public Works	Martell Court Grinder Rehabilitation	-	101,023	-	-	-	-	101,023
Public Works	Martell Court Roof Replacement		10,135					10,135
Public Works	WWTP Blower Replacement				61,076			61,076
Public Works	Grit Removal				20,420			20,420
Public Works	WWTP NPDES Permitting	31,000	40,500					71,500
Public Works	WWTP Solids Dewatering Equipment	276,000						276,000
Public Works	WWTP Aeration Gate Replacement	-	13,080	-	-	-	-	13,080
<b>Total: Projects Funded with Cash</b>		<b>\$ 461,500</b>	<b>\$ 360,148</b>	<b>\$ 179,202</b>	<b>\$ 250,322</b>	<b>\$ 173,891</b>	<b>\$ 179,108</b>	<b>\$ 1,604,171</b>
<b>Subtotal: Uses of Current Cash</b>		<b>\$ 1,211,500</b>	<b>\$ 1,260,148</b>	<b>\$ 979,202</b>	<b>\$ 1,050,322</b>	<b>\$ 1,023,891</b>	<b>\$ 1,029,108</b>	<b>\$ 6,554,171</b>
(Capital Reserve Appropriations plus Projects Funded with Current Cash)								
<b>TOTAL: CAPITAL PROGRAM</b>		<b>\$ 5,208,183</b>	<b>\$ 2,275,312</b>	<b>\$ 2,200,236</b>	<b>\$ 2,526,915</b>	<b>\$ 1,730,139</b>	<b>\$ 1,864,744</b>	<b>\$ 15,805,529</b>

*New cash Requirement FY 15-20: reconciliation*

<i>Total: Uses of cash</i>	\$1,211,500	\$1,260,148	\$979,202	\$1,050,322	\$1,023,891	\$1,029,108	\$6,554,171
<i>Headworks Replacement: FY 14 Authorization</i>		(\$101,023)					
<i>M-C Roof Replacement: FY 13 Authorization</i>		(\$10,135)					
<i>WWTP Aeration Gate: FY 14 Authorization</i>		(\$13,080)					
<i>WWTP Blower Replace: FY 14 Authorization</i>				(\$61,076)			
<i>WWTP Grit Removal: FY 14 Authorization</i>				(\$20,420)			
<i>Sewer Structural Repairs (FROM 08064)</i>	(54,500)	(\$159,135)					
<i>Sewer Structural Repairs (FROM 08062)</i>	(100,000)	-					(100,000)
<i>New Funds needed</i>	\$ 1,057,000	\$ 976,775	\$ 979,202	\$ 968,826	\$1,023,891	\$1,029,108	\$6,454,171

## Sewer Fund 2015 - 2020 Capital Improvement Program Debt Summary

	<u>FY15</u>	<u>FY16</u>	<u>FY17</u>	<u>FY18</u>	<u>FY19</u>	<u>FY20</u>
Existing and Authorized Debt	\$15,096,784	\$14,783,204	\$13,104,287	\$12,773,151	\$11,386,499	\$9,974,195
New Issues Proposed	798,303	-	1,331,850	-	-	-
Principal Paid	(1,111,884)	(1,678,916)	(1,662,987)	(1,386,652)	(1,412,304)	(1,413,907)
<b>Total Existing Debt &amp; Issues Proposed</b>	<b>\$14,783,204</b>	<b>\$13,104,287</b>	<b>\$12,773,151</b>	<b>\$11,386,499</b>	<b>\$9,974,195</b>	<b>\$8,560,288</b>

	<u>Issue</u>	<u>Term</u>	<u>FY15</u>	<u>FY16</u>	<u>FY17</u>	<u>FY18</u>	<u>FY19</u>	<u>FY20</u>
<b>Existing &amp; Authorized Debt Service (P &amp; I)</b>			\$1,328,271	\$1,947,023	\$1,893,076	\$1,583,554	\$1,512,405	\$1,484,541
<b><u>Proposed Debt Service CIP FY15</u></b>								
Rose Lane WWTP Closure	798,303	20	13,970	67,157	65,760	64,363	62,966	61,569
<b><u>Proposed Debt Service CIP FY16</u></b>								
N/A								
<b><u>Proposed Debt Service CIP FY17</u></b>								
N/A								
<b><u>Proposed Debt Service CIP FY18</u></b>								
Sewer Main Improvements	1,331,850	20				23,307	112,042	109,711
<b><u>Proposed Debt Service CIP FY19</u></b>								
N/A								
<b><u>Proposed Debt Service CIP FY20</u></b>								
N/A								
<b>Total CIP15-20 Debt Service Proposed</b>			13,970	67,157	65,760	87,671	175,008	171,280
<b>Total Projected Debt Service: Sewer Fund</b>			<b>\$1,342,241</b>	<b>\$2,014,180</b>	<b>\$1,958,837</b>	<b>\$1,671,225</b>	<b>\$1,687,413</b>	<b>\$1,655,821</b>

## CAPITAL RESERVE -- Martell Court Pump Station

This reserve is to set aside funds for replacement or upgrade of existing equipment and facilities at the Martell Court pump station. The estimated total replacement value of the pump station is \$6,016,731. The 6-year requested total for the reserve is \$250,000, with \$296,357 scheduled for improvements. The projected balance of the reserve at the end of FY 14 is \$603,251. Combined with projected interest income of \$9,719, the projected balance at the end of FY20 will be approximately \$566,613. This represents approximately 9.4% of the present replacement value of the pumping station.

Major Equipment/Systems	Year Constructed	Expected Life (years)	Estimated Replace/Install Date	Present Replace/Install Cost
Solids Grinder	1992	15	Rehab in FY16	\$1,177,994
Generator/Transformer	1985	35	2020	\$187,515
Martel Court Roof	1985	30	Repair in FY16	\$71,735
Building and Systems	1985	50	2035	\$2,959,487
7 Sewage Diversion Gates	2014	20	2024	\$120,000
4 Raw Sewage Pumps and Controls	2014	20	2024	\$1,500,000
Total				<b>\$6,016,731</b>

### Details of the expenditures from the Martell Court Capital Reserve Fund - Years 15 through 20

<b>FY16</b>	\$	98,977	Grinder Rehabilitation
	\$	9,865	Roof Repair
<b>FY18</b>	\$	9,500	MCPS Phase 2 Design
<b>FY19</b>	\$	51,015	MCPS Phase 2 Construction and Implementation
<b>FY20</b>	\$	127,000	MCPS Phase 2 Equipment Acquisition
<b>Total</b>	\$	296,357	



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Capital Reserve - Martell Court**  
 Department: **Public Works - Sewer Fund**  
 Physical Location:  
 Federal Mandate: **No**  
 State Regulation or Law: **No**  
 Master Plan (CMP) Focus Area: **Vibrant Economy**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **Policy**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Yes**



### PROJECT DESCRIPTION/JUSTIFICATION

This capital reserve account is for funding major planned and unplanned repairs and systems replacement at the Martell Court Pump Station. The *Municipal Wastewater Financial Management* handbook recommends that a reserve account be used to provide funds for the planned or unplanned replacement of major pieces of equipment or building components. The use of this type of account helps the municipality stabilize cash flows for project funding through regular deposits and acts as a rainy day fund to provide funding in the case of emergency expenditure that cannot be absorbed by the regular operating budget. The City of Keene works to maintain the Martell Court capital reserve fund balance at 3-5% of the approximate current replacement value of the Martell Court Pump Station assets.

The City Council's fiscal policy establishes Capital Reserves, under State of NH law invested by the Trustees of Trust Funds, for specific purposes, including construction, reconstruction, or acquisition of a capital improvement or capital equipment.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation								0
Property/Equip. Acquisition			108,842		9,500	51,015	127,000	296,357
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$108,842</b>	<b>\$0</b>	<b>\$9,500</b>	<b>\$51,015</b>	<b>\$127,000</b>	<b>\$296,357</b>
<b>FUNDING</b>								
Current Revenue	603,251		50,000	50,000	50,000	50,000	50,000	\$853,251
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources		1,508	1,637	1,494	1,623	1,728	1,730	9,719
<b>TOTAL</b>	<b>\$603,251</b>	<b>\$1,508</b>	<b>\$51,637</b>	<b>\$51,494</b>	<b>\$51,623</b>	<b>\$51,728</b>	<b>\$51,730</b>	<b>\$862,970</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
Ongoing

**PROJECT STATUS:** Ongoing CIP

## CAPITAL RESERVE -- SEWER INFRASTRUCTURE

This reserve is a mechanism to set aside funds for replacement or upgrade of existing wastewater treatment systems and equipment. The various sewer distribution components are listed below and have an estimated present replacement/installation cost of \$75,135,947. The six-year requested appropriation for the reserve is \$2,900,000. Improvements totaling \$2,709,658 are planned. Combined with the projected balance of \$969,609 at the end of FY14 and projected interest earnings of \$22,026, the projected balance of the reserve at the end of FY20 will be approximately \$1,181,977. This represents approximately 1.3% of the present replacement cost of the combined sewer infrastructure.

Equipment	Year Constructed	Expected Life (years)	Estimated Replace/Install Date	Present Replace/Install Cost
Court Street Lift Station *	1976	50	2026	\$182,287
Bradco Lift Station *	1981	50	2031	\$187,561
Farmstead Common Lift Station *	1992	50	2042	\$219,977
Black Brook Lift Station *	1996	50	2046	\$189,122
subtotal				\$778,947
Wastewater Collection System	1890-present	50-75		\$74,357,000
Total				\$75,135,947

\* Expected life for buildings and infrastructure is 50 years. The various mechanical and equipment components have an expected life of 10-15 years.

\*\* There are more than 86 miles of sewer mains in Keene. Replacement cost is estimated from the 2003 Infrastructure Report.

### Details of the expenditures from the Sewer Infrastructure Capital Reserve Fund - Years 15 through 20

<b>FY16</b>	Sewer Improvements	\$906,322
<b>FY17</b>	Sewer Improvements	\$996,774
<b>FY19</b>	Sewer Improvements	\$397,321
<b>FY20</b>	Sewer Improvements	\$409,241



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Capital Reserve-Sewer Infrastructure**  
 Department: **Public Works - Sewer Fund**  
 Physical Location: **Various**  
 Federal Mandate: **No**  
 State Regulation or Law: **No**  
 Master Plan (CMP) Focus Area: **Vibrant Economy**  
 CMP Vision/Strategy: **Municipal Governance & Financial Stability**  
 Council Initiative: **Policy**  
 V.O.I.C.E.: **Establish Priorities**  
 Departmental Objective: **Yes**



### PROJECT DESCRIPTION/JUSTIFICATION

This capital reserve account is for funding major planned and unplanned repairs and systems replacement in the wastewater collection system. The *Municipal Wastewater Financial Management* handbook recommends that a reserve account be used to provide funds for the planned or unplanned replacement of major pieces of equipment or building components. The use of this type of account helps the municipality stabilize cash flows for project funding through regular deposits and acts as a rainy day fund to provide funding in the case of emergency expenditure that cannot be absorbed by the regular operating budget. The City of Keene works to maintain the infrastructure capital reserve fund balance at 3-5% of the approximate current replacement value of the infrastructure assets.

The City Council's fiscal policy establishes Capital Reserves under State of NH law, invested by the Trustees of Trust funds, for specific purposes including construction, reconstruction, or acquisition or a capital improvement or capital equipment.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation								0
Property/Equip. Acquisition			906,322	996,774		397,321	409,241	2,709,658
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$906,322</b>	<b>\$996,774</b>	<b>\$0</b>	<b>\$397,321</b>	<b>\$409,241</b>	<b>\$2,709,658</b>
<b>FUNDING</b>								
Current Revenue	969,609	350,000	600,000	500,000	450,000	500,000	500,000	\$3,869,609
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources		3,299	4,807	3,803	2,446	3,702	3,968	22,025
<b>TOTAL</b>	<b>\$969,609</b>	<b>\$353,299</b>	<b>\$604,807</b>	<b>\$503,803</b>	<b>\$452,446</b>	<b>\$503,702</b>	<b>\$503,968</b>	<b>\$3,891,634</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
Ongoing

**PROJECT STATUS:** Ongoing CIP

## CAPITAL RESERVE -- WASTEWATER TREATMENT PLANT

The various components of the Wastewater Treatment Plant are listed below and have an estimated replacement cost of approximately \$30,853,258. The six-year requested funding for the reserve is \$1,800,000. Projected outlays for the same period will be approximately \$4,115,190. Combined with the projected balance of \$2,813,299 at the end of FY14, and projected interest earnings through FY20 of \$15,471, the projected balance at the end of FY20 will be \$513,580, which represents approximately 1.7% of the present replacement cost of the Wastewater Treatment Plant.

<b>Equipment</b>	<b>Year Constructed</b>	<b>Expected Life (years)</b>	<b>Estimated Replace/Install Date</b>	<b>Present Replace/Install Cost</b>
Grit Removal Rehab (rehabilitation FY18)	1985	25	2028	\$2,052,426
Dewatering Equipment	1985	15	2015	\$3,276,000
WWTP Blower Replacement	1985	25	2018-2020	\$420,236
WWTP Roof Replacement	1985	25	2015	\$198,380
Sludge Pump Replacement (rehabilitation FY17)	1985	20	2028	\$648,571
Aeration Basin Gate Mixer Replacement	1985	20	2016-2017	\$185,340
Non-potable Service Water System	1985	25	2019	\$65,400
Building, Systems, and Equipment	1985	50	2035	\$24,006,905
<b>Total</b>				<b><u>\$30,853,258</u></b>

### Details of the expenditures from the WWTP Capital Reserve Fund - Years 15 through 20

<b>FY15</b>	\$ 3,000,000	WWTP Dewatering Systems Replacement
	\$ 198,380	WWTP roof replacement
<b>FY17</b>	\$ 172,260	WWTP Aeration Gate/Mixer Replacement
	\$ 52,000	WWTP Sludge pump replacement
<b>FY18</b>	\$ 129,580	WWTP Grit Removal Equipment Rehab
	\$ 5,663	WWTP Blower Replacement
<b>FY19</b>	\$ 65,400	WWTP Non-potable Service Water System
	\$ 18,375	WWTP Generator replacement design
	\$ 174,137	WWTP Blower Replacement
<b>FY20</b>	\$ 120,035	WWTP Generator replacement
	\$ 179,360	WWTP Blower Replacement
<b>Total</b>	\$ 4,115,190	



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Capital Reserve - WWTP**  
 Department: **Public Works - Sewer Fund**  
 Physical Location: **420 Airport Road**  
 Federal Mandate: **No**  
 State Regulation or Law: **No**  
 Master Plan (CMP) Focus Area: **Vibrant Economy**  
 CMP Vision/Strategy: **Municipal Governance & Financial Stability**  
 Council Initiative: **Policy**  
 V.O.I.C.E.: **Establish Priorities**  
 Departmental Objective: **Yes**



### PROJECT DESCRIPTION/JUSTIFICATION

This capital reserve account is for funding major planned and unplanned repairs and systems replacement at the Wastewater Treatment Plant. The *Municipal Wastewater Financial Management* handbook recommends that a reserve account be used to provide funds for the planned or unplanned replacement of major pieces of equipment or building components. The use of this type of account helps the municipality stabilize cash flows for project funding through regular deposits and acts as a rainy day fund to provide funding in the case of emergency expenditure that cannot be absorbed by the regular operating budget. The City of Keene works to maintain the infrastructure capital reserve fund balance at 3-5% of the approximate current replacement value of the infrastructure assets.

The City Council's fiscal policy establishes Capital Reserves, under State of NH law invested by the Trustees of Trust funds, for specific purposes including construction, reconstruction, or acquisition or a capital improvement or capital equipment.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation								0
Property/Equip. Acquisition		3,198,380		224,260	135,243	257,912	299,395	4,115,190
<b>TOTAL</b>	<b>\$0</b>	<b>\$3,198,380</b>	<b>\$0</b>	<b>\$224,260</b>	<b>\$135,243</b>	<b>\$257,912</b>	<b>\$299,395</b>	<b>\$4,115,190</b>
<b>FUNDING</b>								
Current Revenue	2,813,299	400,000	250,000	250,000	300,000	300,000	300,000	\$4,613,299
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources		8,033	682	1,309	1,502	1,917	2,027	15,471
<b>TOTAL</b>	<b>\$2,813,299</b>	<b>\$408,033</b>	<b>\$250,682</b>	<b>\$251,309</b>	<b>\$301,502</b>	<b>\$301,917</b>	<b>\$302,027</b>	<b>\$4,628,770</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
Multi-year

**PROJECT STATUS:** Ongoing CIP

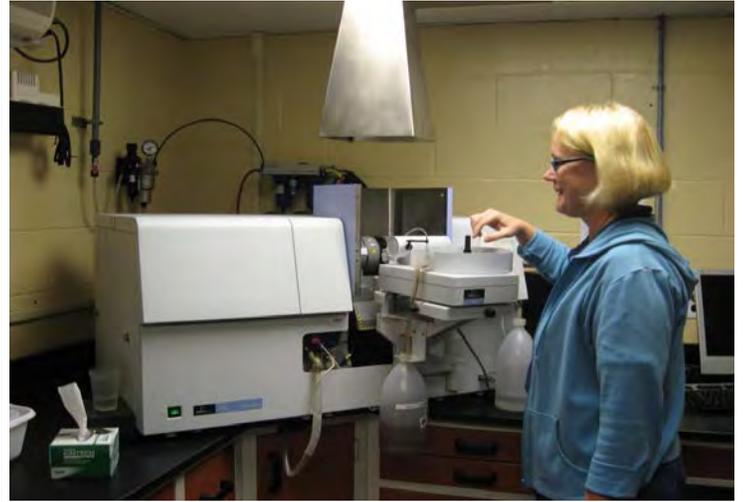


# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Laboratory Equipment**  
 Department: **Public Works - Sewer Fund**  
 Physical Location: **420 Airport Road**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Yes**



### PROJECT DESCRIPTION/JUSTIFICATION

This project funds the replacement of two pieces of laboratory equipment: one is used to test for metals and the second determines the amount of water in a sample. The Laboratory's Atomic Absorption Spectrophotometer (AA) is used to test trace metals and, as part of the equipment replacement schedule, is proposed for replacement in FY16. This piece of equipment was installed in 2005 and is approaching the end of its useful life as evidenced through increased downtime caused by failure of its electrical components. Analysis of wastewater, septage, surface water, groundwater, and drinking water that is performed in-house using this instrument would cost the City approximately \$32,850 per year if it were contracted out. The 2013 cost of the replacement has been adjusted by 3% each year through FY16 and the request is split between the water and sewer funds. \$1,000 for installation is allocated in each fund.

The laboratory uses an analytical grade solids drier to test the percent solids in wastewater sludge and dewatered cake samples. The current drier was purchased in 2002 and is scheduled for replacement in FY17. The information generated by this instrument is used to determine the dewatering equipment's effectiveness and to optimize the dewatering process. The manufacturer's quote for 2013 has been adjusted by 3% per year through FY17. No additional installation expenses are anticipated.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation			1,000					1,000
Property/Equip. Acquisition			35,275	15,293				50,568
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$36,275</b>	<b>\$15,293</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$51,568</b>
<b>FUNDING</b>								
Current Revenue			36,275	15,293				\$51,568
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$36,275</b>	<b>\$15,293</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$51,568</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** New Project



# CITY OF KEENE, NEW HAMPSHIRE 2015 - 2020 Capital Project Funding Request

## GENERAL PROJECT DATA

Project Name: **Grinder Rehabilitation**  
 Department: **Public Works - Sewer Fund**  
 Physical Location: **176 Martell Court**  
 Federal Mandate: **No**  
 State Regulation or Law: **No**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Yes**



Before Cleaning



After Cleaning

## PROJECT DESCRIPTION/JUSTIFICATION

This project extends the life of existing equipment by performing a significant rehabilitation of the sewage grinders at the Martell Court Pump Station. All of the raw wastewater from Keene and Marlborough flows through the main pump station located on Martell Court where the rags, trash, and other solids are chopped into small pieces by a grinder. The current grinders are approaching the end of their useful life but this upgrade is expected to extend their use through FY21.

The September 2010 "Evaluation of Phosphorus Removal Alternatives Report" recommends screening be installed at the Martell Court Pump station to remove materials that reduce wet well capacity, clog pumps and potentially settle out in the force main. The installation of screening had been scheduled for FY16, but has been pushed out past FY20 to reduce the debt burden on the Sewer Fund. This project provides significant renewal to keep the current equipment functioning through FY21.

## FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation			200,000					200,000
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$200,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$200,000</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve	101,023		98,977					200,000
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$101,023</b>	<b>\$0</b>	<b>\$98,977</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$200,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Negligible<\$5,001  
Ongoing

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Martell Court Roof Repair**  
 Department: **Public Works - Sewer Fund**  
 Physical Location: **176 Martell Court**  
 Federal Mandate: **No**  
 State Regulation or Law: **No**  
 Master Plan (CMP) Focus Area: **N/A**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Yes**



### PROJECT DESCRIPTION/JUSTIFICATION

This project repairs the roof at the Martell Court Pump Station (MCPS). The rubber roof was installed in 1984 has a typical life expectancy of 15-20 years. Rubber deteriorates with age due to the effects of ultraviolet rays and the hydrogen sulfide gas that is emitted from the building's roof top air handlers. Some repairs have been made to the roof already and, with other small repairs, the existing roof is expected to last through FY21.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation			20,000					20,000
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$20,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$20,000</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve	10,135		9,865					20,000
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$10,135</b>	<b>\$0</b>	<b>\$9,865</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$20,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Martell Court Upgrade Phase 2**  
 Department: **Public Works - Sewer Fund**  
 Physical Location: **176 Martell Court**  
 Federal Mandate: **No**  
 State Regulation or Law: **No**  
 Master Plan (CMP) Focus Area: **Unique Natural Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Yes**



### PROJECT DESCRIPTION/JUSTIFICATION

Phase 2 of the Martell Court Pump Station upgrade consists of the replacement of the transformer and generator that were installed when the Station was built in 1985. The FY18 request is for design of the 15 KVA transformer replacement and FY19 funds purchase and installation of a new transformer. The transformer converts high voltage power to secondary 480 volt power that is used to operate the station when line power is available. In FY19, the transformer will be 35 years old and approaching the end of its reliable life. FY19 also funds design for the replacement of the station's 620 kw generator and FY20 funds the purchase and installation of the generator equipment. By FY20, the generator will be 36 years old and parts will be obsolete. The generator provides power to keep the station's 4 large raw sewage pumps operating when line power is interrupted. A failure of the generator would result in sewage back up in streets and building flooding within several hours of losing line power.

Phase 1 of the Pump Station upgrade was funded in FY14 and included the replacement of 4 raw sewage pumps and their associated controls and replacement of the seven gates that control sewage flow into and through the station's wet well. It is expected to be complete in 2015.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design					9,500	18,375		27,875
Construction/Implementation						32,640	127,000	159,640
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$9,500</b>	<b>\$51,015</b>	<b>\$127,000</b>	<b>\$187,515</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve					9,500	51,015	127,000	187,515
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$9,500</b>	<b>\$51,015</b>	<b>\$127,000</b>	<b>\$187,515</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
One time

**PROJECT STATUS:** New Project



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Rose Lane WWTP Closure**  
 Department: **Public Works - Sewer Fund**  
 Physical Location: **Rose Lane**  
 Federal Mandate: **No**  
 State Regulation or Law: **Env-Wq 808.08b, 808.09, Env-Or600, Sw 800-1400**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Future Land Use & Public Policy**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **N/A**  
 Departmental Objective: **Yes**



### PROJECT DESCRIPTION/JUSTIFICATION

The Rose Lane Wastewater Treatment Facility was operated by the City from 1934 through 1985. The treatment process consisted of chlorination, settling tanks, and sludge drying beds. Sludge from the drying beds was dried and buried onsite. There are an estimated 11,300 tons of buried sludge material remaining at the Rose Lane Facility. In 2007, the New Hampshire Department of Environmental Services (NHDES) determined Rose Lane to be a sludge monofill which requires the City to implement a closure plan. Since that time, the City has been evaluating options to achieve closure in accordance with NHDES requirements.

This project will properly close the facility by creating a cap over the buried sludge and protecting it with an Activity Use Restriction (AUR). This restriction will limit activities on the capped area and will also require the City to monitor groundwater wells on the property for up to thirty (30) years. Approximately \$425,000 of this project will fund the removal of remnants of the original Wastewater Treatment Facility that were buried onsite when the plant was decommissioned.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation		798,303						798,303
Property/Equip. Acquisition								0
<b>TOTAL</b>		<b>\$798,303</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$798,303</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve								0
Debt Funded		798,303						798,303
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>		<b>\$798,303</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$798,303</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Minimal \$5,001 to \$50,000 Ongoing

**PROJECT STATUS:** Ongoing CIP

## Water and Sewer Improvements

The City's strategy for identifying and prioritizing water and sewer improvements in conjunction with roadwork for this Capital Improvement Program is the Road Overlay Program. It has evolved from its "Dig the Road Once" philosophy as the City's obligation under the 2004 Administrative Order requiring the replacement of specific sewers is complete.

A 2012 assessment of the City's paved streets used the pavement condition and traffic volume to develop a numeric rating. This rating was used to prioritize streets for overlay and streets were grouped into neighborhoods to gain efficiency in construction services and to improve the overall aesthetics of an area.

Before a street is overlaid, its water, sewer, and drain infrastructure is evaluated and repairs/improvements are planned for the year before the overlay is scheduled to avoid digging up a freshly paved road. The water, sewer, and drain evaluations are performed in different ways.

- *Sewers are evaluated according to their condition and capacity.*
  - Condition ratings were generated as part of the Priority Inspection Program that was performed between FY06 and FY11. The results of these inspections have been cataloged and deficiencies that require spot repair, short length lining, or complete lining have been identified.
  - Capacity issues have been identified using the computer model of the collection system. Inflow and infiltration is being evaluated in FY14 and will become an additional factor in future evaluations.
  
- *Water main evaluations are based on age, pressure/volume, and repair frequency.*
  - While no video is available that shows the condition of the water mains, the age and material are often used as clues to their conditions. As an example, mains that were constructed between 1930 and the 1970's were made of bituminous cast iron pipe (universal pipe) and are prone to leaks. Mains that do not have a cement lining can build up a hard layer of minerals that cannot be removed through the normal flushing programs.
  - The Department operational records are used to identify mains that have experienced a number of breaks.
  - The volume of water the main can transport, and what the relationship is of a given section of main to the rest of the system is evaluated using the water distribution model. If a section does not provide the anticipated volume or pressure, a piece can be cut out and visually inspected to determine the amount of material buildup.
  
- *The capacity of storm drains is evaluated by the contributing storm drainage area.*
  - If capacity is not adequate the drains are upsized by excavating and replacing the drain with a larger size pipe.
  - A storm drain model that will assist the evaluation of capacity is currently being developed.

Separate programs for the replacement of mainline water valves and the repair of sewers that are not associated with other road work have been created to keep the focus on this catch-up repair work.

## SEWER IMPROVEMENT LIST

The following tables outline the sewer improvements planned for **2015 - 2020 Capital Project Funding Request**. The construction cost estimates are based on 2013 prices. A contingency has been added to each project including an allowance for design, construction administration, supplies and overhead costs. The project costs have been adjusted annually by 3% for inflation to give an approximate estimated cost for the year the work is planned.

### 2015

ROAD NAME	LENGTH	TYPE WORK	EST. COST
Subtotal			\$0
Construction Contingency: 10%			<u>\$0</u>
Construction Totals			<u>\$0</u>
Design: 10%			\$0
Construction Administration: 10%			\$0
SUPV. & Overhead: 1%			<u>\$0</u>
Project Total			<u>\$0</u>
Inflation Factor: 3% / yr x 3 years			<u>\$0</u>
<b>Total Sewer Replacement</b>			<b><u>\$0</u></b>

### 2017

ROAD NAME	LENGTH	TYPE WORK	EST. COST
Perham sewer	1600	Replacement	\$665,380
Subtotal			\$665,380
Construction Contingency: 10%			<u>\$66,538</u>
Construction Totals			<u>\$731,918</u>
Design: 5%			\$73,192
Construction Administration: 10%			\$73,192
SUPV. & Overhead: 1%			<u>\$7,319</u>
Project Total			<u>\$885,621</u>
Inflation Factor: 3% / yr x 4 years			<u>\$111,153</u>
<b>Total Sewer Replacement</b>			<b><u>\$996,774</u></b>

### 2019

ROAD NAME	LENGTH	TYPE WORK	EST. COST
To Be Determined			\$250,000
Subtotal			\$250,000
Construction Contingency: 10%			<u>\$25,000</u>
Construction Totals			<u>\$275,000</u>
Design: 10%			\$27,500
Construction Administration: 10%			\$27,500
SUPV. & Overhead: 1%			<u>\$2,750</u>
Project Total			<u>\$332,750</u>
Inflation Factor: 3% / yr x 6 years			<u>\$64,571</u>
<b>Total Sewer Replacement</b>			<b><u>\$397,321</u></b>

### 2016

ROAD NAME	LENGTH	TYPE WORK	EST. COST
Silent Way - Edgewood Interceptor		Replacement	\$623,150
Subtotal			\$623,150
Construction Contingency: 10%			<u>\$62,315</u>
Construction Totals			<u>\$685,465</u>
Design: 10%			\$68,547
Construction Administration: 10%			\$68,547
SUPV. & Overhead: 1%			<u>\$6,855</u>
Project Total			<u>\$829,413</u>
Inflation Factor: 3% / yr x 3 years			<u>\$76,909</u>
<b>Total Sewer Replacement</b>			<b><u>\$906,322</u></b>

### 2018

ROAD NAME	LENGTH	TYPE WORK	EST. COST
Colony Court (includes roadway/sidewalk/curbing repairs to disturbed areas)	1,800 ft	Replacement	\$ 863,160
Subtotal			\$863,160
Construction Contingency: 10%			<u>\$86,316</u>
Construction Totals			<u>\$949,476</u>
Design: 10%			\$94,948
Construction Administration: 10%			\$94,948
SUPV. & Overhead: 1%			<u>\$9,495</u>
Project Total			<u>\$1,148,865</u>
Inflation Factor: 3% / yr x 5 years			<u>\$182,984</u>
<b>Total Sewer Replacement</b>			<b><u>\$1,331,850</u></b>

### 2020

ROAD NAME	LENGTH	TYPE WORK	EST. COST
To Be Determined			\$250,000
Subtotal			\$250,000
Construction Contingency: 10%			<u>\$25,000</u>
Construction Totals			<u>\$275,000</u>
Design: 10%			\$27,500
Construction Administration: 10%			\$27,500
SUPV. & Overhead: 1%			<u>\$2,750</u>
Project Total			<u>\$332,750</u>
Inflation Factor: 3% / yr x 7 years			<u>\$76,491</u>
<b>Total Sewer Replacement</b>			<b><u>\$409,241</u></b>



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Sewer Improvements**  
 Department: **Public Works - Sewer Fund**  
 Physical Location: **Various**  
 Federal Mandate: **No**  
 State Regulation or Law: **No**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **Policy**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Yes**



### PROJECT DESCRIPTION/JUSTIFICATION

This project represents the ongoing repair or replacement of sewer mains as determined by an evaluation of their condition. Repairs are scheduled the year before a road is overlaid or reconstructed to streamline the paving project. No work is scheduled in FY15 to help ease the significant financial impact of other sewer fund projects. However, work on the collection system resumes in FY16 to correct substantial deficiencies that cannot be addressed using spot repair.

The work in FY16, FY17 and FY18 is scheduled for mains that are not associated with roads. FY16 replaces the portion of the Edgewood Interceptor that is located in a wetland area and is a significant source of infiltration, FY17 corrects deficiencies that have led to sewer overflows in the Perham Street cross country sewer, and FY18 addresses the negative slope in the Colony Court sewer main.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design			68,547	73,192	133,185	27,500	27,500	329,924
Construction/Implementation			837,775	923,582	1,198,665	369,821	381,741	3,711,584
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$906,322</b>	<b>\$996,774</b>	<b>\$1,331,850</b>	<b>\$397,321</b>	<b>\$409,241</b>	<b>\$4,041,508</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve			906,322	996,774		397,321	409,241	2,709,658
Debt Funded					1,331,850			1,331,850
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$906,322</b>	<b>\$996,774</b>	<b>\$1,331,850</b>	<b>\$397,321</b>	<b>\$409,241</b>	<b>\$4,041,508</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
Multi-year

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Sewer Structural Repair/Lining**  
 Department: **Public Works - Sewer Fund**  
 Physical Location: **Various**  
 Federal Mandate: **Clean Water Act; NPDES permit**  
 State Regulation or Law: **RSA 485-A:13**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Yes**



### PROJECT DESCRIPTION/JUSTIFICATION

This project funds an outside contractor to make more than 200 spot repairs to sewer mains to correct deficiencies that were identified through the Priority Inspection Program. Each type of deficiency has been evaluated and a cost was estimated based on the 2011 repair bid. The cost to repair each deficiency ranges from \$2,500 to \$10,500 depending on the location, complexity and type of repair required. Engineering will be performed in-house and locations are based upon the Priority Inspection program ranking system. The project includes funds for engineering, construction and inspection of the construction. In addition to the spot repairs, this project also funds lining in location on roads that are scheduled to be overlaid which have very old sewers.

Hundreds of sewer main structural deficiencies have been identified through the Priority Inspection Program. The deficiencies found in these mains include offset joints, holes, or large cracks that can be corrected through a small spot repair, lining, or the replacement of a short portion of the main. This project funds the repair of deficiencies that were identified in sewer mains that do not require complete replacement, or where the street is scheduled for overlay instead of reconstruction and a smaller repair is appropriate. The program to perform spot sewer main repairs by an outside contractor will allow Public Works staff to prioritize other maintenance functions.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation		154,500	159,135	163,909	168,826	173,891	179,108	999,369
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$154,500</b>	<b>\$159,135</b>	<b>\$163,909</b>	<b>\$168,826</b>	<b>\$173,891</b>	<b>\$179,108</b>	<b>\$999,369</b>
<b>FUNDING</b>								
Current Revenue		154,500	159,135	163,909	168,826	173,891	179,108	\$999,369
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$154,500</b>	<b>\$159,135</b>	<b>\$163,909</b>	<b>\$168,826</b>	<b>\$173,891</b>	<b>\$179,108</b>	<b>\$999,369</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
Ongoing

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **WWTP Gate & Mixer Replacement**  
 Department: **Public Works - Sewer Fund**  
 Physical Location: **420 Airport Road**  
 Federal Mandate: **No**  
 State Regulation or Law: **No**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Yes**



### PROJECT DESCRIPTION/JUSTIFICATION

This project replaces six (6) manually operated gates at the Wastewater Treatment Plant that are used to divert wastewater into different units of the biological treatment process and two (2) mixers that are used to combine the active biomass with incoming waste and keep the mixture from settling out. The gates are twenty eight (28) years old and the harsh operating environment has taken its toll. The metal is corroded, the rubber seals leak, and the gate operators are difficult to move. Two (2) original 30 HP, 2 speed, aerator motors and mixers will be replaced with smaller 3 HP, gear reduction mixers.

When fine bubble aeration was installed in 1998, the mechanical aerators were removed, but the motors and mixing equipment remained to provide flexibility for future treatment scenarios. The mixers have been used in recent years to maximize biological removal of phosphorus, but they are not energy efficient and replacement parts are no longer available. The gates and mixers replaced through this project will be automated and accessible through the WWTP's SCADA system. This project request has been delayed from FY15 to FY17 to reduce cost impact to the Sewer Fund and the project cost was inflated by 3% per year.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design			13,080	50,753				63,833
Construction/Implementation				16,656				16,656
Property/Equip. Acquisition				104,851				104,851
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$13,080</b>	<b>\$172,260</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$185,340</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve	13,080			172,260				185,340
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$13,080</b>	<b>\$0</b>	<b>\$0</b>	<b>\$172,260</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$185,340</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Negligible<\$5,001  
One time

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Blower Replacement**  
 Department: **Public Works - Sewer Fund**  
 Physical Location: **420 Airport Road**  
 Federal Mandate: **No**  
 State Regulation or Law: **No**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Community Sustainability**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Yes**



### PROJECT DESCRIPTION/JUSTIFICATION

This project includes the replacement of six original blowers with more energy efficient equipment. The replacement of the two largest blowers was funded in FY13 and it is expected they will be installed in FY15. The remaining four blowers include two 75 horse power (HP) blowers that aerate the septage holding tanks, grit chamber, and final effluent and two 40 HP blowers that aerate the sludge storage tank.

FY19 funds the replacement of the two 75 HP blowers and FY20 funds the replacement of the two 40HP blowers. The replacement blowers are expected to be more energy efficient than the existing equipment. Installing more efficient equipment is in line with the City's Vision Focus Areas, specifically Focus Area 1 "Fostering Renewable Energy and Efficient use of Resources". The blowers had been scheduled for replacement in FY15 and FY16, but were pushed out because they are in good repair and a recent energy audit showed the energy savings is not as great as had been expected. It is expected the blower condition will dictate their replacement in FY19 and FY20. A multiplier of 3% per year has been added to the estimated replacement cost.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design					66,739			66,739
Construction/Implementation						52,387	53,959	106,346
Property/Equip. Acquisition						121,749	125,401	247,151
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$66,739</b>	<b>\$174,137</b>	<b>\$179,360</b>	<b>\$420,236</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve	61,076	0	0		5,663	174,137	179,360	420,236
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$61,076</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$5,663</b>	<b>\$174,137</b>	<b>\$179,360</b>	<b>\$420,236</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Reduce - will reduce operating costs Ongoing  
**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **WWTP Generator Replacement**  
 Department: **Public Works - Sewer Fund**  
 Physical Location: **Wastewater Treatment Plant**  
 Federal Mandate: **NPDES permit**

State Regulation or Law: **N/A**

Master Plan (CMP) Focus Area: **Quality Built Environment**

CMP Vision/Strategy: **Emergency Preparedness**

Council Initiative: **N/A**

V.O.I.C.E.: **N/A**

Departmental Objective: **To have a reliable supply of emergency power**



### PROJECT DESCRIPTION/JUSTIFICATION

This project replaces the WWTP's standby generator that was installed in 1985. The generator was designed to provide backup power to the Plant's critical equipment so that treatment is able to continue when line power is interrupted. Replacement is recommended in FY20 when the system is 35 years old because its reliability may be compromised as replacement parts become harder to procure. During the engineering phase of the 2013 WWTP Upgrade, the design engineer recommended the generator be upgraded to a 500 KW system when it is replaced so it is large enough to supply emergency power to the Plant's dewatering equipment. This project funds an upgrade to the recommended size.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design						18,375	120,035	138,410
Construction/Implementation								0
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$18,375</b>	<b>\$120,035</b>	<b>\$138,410</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve						18,375	120,035	138,410
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$18,375</b>	<b>\$120,035</b>	<b>\$138,410</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
One time

**PROJECT STATUS:** New Project



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Grit Removal Equipment Rehab**  
 Department: **Public Works - Sewer Fund**  
 Physical Location: **420 Airport Road**  
 Federal Mandate: **No**  
 State Regulation or Law: **No**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Yes**



### PROJECT DESCRIPTION/JUSTIFICATION

This project extends the life of the existing grit removal equipment at the Wastewater Treatment Plant by replacing the clamshell bucket and associated structures. Wastewater flow from the Martell Court Pump Station, Swanzey Pump Station on Route 32, and septage receiving facility are combined in the WWTP's aerated grit chamber. The grit chamber consists of two 40,000 gallons chambers that are designed to allow sand and other inorganic material to settle in the bottom of the channel. A set of diffusers adds air to keep the organic material from settling out in this stage of treatment. Using a clamshell bucket and electric hoist, operators remove grit from the chambers several times a year.

The September 2010 "Evaluation of Phosphorus Removal Alternatives Report" describes deficiencies with the outdated technology of the current grit removal system and recommends a new system be designed to replace the clamshell bucket. The current 28-year old system is an inefficient method of grit removal; the material is odorous and the process is time consuming. A new system could consist of new air diffusers, grit blowers, piping, grit washer classifier, grit pumps, grit conveyance, and ventilation system. The evaluation and selection of a new grit removal system was scheduled for FY18 but has been pushed out to FY29 to reduce the burden of debt service on the Sewer Fund. This project funds significant rehabilitation of the existing equipment and is expected to extend its life by more than 10 years.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation					150,000			150,000
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$150,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$150,000</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve	20,420				129,580			150,000
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$20,420</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$129,580</b>	<b>\$0</b>	<b>\$0</b>	<b>\$150,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
One time

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Permitting Assistance**  
 Department: **Public Works - Sewer Fund**  
 Physical Location: **420 Airport Road**  
 Federal Mandate: **No**  
 State Regulation or Law: **No**  
 Master Plan (CMP) Focus Area: **Unique Natural Environment**  
 CMP Vision/Strategy: **Community Sustainability**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Establish Priorities**  
 Departmental Objective: **Yes**



### PROJECT DESCRIPTION/JUSTIFICATION

This project funds legal and professional assistance for the WWTP's next discharge permit. The WWTP's current discharge permit expired in December 2012 and staff completed the renewal application in June 2012. It is expected the next permit will contain new discharge limits and professional assistance would be used to protect the City's interests during the permitting process.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation		31,000	40,500					71,500
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$31,000</b>	<b>\$40,500</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$71,500</b>
<b>FUNDING</b>								
Current Revenue		31,000	40,500					\$71,500
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$31,000</b>	<b>\$40,500</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$71,500</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
Multi-year

**PROJECT STATUS:** New Project



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **WWTP Roof Replacement**  
 Department: **Public Works - Sewer Fund**  
 Physical Location: **420 Airport Road**  
 Federal Mandate: **No**  
 State Regulation or Law: **No**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Yes**



### PROJECT DESCRIPTION/JUSTIFICATION

This project replaces the 10,000 square foot rubber roof at the Wastewater Treatment Plant. The WWTP's roof was installed when the Plant was built in 1984 and the manufacturer provided a life expectancy of 15-20 years. The roof was evaluated in 2006 and found to be in good condition however rubber deteriorates with age due to the effects of ultraviolet rays and the hydrogen sulfide gas that is emitted from the WWTP's roof top air handlers. The roof will be thirty (30) years old in 2015 and this planned replacement will coincide with the dewatering project when the roof may need to be cut open to allow placement of the new dewatering equipment. The FY15 cost estimate for this work is \$800 a square foot.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design	36,400							36,400
Construction/Implementation		198,380						198,380
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$36,400</b>	<b>\$198,380</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$234,780</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve	36,400	198,380						234,780
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$36,400</b>	<b>\$198,380</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$234,780</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
One time

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **WWTP Sludge Pump Repair**  
 Department: **Public Works - Sewer Fund**  
 Physical Location: **420 Airport Road**  
 Federal Mandate: **No**  
 State Regulation or Law: **No**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Yes**



### PROJECT DESCRIPTION/JUSTIFICATION

This project funds a significant rehabilitation effort to seven (7) positive displacement piston pumps at the Wastewater Treatment Plant. The pumps are used for moving wastewater sludge that has a solids content of 2-6 percent. These pumps were installed in 1985 and are used daily as part of the treatment process. The manufacturer estimates a life of twenty (20) years before replacement is needed. These pumps had been scheduled for replacement in FY18, but this investment will extend their useful life through FY24.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation				52,000				52,000
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$52,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$52,000</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve				52,000				52,000
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$52,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$52,000</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Negligible<\$5,001  
One time

**PROJECT STATUS:** Ongoing CIP





# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Service Water System**  
 Department: **Public Works - Sewer Fund**  
 Physical Location: **420 Airport Road**  
 Federal Mandate: **No**  
 State Regulation or Law: **No**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Yes**



### PROJECT DESCRIPTION/JUSTIFICATION

This project refurbishes the non-potable service water system at the Wastewater Treatment Plant. Non-potable service water is wastewater that has received complete treatment and is suitable for discharge into the river, but is not suitable for drinking. To conserve resources, treated water is filtered then recycled for use in applications when drinking quality water is not required. Heat from the treated water will be recovered through heat pumps that will be installed as part of the FY13 WWTP upgrade. The recovered energy will be used to heat and cool the UV disinfection and septage buildings. The system had been scheduled for replacement in FY19, but this work is expected to extend its life through FY24.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation						65,400		65,400
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$65,400</b>	<b>\$0</b>	<b>\$65,400</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve						65,400		65,400
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$65,400</b>	<b>\$0</b>	<b>\$65,400</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
One time

**PROJECT STATUS:** Ongoing CIP

**CITY OF KEENE, NEW HAMPSHIRE**  
**CAPITAL IMPROVEMENT PROGRAM FY15-FY20**  
**WATER FUND MULTI-YEAR PROJECTIONS**

	ACTUAL FY 11/12	ACTUAL FY 12/13	BUDGET FY 13/14	PROJECTED FY 14/15	PROJECTED FY 15/16	PROJECTED FY 16/17	PROJECTED FY 17/18	PROJECTED FY 18/19	PROJECTED FY 19/20
<b>REVENUES</b>									
Taxes	\$135,192	\$127,236	\$121,700	117,089	110,317	106,600	100,226		
Intergovernmental	79,282	92,945							
Charges for Services	3,641,994	3,768,274	3,603,527	3,727,191	3,805,263	3,892,253	3,882,815	4,053,319	4,339,865
Miscellaneous	39,930	21,370	15,500	15,853	15,968	16,208	16,451	16,698	16,948
Use of Surplus			(191,098)						
<b>TOTAL REVENUES</b>	<b>\$3,896,399</b>	<b>\$4,009,824</b>	<b>\$3,549,629</b>	<b>\$3,860,133</b>	<b>\$3,931,548</b>	<b>\$4,015,061</b>	<b>\$3,999,493</b>	<b>\$4,070,017</b>	<b>\$4,356,813</b>
<b>EXPENSES</b>									
Public Works Water	\$803,998	\$790,375	\$787,339	\$787,566	\$801,742	\$816,173	\$830,864	\$845,820	\$866,965
Water Main & Trench Repairs	201,835	202,415	231,016	\$234,944	\$239,173	\$243,478	\$247,861	\$252,322	\$258,631
Water Supply	102,251	129,724	223,669	\$227,694	\$231,793	\$235,965	\$240,212	\$244,536	\$250,649
Hydrants	128,246	89,043	142,234	\$143,514	\$146,097	\$148,727	\$151,404	\$154,129	\$157,982
Meters	275,633	227,896	223,381	\$227,402	\$231,495	\$235,662	\$239,904	\$244,222	\$250,328
Water Services	71,145	60,539	80,189	\$81,632	\$83,102	\$84,598	\$86,120	\$87,671	\$89,862
Water Treatment Facility	525,816	517,978	610,484	\$610,514	\$621,503	\$632,690	\$644,079	\$655,672	\$672,064
Laboratory	196,697	188,926	234,089	\$228,391	\$232,502	\$236,687	\$240,948	\$245,285	\$251,417
Maintenance	128,821	113,313	141,822	\$144,059	\$146,652	\$149,292	\$151,979	\$154,715	\$158,583
Depreciation Expense	800,707	851,819	819,000	860,380	877,588	895,139	913,042	931,303	\$959,242
Debt Service - CURRENT	70,468	103,430	56,405	44,643	35,848	28,061	20,825	15,533	12,555
Debt Service - PROJECTED								17,885	33,982
Subtotal	3,305,619	3,275,457	3,549,629	3,590,739	3,647,495	3,706,472	3,767,238	3,849,093	3,962,260
MINOR CAPITAL	333,401	145,081	0	0	0	0	0	0	0
<b>TOTAL EXPENSES</b>	<b>\$3,639,020</b>	<b>\$3,420,538</b>	<b>3,549,629</b>	<b>\$3,590,739</b>	<b>\$3,647,495</b>	<b>\$3,706,472</b>	<b>\$3,767,238</b>	<b>\$3,849,093</b>	<b>\$3,962,260</b>
<b>NET REVENUE (EXPENSE)</b>	<b>257,379</b>	<b>589,286</b>	<b>0</b>	<b>269,394</b>	<b>284,053</b>	<b>308,589</b>	<b>232,255</b>	<b>220,924</b>	<b>394,553</b>

**WATER FUND INCREASE**      10.38%      -6.00%      3.77%      1.16%      1.58%      1.62%      1.64%      2.17%      2.94%

**This section adjusts Net Revenue (Expense) to include uses of cash not recorded as expense, and to exclude expenses that do not require the use of cash. The purpose of the adjustment is to reflect the projected uses of cash from FY 15 thru FY 20:**

Add Back: Depreciation	\$860,380	\$877,588	\$895,140	\$913,043	\$931,303	\$959,243
State Aid Grant Principal Receipts						
Debt Svc Principal (current debt) (see Note 2)	(326,514)	(326,984)	(275,151)	(275,571)	(150,588)	(153,155)
Debt Svc Principal (new debt)						(102,203)
Tfrs to Capital Reserve (see Note 2)	(425,000)	(475,000)	(450,000)	(550,000)	(525,000)	(500,000)
Capital Outlays (see Note 2)	(378,260)	(359,657)	(478,578)	(319,727)	(476,639)	(588,439)
<b>Projected Annual Cash Surplus (Deficit)</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Note 1: Net Revenue (Expense) indicates the anticipated increase (decrease) in retained earnings at the end of the year.

Note 2: Net revenue is anticipated to pay for operations and capital improvements in future and current years.

Note 3: Debt Service principal, capital outlays, state aid grant principal receipts, and transfers to reserves are balance sheet transactions, and are not included in expenses.

Note 4: Budgeted revenues exclude Use of Surplus / Fund Balance.

Note 5: Additional revenue raised in FY 13-20 to cover capital outlays and debt service in FY 13-20 and future years.

Note 6: Intergovernmental Revenues in FY 2012 and 2013 include ARRA revenue of \$73,03 and \$91,136, respectively.

**Billing Projections**

	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20
Combined Water and Sewer Utility Billing Projections: Residential property with a 5/8" connection and consumption of 27 HCF (hundred cubic feet) per quarter						
Projected Quarterly Bill	\$ 304.68	\$ 322.40	\$ 336.35	\$ 341.92	\$ 351.50	\$ 357.54
Change from Prior Year	\$ 9.72	\$ 17.72	\$ 13.95	\$ 5.57	\$ 9.58	\$ 6.04
Percentage change	3.30%	5.82%	4.33%	1.66%	2.80%	1.72%
Water Utility Billing Projections: Residential property with a 5/8" connection and consumption of 27 HCF (hundred cubic feet) per quarter						
Projected Quarterly Bill	\$ 113.43	\$ 116.23	\$ 121.00	\$ 125.72	\$ 131.88	\$ 135.82
Change from Prior Year	\$ 4.13	\$ 2.80	\$ 4.77	\$ 4.72	\$ 6.16	\$ 3.94
Percentage change	2.22%	2.47%	4.10%	3.90%	4.90%	2.99%

# CITY OF KEENE, NEW HAMPSHIRE

## Water Fund 2015 - 2020 Capital Improvement Program Summary

Dept.	Project Name	2014/2015	2015/2016	2016/2017	2017/2018	2018/2019	2019/2020	TOTAL
Public Works	Capital Reserve: Water Treatment Facility	\$ 50,000	\$ 75,000	\$ 75,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000
Public Works	Reserve: Water Infrastructure	375,000	400,000	375,000	450,000	425,000	400,000	2,425,000
Public Works	Chapman Rd Booster Station Generator				13,250	107,463		120,713
Public Works	Chlorine Injection Systems	14,272	95,920	83,657	-	-	-	193,849
Public Works	Dam Improvements		1,570,132	122,987	-	1,022,025	-	2,715,144
Public Works	Laboratory Equipment Replacement		36,275					36,275
Public Works	Water Distribution Improvements	436,326	363,605	385,748	152,401	397,321	409,241	2,144,642
Public Works	Water Main Cleaning and Lining	212,180	218,545	225,102	231,855	238,810	245,975	1,372,467
Public Works	Water Tank Mixers	79,568	-	84,413	-	-	-	163,981
Public Works	Water Valve Replacement	80,594	83,012	85,406	87,872	90,508	93,223	520,615
Public Works	Watershed Management	67,500	-	-	-	-	-	67,500
Public Works	WTF PLC Replacement	62,565	-	-	-	-	-	62,565
Public Works	WTF Instrumentation Upgrade	34,714	-	-	-	-	-	34,714
<b>TOTAL CAPITAL PROGRAM</b>		<b>\$ 1,412,719</b>	<b>\$ 2,842,489</b>	<b>\$ 1,437,313</b>	<b>\$ 1,035,378</b>	<b>\$ 2,381,127</b>	<b>\$ 1,248,439</b>	<b>\$ 10,357,465</b>

### PROJECT FUNDING DETAIL

#### Reserve Funded Projects

Public Works	Dam Improvements	\$ -	\$ 850,000	\$ -	\$ -	\$ -	\$ -	\$ 850,000
Public Works	Chapman Rd Booster Station Generator				\$ 13,250	\$ 107,463		\$ 120,713
Public Works	Laboratory Equipment Replacement		\$ 36,275					\$ 36,275
Public Works	WTF PLC Replacement	62,565	-	-	-	-	-	62,565
Public Works	WTF Instrumentation Upgrade	34,714	-	-	-	-	-	34,714
Public Works	Water Distribution Improvements	300,000	300,000	300,000	152,401	250,000	150,000	1,452,401
<b>Total: Reserve Funded Projects</b>		<b>\$ 397,279</b>	<b>\$ 1,186,275</b>	<b>\$ 300,000</b>	<b>\$ 165,651</b>	<b>\$ 357,463</b>	<b>\$ 150,000</b>	<b>\$ 2,556,668</b>

#### Projects Funded with Debt

Public Works	Dam Improvements	\$ -	\$ -	\$ -	\$ -	\$ 1,022,025	\$ -	\$ 1,022,025
<b>Total: Projects Funded with Debt</b>		<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,022,025</b>	<b>\$ -</b>	<b>\$ 1,022,025</b>

#### Capital Reserve Appropriations

Public Works	Capital Reserve: Water Treatment Facility	\$ 50,000	\$ 75,000	\$ 75,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000
Public Works	Reserve: Water Infrastructure	375,000	400,000	375,000	450,000	425,000	400,000	2,425,000
<b>Total: Capital Reserve Appropriations</b>		<b>\$ 425,000</b>	<b>\$ 475,000</b>	<b>\$ 450,000</b>	<b>\$ 550,000</b>	<b>\$ 525,000</b>	<b>\$ 500,000</b>	<b>\$ 2,925,000</b>

#### Projects Funded with State Grant

Public Works	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total: Projects Funded with State Grant</b>		<b>\$ -</b>						

#### Projects Funded with Cash

Public Works	Chlorine Injection Systems	\$ 14,272	\$ 95,920	\$ 83,657	\$ -	\$ -	\$ -	\$ 193,849
Public Works	Dam Improvements	-	720,132	122,987	-	-	-	843,119
Public Works	Water Distribution Improvements	136,326	63,605	85,748	-	147,321	259,241	692,241
Public Works	Water Main Cleaning and Lining	212,180	218,545	225,102	231,855	238,810	245,975	1,372,467
Public Works	Water Valve Replacement	80,594	83,012	85,406	87,872	90,508	93,223	520,615
Public Works	Watershed Management	67,500	-	-	-	-	-	67,500
Public Works	Water Tank Mixers	79,568	-	84,413	-	-	-	163,981
<b>Total: Projects Funded with Cash</b>		<b>\$ 590,440</b>	<b>\$ 1,181,214</b>	<b>\$ 687,313</b>	<b>\$ 319,727</b>	<b>\$ 476,639</b>	<b>\$ 598,439</b>	<b>\$ 3,853,772</b>

#### Subtotal: Uses of Cash

(Capital Reserve Appropriations plus Projects Funded with Cash)

<b>TOTAL CAPITAL PROGRAM</b>	<b>\$ 1,412,719</b>	<b>\$ 2,842,489</b>	<b>\$ 1,437,313</b>	<b>\$ 1,035,378</b>	<b>\$ 2,381,127</b>	<b>\$ 1,248,439</b>	<b>\$ 10,357,465</b>
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#### New cash Requirement FY 15-20: reconciliation

Total: Uses of cash	\$ 1,015,440	\$ 1,656,214	\$ 1,137,313	\$ 869,727	\$ 1,001,639	\$ 1,098,439	\$ 6,778,772
Use of Retained earnings: Water Fund							
Dam Improvement: FY 13 reserve authorization		(50,000)					(50,000)
Dam Improvements		(670,132)	(122,987)				(793,119)
Water Main Cleaning & Lining (FROM 05063)	(212,180)	(37,820)					(250,000)
Water Distribution Improvements		(63,605)	(85,748)				(149,353)
<b>New Funds needed</b>	<b>\$ 803,260</b>	<b>\$ 834,657</b>	<b>\$ 928,578</b>	<b>\$ 869,727</b>	<b>\$ 1,001,639</b>	<b>\$ 1,098,439</b>	<b>\$ 5,536,300</b>

## Water Fund 2015 - 2020 Capital Improvement Program Debt Summary

	<u>FY15</u>	<u>FY16</u>	<u>FY17</u>	<u>FY18</u>	<u>FY19</u>	<u>FY20</u>
Existing and Authorized Debt	\$1,944,953	\$1,618,438	\$1,291,454	\$1,016,303	\$740,732	\$1,612,170
New Issues Proposed	-	-	-	-	1,022,025	-
Principal Paid	(326,514)	(326,984)	(275,151)	(275,571)	(150,588)	(255,357)
<b>Total Existing Debt &amp; Issues Proposed</b>	<b>\$1,618,438</b>	<b>\$1,291,454</b>	<b>\$1,016,303</b>	<b>\$740,732</b>	<b>\$1,612,170</b>	<b>\$1,356,812</b>

	<u>Issue</u>	<u>Term</u>	<u>FY15</u>	<u>FY16</u>	<u>FY17</u>	<u>FY18</u>	<u>FY19</u>	<u>FY20</u>
<b>Existing &amp; Authorized Debt Service (P &amp; I)</b>			\$371,157	\$362,832	\$303,212	\$296,396	\$166,121	\$165,710
<b><u>Proposed Debt Service CIP FY15</u></b>								
N/A								
<b><u>Proposed Debt Service CIP FY16</u></b>								
N/A								
<b><u>Proposed Debt Service CIP FY17</u></b>								
N/A								
<b><u>Proposed Debt Service CIP FY18</u></b>								
N/A								
<b><u>Proposed Debt Service CIP FY19</u></b>								
Dam Improvements	1,022,025	10					17,885	136,185
<b><u>Proposed Debt Service CIP FY20</u></b>								
N/A								
<b>Total CIP15-20 Debt Service Proposed</b>			0	0	0	0	17,885	136,185
<b>Total Projected Debt Service: Water Fund</b>			\$371,157	\$362,832	\$303,212	\$296,396	\$184,007	\$301,894

## CAPITAL RESERVE -- WATER TREATMENT FACILITY

This reserve is a mechanism to set aside funds for replacement or upgrade of existing water treatment systems and equipment. The various water treatment components are listed below and have an estimated present replacement/installation cost of \$12,718,382. The six-year requested appropriation for the reserve is \$500,000. Improvements totaling \$133,544 are planned. Combined with the projected balance of \$454,151 at the end of FY14 and projected interest earnings of \$9,221, the projected balance of the reserve at the end of FY20 will be approximately \$829,818. This represents approximately 6.5% of the present replacement cost of the Water Treatment Facility equipment.

Equipment	Year Constructed	Expected Life (years)	Estimated Replace/Install Date	Present Replace/Install Cost
Blowers and Backwash Pumps *	1993	10-15	2023	\$303,288
Emergency Generator (2) **	1997	20	2021	\$243,823
Liquefied Petroleum Tank	1993	20	2020	\$31,801
Liquefied Petroleum Tank	1993	20	2020	\$31,801
Turbidity Analyzers	1993	20	2023	\$28,386
Total Organic Carbon (TOC) Analyzer	2003	10	2015	\$34,714
Air Conditioner	1993	10-15	2020	\$27,038
Compressors (2)	1992	30	2023	\$22,057
Filter Tanks/Media	1992	30	2022	\$218,371
Programmable Logic Controllers	1993	20	2014-2015	\$76,240
Processing Pipe	1992	30	2022	\$3,400,507
Motor Control Center	1993	30	2023	\$119,477
Buildings, Systems, and Equipment	1993	50	2043	\$7,605,173
Hydropower Generators	2011	50	2061	\$575,706
<b>Total</b>				<b>\$ 12,718,382</b>

**NOTE:**

\* These pumps are not used often, so the replacement date is pushed out

\*\* This unit is in good running condition

**Details of the expenditures from the Water Treatment Facility Capital Reserve Fund - Years 15 through 20**

<b>FY15</b>	\$	62,565.00	WTF PLC Replacement
	\$	34,714.00	WTF Instrumentation Upgrade (TOC analyzer)
<b>FY16</b>	\$	36,275.00	Lab Equipment: Atomic Absorption Spectrophotometer
<b>Total</b>	\$	133,554.00	



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Capital Reserve - WTF**  
 Department: **Public Works - Water Fund**  
 Physical Location: **555 Roxbury Road**  
 Federal Mandate: **no**  
 State Regulation or Law: **no**  
 Master Plan (CMP) Focus Area: **Vibrant Economy**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **Policy**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Yes**



### PROJECT DESCRIPTION/JUSTIFICATION

This capital reserve account is for funding major (planned and unplanned) repairs and systems replacement at the Water Treatment Facility (WTF). The Municipal Wastewater Financial Management handbook recommends that a reserve account be used to provide funds for the planned or unplanned replacement of major pieces of equipment or building components. The use of this type of account helps the municipality stabilize cash flows for project funding through regular deposits and act as a rainy day fund to provide funding in the case of emergency expenditure that cannot be absorbed by the regular operating budget. The City of Keene works to maintain the WTF capital reserve fund balance at 3-5% of the approximate current replacement value of the WTF assets.

The City Council's fiscal policy establishes Capital Reserves, under State of NH law invested by the Trustees of Trust Funds, for specific purposes including construction, reconstruction, or acquisition of a capital improvement or capital equipment.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation								0
Property/Equip. Acquisition		97,279	36,275					133,554
<b>TOTAL</b>	<b>\$0</b>	<b>\$97,279</b>	<b>\$36,275</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$133,554</b>
<b>FUNDING</b>								
Current Revenue	454,151	50,000	75,000	75,000	100,000	100,000	100,000	\$954,151
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources		1,260	1,208	1,308	1,561	1,815	2,069	9,221
<b>TOTAL</b>	<b>\$454,151</b>	<b>\$51,260</b>	<b>\$76,208</b>	<b>\$76,308</b>	<b>\$101,561</b>	<b>\$101,815</b>	<b>\$102,069</b>	<b>\$963,372</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
Ongoing

**PROJECT STATUS:** Ongoing CIP

## CAPITAL RESERVE -- WATER INFRASTRUCTURE

This reserve is to set aside funds for replacement or upgrade of existing water infrastructure, systems, and equipment. The various water infrastructure components are listed below and have an estimated present replacement cost of approximately \$100,397,613. The six-year requested appropriation for the reserve is \$2,425,000, and \$2,423,114 of improvements are planned. Combined with the projected balance of \$1,423,657 at the end of FY14 and project interest earnings of \$23,159, the projected balance of the reserve at the end of FY20 will be approximately \$1,448,702. This represents approximately 1.4% of the present replacement cost of the water infrastructure.

Facility	Year Constructed	Expected Life (years)	Estimated Replace/Install Date	Present Replace/Install Cost
Babbidge Dam	1931	100	Rehab in FY16	\$2,581,291
0.1 MG concrete tank (Drummer Hill)	1988	100	2088	\$235,649
0.2 MG concrete tank (Chapman Road)	1993	100	2093	\$422,575
0.375 MG concrete tank (Black Brook)	1996	100	2096	\$613,821
1.5 MG concrete tank (Beech Hill)	1924	100	2024	\$2,032,406
3 MG Steel tank (Beech Hill)	1962	75	2037	\$4,064,811
Black Brook Booster Station	1996	50	2046	\$356,474
Branch Road Pressure Reducing Valve	1993	50	2043	\$36,409
Chapman Road Booster Station	1993	50	2043	\$415,559
Court Street Well #2	1964	40	2026	\$487,987
Court Street Well #3	1965	40	2027	\$408,645
Court Street Well #4	1977	40	2021	\$409,056
Court Street Wells Complex	1977	40	2021	\$107,588
Drummer Hill Booster Station	1988	50	2038	\$202,946
Fox Circle Booster Station*	1983	50	2033	\$186,047
Glen Road Booster Station	1983	50	2033	\$205,873
Roxbury Pressure Reducing Valve	1993	50	2043	\$16,259
West Street Well #1	1991	40	2031	\$249,320
Woodward Dam	1910	100	Rehab in FY19	\$1,393,897
<b>TOTAL FACILITIES</b>				<b>\$14,426,613</b>
* 101 miles of water distribution system	1890 through present	50-75	ongoing	\$85,971,000
<b>TOTAL SYSTEM VALUE</b>				<b>\$100,397,613</b>

**NOTE:**

Expected life for structures is 50 years. The various equipment components have an expected life of 10-15 yrs. The expected life is the recommendation from the equipment manufacturer. The actual life of a piece of equipment can vary depending on use and maintenance.

\* See Water Distribution Improvements project for planned replacements. Replacement cost is estimated in the 2003 infrastructure report.

**Details of the expenditures from the Water Treatment Facility Capital Reserve Fund - Years 15 through 20**

<b>FY15</b>	\$ 300,000	Water Distribution Improvements
<b>FY16</b>	\$ 300,000	Water Distribution Improvements
	\$ 850,000	Construction of dam improvements
<b>FY17</b>	\$ 300,000	Water Distribution Improvements
<b>FY18</b>	\$ 152,401	Water Distribution Improvements
	\$ 13,250	Chapman Road Booster Station Generator design
<b>FY19</b>	\$ 107,463	Chapman Road Booster Station Construction
	\$ 250,000	Water Distribution Improvements
<b>FY20</b>	\$ 150,000	Water Distribution Improvements
<b>Total</b>	<b>\$ 2,423,114</b>	



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Cap Reserve Water Infrastructure**  
 Department: **Public Works - Water Fund**  
 Physical Location: **Various**  
 Federal Mandate: **No**  
 State Regulation or Law: **No**  
 Master Plan (CMP) Focus Area: **Vibrant Economy**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **Policy**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Yes**



### PROJECT DESCRIPTION/JUSTIFICATION

This capital reserve account is for funding major (planned and unplanned) repairs and systems replacement in the Water Infrastructure. The Municipal Wastewater Financial Management handbook recommends that a reserve account be used to provide funds for the planned or unplanned replacement of major pieces of equipment or building components. The use of this type of account helps the municipality stabilize cash flows for project funding through regular deposits and act as a rainy day fund to provide funding in the case of emergency expenditure that cannot be absorbed by the regular operating budget. The City of Keene works to maintain the Infrastructure capital reserve fund balance at 3-5% of the approximate current replacement value of the Infrastructure assets.

The City Council's fiscal policy establishes Capital Reserves, under State of NH law invested by the Trustees of Trust Funds, for specific purposes including construction, reconstruction, or acquisition of a capital improvement or capital equipment.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation		300,000	1,150,000	300,000	152,401	250,000	150,000	2,302,401
Property/Equip. Acquisition					13,250	107,463		120,713
<b>TOTAL</b>	<b>\$0</b>	<b>\$300,000</b>	<b>\$1,150,000</b>	<b>\$300,000</b>	<b>\$165,651</b>	<b>\$357,463</b>	<b>\$150,000</b>	<b>\$2,423,114</b>
<b>FUNDING</b>								
Current Revenue	1,423,657	375,000	400,000	375,000	450,000	425,000	400,000	\$3,848,657
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources		4,497	4,758	2,832	3,214	3,871	3,987	23,159
<b>TOTAL</b>	<b>\$1,423,657</b>	<b>\$379,497</b>	<b>\$404,758</b>	<b>\$377,832</b>	<b>\$453,214</b>	<b>\$428,871</b>	<b>\$403,987</b>	<b>\$3,871,816</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Chapman Water Booster Generator**  
 Department: **Public Works - Water Fund**  
 Physical Location: **Roxbury Road**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Emergency Preparedness**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Yes**



### PROJECT DESCRIPTION/JUSTIFICATION

The Chapman Road Booster Station provides water to the storage tank located on Chapman Road. In the event of a power outage, 60 customers would continue to be supplied with water from the tank, however without power, the pumps will not run to refill the tank. The current emergency plan is to tow a portable backup generator to the site as needed, but the remote location and steep access road make this a difficult and time-intensive task. This project purchases and installs a new backup generator and automatic transfer switch to supply power during an outage.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design					13,250	107,463		120,713
Construction/Implementation								0
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$13,250</b>	<b>\$107,463</b>	<b>\$0</b>	<b>\$120,713</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve					13,250	107,463		120,713
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$13,250</b>	<b>\$107,463</b>	<b>\$0</b>	<b>\$120,713</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
One time

**PROJECT STATUS:** New Project

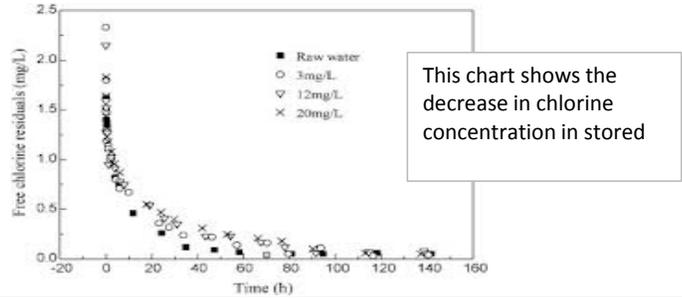


# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Chlorine Injection Stations**  
 Department: **Public Works - Water Fund**  
 Physical Location: **Various**  
 Federal Mandate: **No**  
 State Regulation or Law: **No**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Yes**



This chart shows the decrease in chlorine concentration in stored

### PROJECT DESCRIPTION/JUSTIFICATION

This project includes a FY14 evaluation of the water quality impacts, risks, and benefits of injecting chlorine directly into the water storage tanks. As appropriate, FY15 funds the design of the chlorine injection system for Drummer Hill with construction in FY16. FY16 funds the design of the injection system for Black Brook with construction in FY17. The injection stations would include a small building that houses a chlorine tank, pump, electrical equipment and online monitoring equipment that would be tied into the SCADA system. This system would allow the water operator to be able to meter and trend the residual chlorine levels on SCADA and remotely increase or decrease the chlorine dose to respond to water quality issues.

To maintain water quality in water storage tanks, operators strike a balance between the residual chlorine concentration and the level of disinfection byproducts that are created as water is stored. Because the water tanks are sized for fire protection, water can remain in the tank for several days before it is used and during this time the residual chlorine can dissipate or form regulated byproducts. Today, in order to increase the chlorine concentration, Water treatment operators scale the tank and drop in chlorine tablets. This results in an uneven chlorine dose and residual; higher after the tablets are first dropped in and lower as they dissolve. Chlorine injection stations would result in a more consistent dose and more predictable water quality.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design	20,000	14,272	14,700					48,972
Construction/Implementation			19,720	20,312				40,032
Property/Equip. Acquisition			61,500	63,345				124,845
<b>TOTAL</b>	<b>\$20,000</b>	<b>\$14,272</b>	<b>\$95,920</b>	<b>\$83,657</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$213,849</b>
<b>FUNDING</b>								
Current Revenue	20,000	14,272	95,920	83,657				\$213,849
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$20,000</b>	<b>\$14,272</b>	<b>\$95,920</b>	<b>\$83,657</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$213,849</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Negligible<\$5,001 Ongoing

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Dam Improvements**  
 Department: **Public Works - Water Fund**  
 Physical Location: **Various**  
 Federal Mandate: **No**  
 State Regulation or Law: **Yes - letter of deficiency (admin rule)**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Yes - letter of deficiency (admin rule)**



### PROJECT DESCRIPTION/JUSTIFICATION

The Dam Master Plan for the 1910-era Woodward Dam and the 1931-era Babbidge Dam was funded in FY11 and completed in FY12. The Master Plan addressed Letters of Deficiency (LOD) from NH Department of Environmental Services citing concerns for potential failure of the dams in a 100-year flood event. The LOD requires the City to submit a plan to address deficiencies including stabilization of the dams and an increase in storage capacity. Both dams are classified as "high hazard" indicating that their failure could result in the loss of life downstream. Between them, the dams store more than 600 million gallons of water, more than a 6-month supply for the City. The failure of one or both of these 80 year old dams would cause a significant impact to the City's water supply because the existing wells cannot meet the City's entire water demand.

This project includes the design and permitting of Babbidge Dam's improvements in FY14 and construction in FY16. Design and permitting of Woodward Dam are expected in FY17 and construction in FY19. These two dam projects are included in the Water Fund because they are part of the water supply system. The City's other dam projects are funded through the General Fund. An impact to the electricity and chemical lines of the operating budget will be seen in FY16 and FY19 because increased pumping of well water will be required while the reservoirs are under construction. During the design process, other operational modifications that are necessary to continue uninterrupted water supply will be addressed. This project will also complete the reconstruction of the intake structure at Woodward Dam.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design	150,000			122,987				272,987
Construction/Implementation			1,570,132			1,022,025		2,592,157
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$150,000</b>	<b>\$0</b>	<b>\$1,570,132</b>	<b>\$122,987</b>	<b>\$0</b>	<b>\$1,022,025</b>	<b>\$0</b>	<b>\$2,865,144</b>
<b>FUNDING</b>								
Current Revenue			670,132	122,987				\$793,119
Capital Reserve	200,000		850,000					1,050,000
Debt Funded						1,022,025		1,022,025
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$200,000</b>	<b>\$0</b>	<b>\$1,520,132</b>	<b>\$122,987</b>	<b>\$0</b>	<b>\$1,022,025</b>	<b>\$0</b>	<b>\$2,865,144</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Moderate \$50,001 to \$100,000  
One time

**PROJECT STATUS:** Ongoing CIP

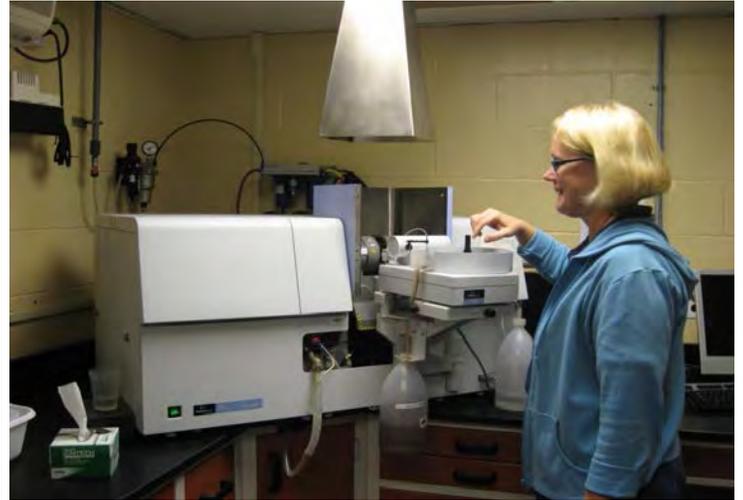


# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Laboratory Equipment**  
 Department: **Public Works - Water Fund**  
 Physical Location: **420 Airport Road**  
 Federal Mandate: **N/A**  
 State Regulation or Law: **N/A**  
 Master Plan (CMP) Focus Area: **N/A**  
 CMP Vision/Strategy: **N/A**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **yes**



### PROJECT DESCRIPTION/JUSTIFICATION

This project funds the replacement of the Laboratory's Atomic Absorption Spectrophotometer (AA) that is used to test trace metals. As part of the Laboratory's equipment replacement schedule, the AA is due for replacement in FY16. This instrument was purchased and installed in 2005 and is approaching the end of its useful life as evidenced through increased downtime caused by failure of its electrical components. Analysis of wastewater, septage, surface water, groundwater, and drinking water that is performed in-house using this instrument would cost the City approximately \$32,850 annually if sent out for analysis. The 2013 instrument replacement cost is \$66,500. This cost has been adjusted by 3% each year through FY16, for an adjusted cost of \$70,550 which is split between the water and sewer funds. \$1,000 is allocated in each fund for installation.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation			1,000					1,000
Property/Equip. Acquisition			35,275					35,275
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$36,275</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$36,275</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve			36,275					36,275
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$36,275</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$36,275</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** New Project

## Water and Sewer Improvements

The City's strategy for identifying and prioritizing water and sewer improvements in conjunction with roadwork for this Capital Improvement Program is the Road Overlay Program. It has evolved from its "Dig the Road Once" philosophy as the City's obligation under the 2004 Administrative Order requiring the replacement of specific sewers is complete.

A 2012 assessment of the City's paved streets used the pavement condition and traffic volume to develop a numeric rating. This rating was used to prioritize streets for overlay and streets were grouped into neighborhoods to gain efficiency in construction services and to improve the overall aesthetics of an area.

Before a street is overlaid, its water, sewer, and drain infrastructure is evaluated and repairs/improvements are planned for the year before the overlay is scheduled to avoid digging up a freshly paved road. The water, sewer, and drain evaluations are performed in different ways.

- *Sewers are evaluated according to their condition and capacity.*
  - Condition ratings were generated as part of the Priority Inspection Program that was performed between FY06 and FY11. The results of these inspections have been cataloged and deficiencies that require spot repair, short length lining, or complete lining have been identified.
  - Capacity issues have been identified using the computer model of the collection system. Inflow and infiltration is being evaluated in FY14 and will become an additional factor in future evaluations.
  
- *Water main evaluations are based on age, pressure/volume, and repair frequency.*
  - While no video is available that shows the condition of the water mains, the age and material are often used as clues to their conditions. As an example, mains that were constructed between 1930 and the 1970's were made of bituminous cast iron pipe (universal pipe) and are prone to leaks. Mains that do not have a cement lining can build up a hard layer of minerals that cannot be removed through the normal flushing programs.
  - The Department operational records are used to identify mains that have experienced a number of breaks.
  - The volume of water the main can transport, and what the relationship is of a given section of main to the rest of the system is evaluated using the water distribution model. If a section does not provide the anticipated volume or pressure, a piece can be cut out and visually inspected to determine the amount of material buildup.
  
- *The capacity of storm drains is evaluated by the contributing storm drainage area.*
  - If capacity is not adequate the drains are upsized by excavating and replacing the drain with a larger size pipe.
  - A storm drain model that will assist the evaluation of capacity is currently being developed.

Separate programs for the replacement of mainline water valves and the repair of sewers that are not associated with other road work have been created to keep the focus on this catch-up repair work.

**WATER DISTRIBUTION IMPROVEMENTS**

The 2013 Updated Water Capital Infrastructure Plan study recommended that a number of major water mains should be upgraded from their current 6-inch and 8-inch sizes to 10-inch and 12- inch. In addition, improvements will be made to Glen Road/Darling Rd/Mountainview Rd area to improve water pressure. These upgrades will provide additional water flow and assist in addressing pressure problems in the outlying areas of the City. In addition to the upgrades of the identified mains, funds from this project will be used for other unplanned improvements as required in the distribution system. and to replace 6" mains with a minimum of 8" diameter mains to improve water flow and water pressures

**2015**

<u>LOCATION</u>	<u>LENGTH</u>	<u>EST. COST**</u>
Watermain Replacement- Allen Court (6" to 8")	1,100 ft	\$436,326

\*\* All costs include 10% for construction contingencies, 10% for engineering design, 10% for construction administration, 1% for supervision and 3% inflation per year

<b>Project Total</b>	<b>\$436,326</b>
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**2017**

<u>LOCATION</u>	<u>LENGTH</u>	<u>EST. COST**</u>
Glen Rd Booster Pumps and Darling Rd/Mountainview Rd Check Valves (low pressure improvements)		\$385,748

\*\* All costs include 10% for construction contingencies, 10% for engineering design, 10% for construction administration, 1% for supervision and 3% inflation per year

<b>Project Total</b>	<b>\$385,748</b>
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**2019**

<u>LOCATION</u>	<u>LENGTH</u>	<u>EST. COST</u>
To be determined		\$397,321

\*\* All costs include 10% for construction contingencies, 10% for engineering design, 10% for construction administration, 1% for supervision and 3% inflation per year

<b>Project Total</b>	<b>\$397,321</b>
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**2016**

<u>LOCATION</u>	<u>LENGTH</u>	<u>EST. COST**</u>
Watermain Replacement Hurricane Rd (Arch St to Hastings Ave, 8" to 12")	1,000 ft	\$363,605

\*\* All costs include 10% for construction contingencies, 10% for engineering design, 10% for construction administration, 1% for supervision and 3% inflation per year

<b>Project Total</b>	<b>\$363,605</b>
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**2018**

<u>LOCATION</u>	<u>LENGTH</u>	<u>EST. COST**</u>
As part of Colony Court Sewer Project; Replace Water Main on Wright St	580 ft	\$152,401

\*\* All costs include 10% for construction contingencies, 10% for engineering design, 10% for construction administration, 1% for supervision and 3% inflation per year

<b>Project Total</b>	<b>\$152,401</b>
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**2020**

<u>LOCATION</u>	<u>LENGTH</u>	<u>EST. COST</u>
To be determined		\$409,241

\*\* All costs include 10% for construction contingencies, 10% for engineering design, 10% for construction administration, 1% for supervision and 3% inflation per year

<b>Project Total</b>	<b>\$409,241</b>
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# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Water Distribution Improvements**  
 Department: **Public Works - Water Fund**  
 Physical Location: **Various**  
 Federal Mandate: **No**  
 State Regulation or Law: **No**  
 Master Plan (CMP) Focus Area: **Healthy Community**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **Policy**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Yes**



### PROJECT DESCRIPTION/JUSTIFICATION

The work funded by this project includes the replacement of water mains as part of the City's infrastructure program. Depending on their age, condition, and size, water mains may be replaced when a roadway is rehabilitated or reconstructed. This is done to minimize the disturbance of a newly reconstructed road in the near future due to a broken water main and to upsize inadequately sized mains. Mains are also replaced when work by any other utility project requires its relocation. As they are replaced, the mains are upsized to increase pressure and flow and to maintain good water quality. The majority of water main replacement includes replacing the 6" mains with a main that is at least 8" in diameter on streets that are undergoing rehabilitation. The goal is to perform water main, valve, and hydrant replacement the year prior to the roadway work.

FY17 includes water system improvements to address low water pressure issues in the Glen Road high service zone by increasing the booster pump sizes and relocating check valves in the Darling Rd/Mountainview Rd area.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design		36,060	30,050	31,880	10,865	32,836	33,822	175,513
Construction/Implementation		400,266	333,555	353,868	141,536	364,485	375,419	1,969,129
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$436,326</b>	<b>\$363,605</b>	<b>\$385,748</b>	<b>\$152,401</b>	<b>\$397,321</b>	<b>\$409,241</b>	<b>\$2,144,642</b>
<b>FUNDING</b>								
Current Revenue		136,326	63,605	85,748		147,321	259,241	\$692,241
Capital Reserve		300,000	300,000	300,000	152,401	250,000	150,000	1,452,401
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$436,326</b>	<b>\$363,605</b>	<b>\$385,748</b>	<b>\$152,401</b>	<b>\$397,321</b>	<b>\$409,241</b>	<b>\$2,144,642</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Water Main Cleaning and Lining**  
 Department: **Public Works - Water Fund**  
 Physical Location: **Various**  
 Federal Mandate: **No**  
 State Regulation or Law: **No**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Yes**



### PROJECT DESCRIPTION/JUSTIFICATION

This project includes renewing old water mains through mechanical cleaning and lining to extend their life and improve water quality. Lining is a rehabilitation process which may be more cost effective than traditional excavation and replacement. Cleaning restores the interior condition of the pipe, and lining provides a protection against future deterioration and, depending on the lining technique, may also provide structural integrity. Lining allows improvements to the main while avoiding disruption to the street surfaces, traffic, and customer services which can lead to increased cost and inconvenience. Lining is planned for streets where the other utilities do not require replacement or where the road will receive surface rehabilitation instead of complete reconstruction. The City has a number of water mains that are sufficient in size for their location, but have reduced capacity because of mineral deposits. Advanced mineral deposits can result in a significant decrease in amount of water the main can transport.

This program complements the Water Distribution Improvements program and will occur in areas where the water main requires attention, but the other utilities and the road are in good condition. These projects will be designed with in-house staff and costs have been adjusted by 3% per year. **Projects include but are not limited to:** Woodbury St (1,810 LF of 6" main), Ellis Court (560 LF of 6" main), Roxbury St (Reservoir St to Oak St - 1,000 LF of 12"main), Meadow Rd (1320 LF of 6" & 1320 LF of 12"main), Richardson Court (370 LF of 6"main), Carpenter St (1130 LF of 6"main), Kingsbury St (525 LF of 6"main), East Surry Rd (3,400 LF of 12"main), Wagner St (1,000 LF of 6"main), Hopper St (315 LF of 6"main), Speaker St (220 LF of 6"main), Cobb St (300 LF of 6"main), Crescent St (880 LF of 6"main) and West St (from Symonds Place to the railroad/Multi-Use trail crossing - 2,100 LF of 12"main).

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation		212,180	218,545	225,102	231,855	238,810	245,975	1,372,467
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$212,180</b>	<b>\$218,545</b>	<b>\$225,102</b>	<b>\$231,855</b>	<b>\$238,810</b>	<b>\$245,975</b>	<b>\$1,372,467</b>
<b>FUNDING</b>								
Current Revenue	250,000		180,725	225,102	231,855	238,810	245,975	\$1,372,467
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$250,000</b>	<b>\$0</b>	<b>\$180,725</b>	<b>\$225,102</b>	<b>\$231,855</b>	<b>\$238,810</b>	<b>\$245,975</b>	<b>\$1,372,467</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
Ongoing

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Water Tank Mixers**  
 Department: **Public Works - Water Fund**  
 Physical Location: **Various**  
 Federal Mandate: **No**  
 State Regulation or Law: **No**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Yes**



### PROJECT DESCRIPTION/JUSTIFICATION

The City's water tanks are sized for fire protection, so the turnover rate of water in the 1.5 million gallon and 3.0 million gallon Beech Hill water storage tanks can be greater than 50 hours. This can impact water quality because as the water ages, chlorine that was added for disinfection deteriorates to form regulated chemical byproducts. Keeping a measurable chlorine level in stored water requires higher doses of chlorine after treatment which leads to increased concentrations of disinfection byproducts. It also results in more noticeable chlorine at locations close to the storage tanks. Mixing the water in the tank evens out the water age, can allow lower chlorine doses, and a reduction in the formation of disinfection byproducts.

Mixers were installed in three of the smaller tanks in FY12. This project funds a solar-powered mixer in the 3 and 1.5 million gallon tanks -- one in FY15 and one in FY17. The engineering and construction costs have been adjusted by 3% per year from 2011 cost estimates.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design		10,609		11,255				21,864
Construction/Implementation		68,959		73,158				142,117
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$79,568</b>	<b>\$0</b>	<b>\$84,413</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$163,981</b>
<b>FUNDING</b>								
Current Revenue		79,568		84,413				\$163,981
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$79,568</b>	<b>\$0</b>	<b>\$84,413</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$163,981</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
One time

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Water Gate Valve Replacement**  
 Department: **Public Works - Water Fund**  
 Physical Location: **Various**  
 Federal Mandate: **No**  
 State Regulation or Law: **No**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Yes**



### PROJECT DESCRIPTION/JUSTIFICATION

This project replaces gate valves in water mains that are not scheduled for replacement through other infrastructure improvement projects. Properly functioning main line gate valves are required to isolate water mains in the event of a break, routine repair, or contamination. The 2003 infrastructure study cites the state of NH requirement for a routine valve turning program for system maintenance. More than one third of the City valves are sixty years old or older and are difficult to open, close, or cannot be operated at all and are maintenance problems. The deficiencies include leaky valve packing and/or complete valve failure. This project will be designed by in-house engineering staff and includes funds for an outside contractor to complete the work.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation		80,594	83,012	85,406	87,872	90,508	93,223	520,615
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$80,594</b>	<b>\$83,012</b>	<b>\$85,406</b>	<b>\$87,872</b>	<b>\$90,508</b>	<b>\$93,223</b>	<b>\$520,615</b>
<b>FUNDING</b>								
Current Revenue		80,594	83,012	85,406	87,872	90,508	93,223	\$520,615
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$80,594</b>	<b>\$83,012</b>	<b>\$85,406</b>	<b>\$87,872</b>	<b>\$90,508</b>	<b>\$93,223</b>	<b>\$520,615</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
Ongoing

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Watershed Management**  
 Department: **Public Works - Water Fund**  
 Physical Location: **Various**  
 Federal Mandate: **No**  
 State Regulation or Law: **No**  
 Master Plan (CMP) Focus Area: **N/A**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Yes**



### PROJECT DESCRIPTION/JUSTIFICATION

The City of Keene owns approximately 2,400 acres of land around its water supply reservoirs. This land is a valuable asset to the City and represents 85% of the watershed drainage area. Good watershed management can result in higher water yield and improved water quality through forest management, security improvements, and management of recreational activities. This project funds an evaluation of the watershed which will be used to make recommendations for a future watershed management program. Program recommendations will be included in future budget requests.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design		67,500						67,500
Construction/Implementation								0
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$67,500</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$67,500</b>
<b>FUNDING</b>								
Current Revenue		67,500						\$67,500
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$67,500</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$67,500</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
Ongoing

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Water Treatment PLC Upgrade**  
 Department: **Public Works - Water Fund**  
 Physical Location: **555 Roxbury Road**  
 Federal Mandate: **No**  
 State Regulation or Law: **No**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Yes**



### PROJECT DESCRIPTION/JUSTIFICATION

This project will replace the original Programmable Logic Controllers (PLC's) that were installed in 1993 because the existing equipment is no longer supported by the manufacturer. The PLC's are digital controllers that are used to monitor and control equipment, pumps, instrumentation and treatment processes that are the foundation of the water treatment operation. They are designed for multiple input and output arrangements that operate and monitor every facet of the treatment plant, storage tanks, and booster pump stations. The PLC's work in conjunction with the City's Supervisory Control and Data Acquisition (SCADA) system. In the event of a PLC failure, the Water Treatment Facility and its remote stations would not run automatically and would lose monitoring and alarming capabilities.

The project includes replacement of the PLC hardware and software. As funded, it includes controls with room for future expansion, updated software for the PLC's, modifications to the SCADA and PLC programming, engineering design, as built drawings, and project construction.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design	13,675							13,675
Construction/Implementation								0
Property/Equip. Acquisition		62,565						62,565
<b>TOTAL</b>	<b>\$13,675</b>	<b>\$62,565</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$76,240</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve	13,675	62,565						76,240
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$13,675</b>	<b>\$62,565</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$76,240</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
One time

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Instrumentation Upgrade WTF**  
 Department: **Public Works - Water Fund**  
 Physical Location: **555 Roxbury Road**  
 Federal Mandate: **No**  
 State Regulation or Law: **No**  
 Master Plan (CMP) Focus Area: **Healthy Community**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Yes**



### PROJECT DESCRIPTION/JUSTIFICATION

The Water Treatment Facility (WTF) is equipped with continuously online monitoring equipment that allows the operations staff the ability to monitor and trend the performance of the WTF through the plant's Supervisory Control and Data Acquisition System (SCADA). The analytical data generated allows staff the ability to make process changes and optimize the water treatment process. This project included the replacement of 8 online turbidity analyzers in FY14, the installation was completed in October 2013, and the replacement of an online total organic carbon (TOC) analyzer in FY15.

The current TOC analyzer is 9 years old and the manufactures expected lifespan for this instrument is approximately 10 to 15 years. This instrument allows staff the ability to monitor raw and finished water TOC concentrations. Measuring levels of TOC in the raw and finished water allows staff to optimize chemical dosages and remain in compliance with EPA's Long Term Surface Water Treatment Rules that set standards for disinfection byproducts. Costs associated with the operating budget are for service contracts that cover parts, preventative maintenance, repair and calibration of the instrumentation.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation	4,380	1,095						5,475
Property/Equip. Acquisition	24,006	33,619						57,625
<b>TOTAL</b>	<b>\$28,386</b>	<b>\$34,714</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$63,100</b>
<b>FUNDING</b>								
Current Revenue								\$0
Capital Reserve	28,386	34,714			0			63,100
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$28,386</b>	<b>\$34,714</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$63,100</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** Negligible<\$5,001  
N/A

**PROJECT STATUS:** Ongoing CIP

**CITY OF KEENE, NEW HAMPSHIRE  
CAPITAL IMPROVEMENT PROGRAM FY15-FY20  
EQUIPMENT FUND MULTI-YEAR PROJECTIONS**

	ACTUAL FY 11/12	ACTUAL FY 12/13	BUDGET FY 13/14	PROJECTED FY14/15	PROJECTED FY15/16	PROJECTED FY16/17	PROJECTED FY17/18	PROJECTED FY18/19	PROJECTED FY19/20
<b>REVENUES</b>									
Charges for Services	\$2,037,211	\$2,131,016	\$2,141,822	\$2,236,390	\$2,331,633	\$2,437,367	\$2,548,023	\$2,663,833	\$2,772,688
Miscellaneous	13,272	9,558	7,500	11,400	11,339	11,452	11,566	11,682	11,800
Use of (Addition to) Surplus Equipment Sales	6,247	9,392	67,331	6,100	6,161	6,223	6,285	6,348	6,411
<b>TOTAL REVENUES</b>	<b>\$2,056,729</b>	<b>\$2,149,966</b>	<b>\$2,226,653</b>	<b>2,253,890</b>	<b>\$2,349,133</b>	<b>\$2,455,042</b>	<b>\$2,565,874</b>	<b>\$2,681,863</b>	<b>\$2,790,899</b>
<b>EXPENSES</b>									
Personnel & Benefits	\$424,432	\$462,829	\$506,420	\$533,007	\$560,990	\$590,442	\$621,440	\$654,066	\$688,404
Operating Costs	1,267,641	1,223,418	1,290,233	\$1,318,488	\$1,347,517	\$1,377,632	\$1,408,893	\$1,441,371	\$1,475,138
Depreciation	415,221	415,265	430,000	430,000	440,000	450,000	470,000	480,000	490,000
<b>SUBTOTAL</b>	<b>2,107,293</b>	<b>2,101,511</b>	<b>2,226,653</b>	<b>2,281,495</b>	<b>2,348,507</b>	<b>2,418,073</b>	<b>2,500,334</b>	<b>2,575,437</b>	<b>2,653,542</b>
MINOR CAPITAL		14,350	0	0	0	0	0	0	0
<b>TOTAL EXPENSE</b>	<b>\$2,107,293</b>	<b>\$2,115,861</b>	<b>\$2,226,653</b>	<b>\$2,281,495</b>	<b>\$2,348,507</b>	<b>\$2,418,073</b>	<b>\$2,500,334</b>	<b>\$2,575,437</b>	<b>\$2,653,542</b>
<b>NET REVENUE (EXPENSE)</b>	<b>(\$50,564)</b>	<b>\$34,105</b>	<b>(\$0)</b>	<b>(\$27,605)</b>	<b>\$626</b>	<b>\$36,969</b>	<b>\$65,541</b>	<b>\$106,426</b>	<b>\$137,357</b>

**EQUIPMENT FUND INCREASE (DEC)** 8.89% 2.46% 2.94% 2.96% 3.40% 3.00% 3.03%

*This section adjusts Net Revenue (Expense) to include uses of cash not recorded as expense, and to exclude expenses that do not require the use of cash. The purpose of the adjustment is to reflect the projected uses of cash from FY 15 thru FY 20:*

Add: Depreciation	\$430,000	\$440,000	\$450,000	\$450,000	\$450,000	\$450,000	\$470,000	\$480,000	\$490,000
Subtract: Trfs to Capital Reserve (see Note 2)	(450,000)	(500,000)	(600,000)	(600,000)	(600,000)	(600,000)	(600,000)	(610,000)	(620,000)
Debt Service Principal (see Note 2)	(34,862)	(34,862)							
Capital Outlays (see Note 2)									
Projected Annual Cash Surplus (Deficit)	<b>(\$82,467)</b>	<b>(\$59,374)</b>	<b>(\$113,031)</b>	<b>(\$113,031)</b>	<b>(\$64,459)</b>	<b>(\$23,574)</b>	<b>(\$23,574)</b>	<b>(\$23,574)</b>	<b>\$7,357</b>

Projected cash balance at year end	\$	448,148	365,681	193,276	306,307	128,816	105,242	112,599
Projected cash balance as a % of operating budget (personnel & operating costs only)		19.75%	16.05%	9.82%	6.34%	5.02%	5.20%	
Projected percentage increase - internal fleet charges		4.25%	4.50%	4.75%	4.75%	4.75%	4.25%	

Note 1: Net Revenue (Expense) indicates the anticipated increase (decrease) in retained earnings at the end of the year.

Note 2: Debt Service principal, capital outlays, and transfers to reserves are balance sheet transactions, and are not included in expenses.

Note 3: Budgeted revenues exclude Use of Surplus / Fund Balance in FY 15-20.

**CITY OF KEENE, NEW HAMPSHIRE**  
**Equipment Fund 2015 - 2020 Capital Improvement Program Summary**

<u>Dept.</u>	<u>Project Name</u>	<u>2014/2015</u>	<u>2015/2016</u>	<u>2016/2017</u>	<u>2017/2018</u>	<u>2018/2019</u>	<u>2019/2020</u>	<u>TOTAL</u>
Public Works	Capital Reserve - Equipment Replacement	\$ 450,000	\$ 500,000	\$ 600,000	\$ 600,000	\$ 610,000	\$ 620,000	\$ 3,380,000
Public Works	Equipment Replacement	373,689	422,521	845,451	826,032	711,069	760,420	3,939,182
Public Works	Fuel Island Upgrade	34,862						34,862
<b>TOTAL CAPITAL PROGRAM</b>		<b>\$ 858,551</b>	<b>\$ 922,521</b>	<b>\$ 1,445,451</b>	<b>\$ 1,426,032</b>	<b>\$ 1,321,069</b>	<b>\$ 1,380,420</b>	<b>\$ 7,354,044</b>

**PROJECT FUNDING DETAIL**

**Reserve Funded Projects**

Public Works	Equipment Replacement	\$ 373,689	\$ 422,521	\$ 845,451	\$ 826,032	\$ 711,069	\$ 760,420	\$ 3,939,182
<b>Total: Reserve Funded Projects</b>		<b>\$ 373,689</b>	<b>\$ 422,521</b>	<b>\$ 845,451</b>	<b>\$ 826,032</b>	<b>\$ 711,069</b>	<b>\$ 760,420</b>	<b>\$ 3,939,182</b>

**Projects Funded with Debt**

Public Works	n/a	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total: Projects Funded with Debt</b>		<b>\$ -</b>						

**Capital Reserve Appropriations**

Public Works	Capital Reserve - Equipment Replacement	\$ 450,000	\$ 500,000	\$ 600,000	\$ 600,000	\$ 610,000	\$ 620,000	\$ 3,380,000
<b>Total: Capital Reserve Appropriations</b>		<b>\$ 450,000</b>	<b>\$ 500,000</b>	<b>\$ 600,000</b>	<b>\$ 600,000</b>	<b>\$ 610,000</b>	<b>\$ 620,000</b>	<b>\$ 3,380,000</b>

**Projects Funded with State Grant**

Public Works	n/a	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total: Projects Funded with State Grant</b>		<b>\$ -</b>						

**Projects Funded with Cash**

Public Works	Fuel Island Upgrade	\$ 34,862	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 34,862
<b>Total: Projects Funded with Cash</b>		<b>\$ 34,862</b>	<b>\$ -</b>	<b>\$ 34,862</b>				

**Subtotal: Uses of Cash**

(Capital Reserve Appropriations plus Projects Funded with Cash)

		\$ 484,862	\$ 500,000	\$ 600,000	\$ 600,000	\$ 610,000	\$ 620,000	\$ 3,414,862
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**TOTAL CAPITAL PROGRAM**

		<b>\$ 858,551</b>	<b>\$ 922,521</b>	<b>\$ 1,445,451</b>	<b>\$ 1,426,032</b>	<b>\$ 1,321,069</b>	<b>\$ 1,380,420</b>	<b>\$ 7,354,044</b>
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# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Capital Reserve-Equipment Replace**  
 Department: **PUBLIC WORKS**  
 Physical Location: **330 Marlboro St.**  
 Federal Mandate: **No**  
 State Regulation or Law: **No**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Transportation**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Yes**



### PROJECT DESCRIPTION/JUSTIFICATION

The City of Keene Fleet has 137 vehicles and pieces of equipment. The age of the fleet ranges from one year to more than 15 years. This project sets aside funds for the orderly and timely replacement of vehicles and equipment when they reach the end of their useful life which is determined through a complete evaluation process. Operating vehicles beyond their service life results in increased maintenance costs, poor customer service, and lost production time due to a vehicle or equipment being out of service for extensive repairs. The replacement program is based on equipment age, condition, trade-in value, and operational needs of the user. When practical, emphasis is put on purchasing fuel efficient "green" vehicles as replacements are being evaluated. This replacement program list is reviewed extensively by the Fleet Services Administrative Review Committee before any piece of equipment is replaced. Vehicles are not replaced just because they are on the schedule.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design								0
Construction/Implementation								0
Property/Equip. Acquisition		373,689	422,521	845,451	826,032	711,069	760,420	3,939,182
<b>TOTAL</b>	<b>\$0</b>	<b>\$373,689</b>	<b>\$422,521</b>	<b>\$845,451</b>	<b>\$826,032</b>	<b>\$711,069</b>	<b>\$760,420</b>	<b>\$3,939,182</b>
<b>FUNDING</b>								
Current Revenue	692,936	\$450,000	\$500,000	\$600,000	\$600,000	\$610,000	\$620,000	\$4,072,936
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources		1,923	2,122	1,513	952	702	352	7,564
<b>TOTAL</b>	<b>\$692,936</b>	<b>\$451,923</b>	<b>\$502,122</b>	<b>\$601,513</b>	<b>\$600,952</b>	<b>\$610,702</b>	<b>\$620,352</b>	<b>\$4,080,500</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** Ongoing CIP



# CITY OF KEENE, NEW HAMPSHIRE

## 2015 - 2020 Capital Project Funding Request

### GENERAL PROJECT DATA

Project Name: **Fuel Island Upgrade**  
 Department: **PUBLIC WORKS**  
 Physical Location: **330 Marlboro St.**  
 Federal Mandate: **No**  
 State Regulation or Law: **No**  
 Master Plan (CMP) Focus Area: **Quality Built Environment**  
 CMP Vision/Strategy: **Infrastructure**  
 Council Initiative: **N/A**  
 V.O.I.C.E.: **Continually Assess Facilities and Infrastructure**  
 Departmental Objective: **Yes**



### PROJECT DESCRIPTION/JUSTIFICATION

The fuel island located at 330 Marlboro Street dispenses approximately 55,000 gallons of fuel annually supplying the bulk of fuel for the diesel vehicles in the City's fleet. This fueling station was last upgraded in 1995. As can be seen in the above pictures, the diesel tanks are prone to flooding. During an even moderate rain storm the sumps, which hold the pumping and leak detection systems, floods requiring manual pumping. The water that leaks into the sumps also damages the leak detection devices which must be replaced at \$500 per occurrence. The diesel island at 330 Marlboro Street needs the sumps replaced to avoid future flooding issues. This will involve removal of concrete surrounding the manholes for the sumps, removing the soil around the sump buckets, repair or replace the sump buckets, backfill with drainage stone, install new waterproof manhole covers (3), and pour a new concrete pad.

### FINANCIAL PLAN & PROJECT SCHEDULE

	PRIOR YR	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
<b>EXPENDITURES</b>								
Design		5,000						5,000
Construction/Implementation		29,862						29,862
Property/Equip. Acquisition								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$34,862</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$34,862</b>
<b>FUNDING</b>								
Current Revenue		\$34,862						\$34,862
Capital Reserve								0
Debt Funded								0
Federal or State Grants								0
Other Sources								0
<b>TOTAL</b>	<b>\$0</b>	<b>\$34,862</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$34,862</b>

**ANNUAL DEPARTMENT OPERATING BUDGET IMPACT:** No impact  
N/A

**PROJECT STATUS:** New Project

## VEHICLE AND EQUIPMENT 6 YEAR REPLACEMENT SCHEDULE

VEHICLE NUMBER	MODEL YEAR	Purchase Price	DESCRIPTION	VEHICLE DEPT. NO	USING DEPT/DIV	FY 2014/2015	FY 2015/2016	FY 2016/2017	FY 2017/2018	FY 2018/2019	FY 2019/2020
<b>STAFF CARS</b>											
			<b>REPLACE AT 7Yrs./60,000</b>								
0901	2009	\$23,080	Honda Civic Hybrid	10	Pool car						
0903	2009	\$23,080	Honda Civic Hybrid	10	Pool Car						\$28,765
0720	2007	\$23,080	Honda Civic Hybrid	10	Pool car		\$24,780				\$28,765
2110	2012	\$16,585	Ford Focus	10	Assesing						
1001	2009	\$29,879	Ford Escape Hybrid	10	PW						
0318	2003	\$14,992	Ford Taurus	10	Health						
0902	2009	\$23,080	Honda Civic Hybrid	10	Code			\$27,927			
19C2	2009	\$37,336	Suburban	19C3	Fire			\$45,177			
19C1	2009	\$21,927	Explorer	19C1	Fire						
0606	2006	\$35,132	Suburban	19C2	Fire		\$42,400				
0943	2009	\$29,879	Ford Escape	1143	PD Parking					\$38,843	
0973	2009	\$29,879	Ford Escape	73	Solid Waste						
0014	2000	Rental	Ford Taurus	25	Fleet						
1144	2011	\$18,989	Ford Transit connect	1144	PD Parking						
1143	2012	\$22,374	Ford Transit Connect	1143	PD Parking						
<b>VANS</b>											
			<b>REPLACE AT 10 YEARS/70,000</b>								
			<b>(8 YEARS/70,000 old)</b>								
0004	2000	\$18,151	Ford E150	7	Water Meter						
1108	2011	\$17,392	Ford E150	8	Water Meter						
1258	2012	\$16,491	Ford E150	58	Engineering						\$28,902
0907	2009	\$22,232	Ford E-250	101	Parks & Rec						
0203	2002	\$16,686	Ford E-150	1145	PD Parking	\$25,432					
0908	2009	\$22,232	Ford E-250	102	Parks & Rec						
1259	2012	\$16,491	Ford E-150	59	WWTP					\$28,902	
0313	2003	\$14,250	Ford E-250	125	Records						
<b>AMBULANCE</b>											
			(Funding by separate Fire Department Capital Reserve Program)								
0707	2007		C4500 Chevy	19A1	Fire						
0305	2003		Ford E-350	19A2	Fire						
19A3	2009		C4500 Chevy	19A3	Fire						
<b>MARKED POLICE</b>											
			<b>REPLACE AT 60,000/3YEARS</b>								
1136	2011	\$27,424	Dodge Charger	1136	Cruiser			\$35,501			\$38,696
1137	2011	\$27,138	Crown Vic	1137	Cruiser			\$35,501			\$38,696
0933	2009	\$22,515	Crown Vic	1133	Cruiser		\$34,407				
0934	2009	\$21,994	Crown Vic	1134	Cruiser	\$33,547					
1035	2010	\$22,515	Crown Vic	1135	Cruiser		\$34,407				
1140	2011	\$27,138	Crown Vic	1140	Cruiser	\$33,547					

## VEHICLE AND EQUIPMENT 6 YEAR REPLACEMENT SCHEDULE

VEHICLE NUMBER	MODEL YEAR	Purchase Price	DESCRIPTION	VEHICLE DEPT. NO	USING DEPT/DIV	FY 2014/2015	FY 2015/2016	FY 2016/2017	FY 2017/2018	FY 2018/2019	FY 2019/2020
1130	2011	\$21,994	Crown Vic	1130	Cruiser			\$35,501			
1138	2011	\$27,424	Crown Vic	1138	Cruiser			\$32,086			
0939	2009	\$22,575	Crown Vic	1139	Cruiser		\$34,467			\$37,569	
<b>PD UNMARKED/STAFF CARS</b>											
			<b>REPLACE AT 80,000/6 YEARS</b>								
0019	2000	\$20,595	Crown Vic	1121	Unmarked			\$24,096			
2111	2012	\$27,570	Ford Interceptor Util.	1111	Unmarked					\$35,558	
0929	2010	\$41,000	Tahoe	1129	Shift Commander					\$47,970	
0037	2000	\$2900	Lexus 300 ES	1120	PD Staff			\$33,393			
1110	2012	\$26,423	Ford Taur.	1110	PD Staff		\$25,000				\$29,250
0923	2009	\$17,859	VW Jetta	1123	PD Staff					\$20,895	
1222	2012	\$20,528	Dodge Caravan	1122	PD Staff						
0924	2009	\$20,910	Dodge Caravan	1124	PD Staff					\$24,465	
<b>DUMP TRUCKS 35/48/50 GVW</b>											
			<b>REPLACE AT 17 YEARS</b>								
0202	2002	\$112,143	Freightliner	6	Highway						\$137,000
0526	2005	\$133,600	Ford Dump (Irg)	26	Highway						
0527	2005	\$133,600	Freightliner	27	Water						
0965	2009	\$151,000	Freightliner	65	Highway						
9406	1994	\$80,463	Inter Dump	3	Highway						
9407	1994	\$80,463	Inter Dump	5	Highway						
9508	1995	\$80,463	Inter Dump	AP5	Airport						
9501	1995	\$80,463	Inter Dump	12	Highway		\$125,000				
9502	1995	\$80,463	Inter Dump	7	Highway			\$128,000			
0312	2003	\$120,000	Freightliner	2	Highway						
9901	1999	\$88,000	Inter Dump	4	Highway				\$131,000		
9906	1999	\$88,000	Inter Dump	10	Highway				\$131,000		
0201	2002	\$112,143	Freightliner	22	Highway						\$137,000
	2009		Freightliner	AP8	Airport						
0001	2001	\$76,644	Sterling	72	Highway					\$134,000	
<b>1 TON TRUCKS 10,000 GVW</b>											
			<b>REPLACE AT 60,000/10 YEARS</b>								
0611	2006	\$44,888	Ford Dump (sm)	11	Highway			\$58,354			
0724	2007	\$44,888	Ford F450	24	Highway			\$58,354			
0874	2008	\$44,888	Ford F450	74	Highway				\$58,354		
0823	2008	\$29,956	Ford F350	23	WMTP					\$38,943	
9904	1999	\$33,562	Ford F350	134	Cemetery						
9908	1998	\$33,562	Ford F350	45	Highway						
1275	2012	\$49,681	Ford F450	75	Highway						\$64,585
0006	2000	\$26,411	Ford F350	107	Parks & Rec		\$50,000				

## VEHICLE AND EQUIPMENT 6 YEAR REPLACEMENT SCHEDULE

VEHICLE NUMBER	MODEL YEAR	Purchase Price	DESCRIPTION	VEHICLE DEPT. NO	USING DEPT/DIV	FY 2014/2015	FY 2015/2016	FY 2016/2017	FY 2017/2018	FY 2018/2019	FY 2019/2020
1214	2012	\$31,623	Ford F350	14	Water						
0815	2008	\$29,956	Ford F350	15	Water			\$38,943			
9820	1998	\$52,000	Ford F350	20	Fleet						
0205	2002	\$25,749	Ford F350	19B1	Fire						
0308	2003	\$25,749	Ford F250	19b2	Fire						
1119	2011	\$27,659	Ford F 350	19	Fleet						
<b>3/4 TON TRUCKS</b>			<b>REPLACE AT 80,000/10 YEARS</b>								
9808	1998	\$21,805	Ford F250	130	Parks			\$25,000			
9810	1998	\$21,805	Ford F250	103	Parks						
9821	1998	\$21,805	Ford F250	19U3	Fire						
0009	2000	\$22,232	Ford F250	AP1	Airport						
0101	2001	\$22,232	Ford F250	131	Parks						
06AP3	2006	\$22,232	Ford F250	AP3	Airport			\$25,000			
0904	2009	\$22,232	Ford F250	104	Parks						
1116	2011	\$20,483	Ford F250	16	Water						
<b>1/2 TON TRUCKS</b>			<b>REPLACE AT 70,000/10 YEARS</b>								
0311	2003	\$23,942	Ford F250	13	Water						
0818	2008	\$36,000	Ford F150	18	Highway			\$12,000		\$12,000	
0525	2005	\$33,600	Chevrolet 1500	25	Highway	\$20,000					
<b>1/4 TON TRUCKS</b>			<b>REPLACE AT 70,000/10 YEARS</b>								
0024	2000	\$15,771	Chevy S 10- Rental	0057	Fleet						
9803	1998	\$10,526	Ford Ranger	57	Engineering						
0310	2003	\$14,985	Ford Ranger	21	WTTP						
9804	1998	\$10,494	Ford Ranger	32	Facilities						
0314	2003	\$15,496	Ford Ranger	112	Code						
0502	2005	\$14,707	Ford Ranger	120	inspections						
<b>SIDE WALK PLOWS</b>			<b>REPLACE AT 10 YEARS</b>								
0411	2004	\$74,905	Holder (sidewalk plow)	50	Highway	\$16,000	\$16,000	\$16,000	\$16,000	\$16,000	\$16,000
0412	2004	\$74,905	Holder (sidewalk plow)	51	Highway	\$16,000	\$16,000	\$16,000	\$16,000	\$16,000	\$16,000
0553	2005	\$74,905	Holder (sidewalk plow)	53	Highway	\$16,000	\$16,000	\$16,000	\$16,000	\$16,000	\$16,000
0752	2007	\$82,357	Trackless (sidewalk plow)	52	Highway						
0649	2006	\$110,000	Trackless (sidewalk plow)	49	Highway						
<b>BACKHOE</b>			<b>REPLACE AT 12 YEARS</b>								

## VEHICLE AND EQUIPMENT 6 YEAR REPLACEMENT SCHEDULE

VEHICLE NUMBER	MODEL YEAR	Purchase Price	DESCRIPTION	VEHICLE DEPT. NO	USING DEPT/DIV	FY 2014/2015	FY 2015/2016	FY 2016/2017	FY 2017/2018	FY 2018/2019	FY 2019/2020
9608	1996	\$81,100	John Deere 710D	39	Water	\$25,000	\$25,000	\$25,000	\$25,000		
0114	2001	\$63,874	John Deere 410D	41	Highway			\$25,000	\$25,000	\$25,000	
<b>PAYLOADERS</b>											
<b>REPLACE AT 15 YEARS</b>											
0115	2001	\$148,964	John Deere Payloader	17	Transfer Station						\$140,000
0634	2006	\$126,667	Komatsu	34	Highway						
0031	2000	\$148,500	John Deere Payloader	33	Highway			\$140,000			
0306	2003	\$161,802	Case Payloader	AP5	Airport						
0607	2006	\$61,595	409 Loader	JCB	Recycle						
<b>GRADER</b>											
8510	1985	\$80,500	Fiat Motorized Grader	37	Highway						
<b>TRACTORS</b>											
<b>REPLACE AT 10 YEARS</b>											
0407	2004	\$106,472	Ford Versatile Tractor	40	Highway						
066AP	2006	\$106,472	Ford Versatile Tractor	60	Airport				\$70,000		
0905	2009	\$31,000	New Holland Tractor	105	Parks & Rec						\$40,300
0932	2009	\$20,125	Cub Cadet	132	Cemetery					\$26,163	
9918	1999	\$39,147	Kubota Tractor		WWTP	\$56,763					
0410	2004	\$18,700	Forklift		Recycle	\$23,400					
0513	2005	\$6,190	John Deere 1300		Parks & Rec				\$12,900		
0909	2009	\$8,000	John Deere X700	109	Parks & Rec				\$10,400		
1117	2011	\$32,250	Volvo MC115C	skidsteer	Highway						
0108	2001	\$33,020	NewHolland LS190		Solid Waste				\$42,926		
0706	2007	\$70,588	Toro Mower	Mower	Cemetery						
0635	2006	\$8,359	Simplicity	135	Cemetery			\$10,867			
<b>SPECIALTY EQUIPMENT</b>											
<b>REPLACE AT 10 YEARS</b>											
0317	2003	\$204,638	Ford L8000 Vactor	28	Water/Sewer	\$65,000	\$65,000	\$65,000	\$65,000	\$65,000	
9801	1998	\$134,240	Vac Con	36	Highway						
9408	1994		Oshkosh Snow Blower	AP4	Airport						
<b>AIR COMPRESSORS</b>											
<b>REPLACE AT 10 YEARS</b>											
9503	1990	\$10,000	Ingersoll Compressor	133	Cemetery						
9714	1997	\$10,000	Lindsay Compressor	88	Highway					\$13,000	
9909	1999	\$10,818	Lindsay Compressor	86	Water						\$14,063
0589	2000	\$10,000	Air Compressor	89	Highway		\$13,840				

## VEHICLE AND EQUIPMENT 6 YEAR REPLACEMENT SCHEDULE

VEHICLE NUMBER	MODEL YEAR	Purchase Price	DESCRIPTION	VEHICLE DEPT. NO	USING DEPT/DIV	FY 2014/2015	FY 2015/2016	FY 2016/2017	FY 2017/2018	FY 2018/2019	FY 2019/2020
<b>CONSTRUCTION EQUIPMENT</b>			<b>REPLACE AT 10 YEARS</b>								
0704	2007	\$4,499	Graco Painter	80	Highway						
9012	1990	\$6,000	Snow Blower attach.	80	Highway				\$5,849		
9823	1998	\$10,000	Chipper		Highway				\$13,000		\$7,800
0912	2009	\$1,788	Woods Brush Hog		Highway						
9912	2000	\$7,155	Rosco Roller		Highway				\$9,302		
9410	1994	\$18,700	Forklift		Fleet Services						
9818	1998	\$3,000	Trailer for Cemetery		Cemetery						\$3,900
9924	1999	\$8,200	Hydro Tek Steamer		Highway						\$10,660
0113	2001	\$21,208	Asphalt Reclaimer		Highway						
9301	1993	\$21,208	Asphalt Reclaimer		Highway						
8210	1982	\$20,000	Infra red (rebuilt in 2001)		Highway						
0010	2000	\$5,800	Miller Curber		Highway				\$7,540		
0022	2000	\$33,000	Cimline Crack Sealer		Highway						
0520	2005	\$9,260	Welder/Generator on Trailer		Fleet Services					\$42,900	\$12,038
0408	2004	\$38,000	USA Mower Attach		Highway						
0011	2000	\$5,225	Stowe Roller		Parks & Rec						
9014	1990	\$20,000	Snogo Blower		Highway						
0663AP	2006		Saisco/Chipper		Airport						
0409	2004		Pronovost Snowblower		Highway						
0036	2000	\$9,995	Vibromax Roller		Highway						
			<b>Total</b>		<b>Total</b>	<b>\$373,689</b>	<b>\$422,521</b>	<b>\$845,451</b>	<b>\$826,032</b>	<b>\$711,069</b>	<b>\$760,420</b>