# Town of Concord

# Report of the Facilities Planning Committee



June 25, 2003

# Town of Concord Facilities Planning Committee Report June 25, 2003

# **Executive Summary**

The Committee was advised that as many as six major building projects may be requested over the next twenty years. We recommend that four of these projects be authorized at approximately five-year intervals, starting with the Thoreau School replacement in 2005. Such a schedule by itself will not cause real estate taxes to increase at a rate greater than the estimated 3% rate of inflation.

The Committee judges that maintenance of town facilities is inadequately funded, and that an increase of approximately \$500,000 per year may be required for the next several years to bring facilities to optimum condition. The report offers a number of specific recommendations as to how Concord's maintenance procedures might be improved with resulting economies.

The land and buildings owned by the town constitute a resource that should be utilized to the optimum extent. Every future building need must be evaluated in terms of existing owned property so that the resulting recommended program responds to the optimum long-term community spatial requirements and financial constraints. Every new building program should reflect usage flexibility, energy conservation, and efficient land utilization.

During the course of its studies it became increasingly apparent to the Committee that the ability to control real estate tax increases lies with fiscal prudence in establishing the operating costs for the schools and the town. Facilities costs, including those related to proposed new construction, are comparatively minor in the long run. We urge that the compounding effect of proposed Proposition 2 ½ overrides be clearly publicized and explained as such Articles are brought before future Town Meetings.

Pertinent information relative to this report was obtained through interviews with key school and town employees, and from financial information made available with respect to the owning and operating costs of the 24 buildings studied. The Committee believes that the information so obtained is sufficiently complete to support our recommendations.

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### I. Introduction

**A. Charge to the Committee**. The Facilities Planning Committee was established in January 2002 by the Board of Selectmen and given eighteen months to complete its work. The highlights of the charge to the Committee are outlined in the following sections of its charge:

"Purpose: To develop and recommend to the Board of Selectmen, and also for the use of the School Committee, a needs assessment, sequencing, and financing plan for the maintenance, upkeep, repair, reconstruction, additions, and new construction for all Town buildings, particularly School Buildings, and those projects not part of the Capital Plan, over the next twenty (20) years. This plan will take into account and coordinate with any and all expected capital expenditures over the same time period. The goal is to develop a timing and sequencing plan, including financing, which will adequately provide for the upkeep of Town buildings and their improvement as required, either by obsolescence or needs, most immediately school buildings, in such a manner as to minimize the impact on the Town's resources."

"Facilities to be Considered: Any and all buildings and facilities owned by the Town of Concord, but excluding facilities which are funded by Enterprise Funds or are part of the Capital Plan."

Among its thirteen members were two representatives each of the Board of Selectmen and of the School Committee. The other nine members included citizens of the Town with experience in financial planning, architecture, engineering, and project management. The members of the Committee were: Loretta Ho Sherblom and William J. Sweeney, Jr. (Co-chairs), William J. Dolan (Clerk), Warren F. Daniell, Jr. (Subcommittee Chair), Jean Paul Carlhian, James P. DiGiovanni [withdrew 2002], Richmond T. Edes, Margaret W. Gaudet, Thea Hahn, Ruth C. Lauer, Patrick J. Sinnott, Carl A. Prussing, David A. Peters, and David Bearg [joined 2003].

# **B.** Acknowledgments

The Facilities Planning Committee received extensive assistance from the Town Manager, the Town Treasurer, Town Department Heads and Building Managers, School Administrators, Jim Reynolds and the Long Range Planning Committee and many others. Without this assistance we could not possibly have completed our assignment. If errors appear in anything included in our report that we have obtained from these sources, we accept full responsibility.

# C. Vision Statement

The Facilities Planning Committee believes that the Town's facilities are among its most valuable assets and form a critical part of the Town's identity. The array of Townowned facilities serves a diverse group of users and programs; performs essential public safety, educational, governmental and recreational functions; contributes to the quality of life in Concord; and represents a significant long-term investment. It can also represent a serious liability, requiring major investments and individual efforts.

For these reasons, the Facilities Planning Committee believes that the ongoing stewardship of our facilities must be supported by a comprehensive planning process that addresses existing facility conditions, program needs, schedules and budgets. While this process must recognize short-term financial trends and constraints, it must nonetheless provide a framework for the long-term maintenance, upgrading, expansion and new construction of facilities – facilities that the citizens of Concord will all be proud of.

The preparation of a twenty-year facilities plan is a useful step in understanding and projecting the costs that the Town is likely to incur in renovating or replacing its major facilities in the foreseeable future. For maximum benefit, the twenty-year facilities plan should be maintained as a planning tool of the Town. For that to be possible, the plan must be updated at regular intervals. The Facilities Planning Committee hopes that the study it has undertaken has not merely produced a one-time view of the future of the Town's facilities needs, but also has demonstrated the usefulness of its method of analysis for the future.

# II. The First Tasks of the Committee

Among its first activities in 2002, the Committee conducted an inspection of the condition of the Alcott School in the Spring of that year, and reviewed the architectural plans previously developed for the construction of a new Alcott School. The Committee recommended affirmative action on the Alcott School Warrant Article at the 2002 Town Meeting based on these two evaluations. The project was subsequently approved by Town Meeting.

The Committee also started a review of the School Building Assistance Bureau rules and regulations that might have affected the Town's plans for future school facilities. When the S.B.A.B. funding, programs, and rules were suspended at the state level, the study was discontinued. If the Commonwealth revives the S.B.A.B. program, or institutes a new program, the twenty-year facilities plan will need to be revised to reflect the new realities. Until that time the Town is unlikely to receive any state aid for its school facilities projects.

# **III. The Building Inventory**

An essential early task of the Committee was to prepare an inventory of Town buildings to provide the data necessary for the creation of a needs-based facilities plan. The Committee formed a Project Planning Subcommittee consisting of Thea Hahn, David Peters, Bill Dolan, and David Bearg, with Warren Daniell serving as Chair. The Subcommittee gathered data on twenty-four Town buildings including all schools but not including facilities funded by Enterprise Funds or which are part of the Capital Plan, as directed by the Committee's Charge.

The result of the Subcommittee's efforts is the attached Building Inventory spreadsheet. The Building Inventory identifies five buildings which are the direct responsibility of the Town Manager, three administered by the Recreation Department, five by Public Works, two by Public Safety, and seven by the School Department. Two buildings owned by the Town, but leased to self-supporting activities (Emerson Umbrella and "F.O.P.A.C."), are also included. The Hunt Gym, identified as one of the Recreation Department buildings, is partially self-supporting.

History, occupancy, condition and needs information for each of these buildings was obtained through interviews with the respective building managers. The interview methods and notes are described in the Appendix. Square foot areas of the buildings were obtained from Town records but were not confirmed by the Subcommittee. Approximate replacement costs were estimated by the Subcommittee, which utilized as a basis for these costs the "R.S. Means Square Foot Cost 2003 Edition" as well as personal experience. It is worth noting that the public schools represent approximately 75% of the replacement value of those buildings covered by this report. Insured values were also obtained from the Town, and are current as of August 2000.

During the course of its studies the Subcommittee met or talked with the Facilities Managers of Middlesex School and Emerson Hospital and with several facilities consultants, and discussed with them their procedures for estimating and funding maintenance and operating costs.

The Subcommittee analyzed the existing state of Town Buildings through informal inspections of all major buildings and through extensive interviews with Town personnel responsible for the operation and maintenance of each building.

	A	uilding Inventor B	C	August 8, 2003 D	E	F	G	н	1	J	K	L	М	N	0
1	^	_	1		_			DATE OF	l	ĺ		I	İ	"	
	BUILDING & ADDRESS	BUILDING MANAGER & PHONE NUMBER	DATE BUILT	BUILDING USE	SQUARE FOOTAGE	INSURED VALUE 08/01/2000	REPLACEMENT COST 01/01/2003 (see note 1)	MOST	DESCRIPTION OF MOST RECENT WORK	KNOWN CODE COMPLIANCE ISSUES	OCCUPANCY PATTERNS	ANNUAL ENERGY COSTS 2004 BUDGETS	ENERGY COSTS PER SQUARE FOOT	WATER & SEWER COSTS	HVAC SYSTE
		Asst Town		offices,				WORK			weekdays				
	Town House	Manager		meeting,					restroom		and				Boiler & A/0
01	22 Monument Square	318-3000	1851	storage	14,838	\$1,715,000	\$2,225,700	2002	renovations	none	weekends	\$28,352	\$1.91	\$2 235	new in 200
-	Visitors Information	0.0000	1001	Visitor Info	. 1,000	Not on	ΨΞ,ΞΞΟ,7 σσ	2002	1011014410110		Woodlongs	Ψ20,002	ψ	Ψ2,200	Sealed
		New Facility in		and Rest		schedule			New		7 days, during				combustion
02	Main Street	2002	2002	Rooms	1.120	6/4/2003	\$400,000	2002	Construction	none	daylight hours	\$0	\$0.00		gas with he
02		New Facility	Expected		, -		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Days &	*-	,		3
	Harvey Wheeler Center	under	to open	Senior Citizen					Complete		evenings, 7				
03	1276 Main Street	construction	2004	Center	18,000	\$2,049,000	\$3,600,000	2003			days per wk	\$14,995	\$0.83	\$4,309	New 2003
		Asst Town		storage of	,		, , ,		Ü		constant		·		
'	Gun House	Manager		Concord					wiring		storage,				
04	Lexington Road	318-3000	1960	Battery	1,080	\$63,321	\$89,640	2001	upgrade	none	episodic	\$347	\$0.32	\$200	None
				office area &											New Boiler
	Cemetery Building	David Turocy		equipment						not ADA					2000. Oil
05	Court Lane	318-3221	pre-1900		1,540	\$7,500	\$87,000	none		compliant	weekdays	\$1,200	\$0.78	\$500	fired, hot ai
	Hunt Recreation	Danner							fire alarm		·				
06 07	Facility 90	DeStephano							system		daily 6am -				
06	Stow Street	369-6460	1935	recreation	12,492	\$2,253,000	\$2,248,560	2002	replacement	none	11pm	\$22,290	\$1.78	\$4,498	3
-		Danner									seasonal -				
1	Hunt Pool & Shed	DeStephano							painting pool		daily -65				
07	90 Stow Street	369-6461	1991	summer swim	3,750	\$573,000	\$397,500	2002	shed	none	hours/week				none
		Danner		Public Toilets,											
į	Field House	DeStephano		Equipment					Lights						
08	Lawsbrook Road	369-6461		Storage	600	\$62,000	\$61,800	2001	Replaced	none	seasonal				none
	Office, Garages &	William Edgerton													Natural
		David Turocy							partial roof						Gas/Hot
09	Keyes Road	318-3222		offices, garage	18,268	\$1,693,000	\$1,826,800	2002	replacement	none	weekdays	\$39,894	\$2.18	\$1,264	Water & Air
10		William Edgerton													
	Salt Shed	David Turocy		road salt											
10	133 Keyes Road	318-3222		storage	4,240	\$147,000	\$161,120			none	episodic	none			
	Water & Sewer	William Edgerton							partial roof	no sprinklers,					natural gas
		David Turocy		administration					replacement	office or mech					heat, electr
11	Keyes Road	318-3222		& garage	9,700	\$1,039,000	\$970,000	2002	(EPDM)	room	weekdays	\$21,783	\$2.25	\$854	baseboard
	Planning/Land								Totally						Gas heat,a
	Management	John Minty							remodeled		daily 7am -				A/C installe
12	141 Keyes Road	318-3280		offices	9,841	\$931,000	\$1,180,920	1994	1994	none	midnight	\$20,285	\$2.06	\$785	1997.2boile
	Earth Products Site	William Edgerton		materials &											
	Garage	David Turocy		equipment							episodic,				
13	Rte. 126 at Rte. 2	318-3222	unknown		1,280	1	\$106,240			none	seasonal				none
•	D. II. O. E. O			Police/Fire					D:		24 hours a				Age of boil
14	Police & Fire Station	Lt. Paul Macone	4050	Offices, Living	44404	*******	*** *** ***		Dispatch	2nd floor. (Inc		000 450	***	40.750	unknown,
14	219 Walden Street	318-3406		Garage	14,431	\$2,022,000	\$3,246,975	2002	Center rehab	in '05 Const.)		\$38,156	\$2.64	\$3,750	New Burne
	West Concord Fire	Interim Fire Chief							D :: "		24 hours a				
15		Mark Cotreau	1000	office/garage,	F 00.4	фE70.000	M4 470 000	1000	Building		day 7 days a	<b>645 507</b>	<b>**</b>	A4 F07	system
15	Main Street	318-3450	1932	& living	5,204	\$570,000	\$1,170,900	1990	Rehab	yes	week	\$15,567	\$2.99	\$1,527	adequate
	COLIC	0													Name Daile
	CCHS	George Gower	1001	Cabaal 0 10	040.007		#00 004 0F0	0000	roof and wall		ala ilu	#000 050	φ.43	ΦE0 000	New Boiler
16	500 Walden Street Sanborn Middle	318-1400	1961	School 9-12	242,027	\$25,420,000	\$36,304,050	2003	repair	none	daily	\$380,250	\$1.57	\$50,000	
		Karan Lana							modular						Boilers -
	School	Karen Lane	4000	0-1100	404.070	Φ7.040.000	040 044 700	0000	classroom,		at a the	#400 070	<b>#</b> 4.00	]	Installed 19
17	835 Old Marlboro Rd	318-1380	1969	School 6-8	101,072	\$7,646,000	\$13,644,720	2002		none	daily	\$139,370	\$1.38	1	Cleaver
	Peabody Middle	In							energy						Boilers
1	School 1231	James Halliday	4070	0-1100	00.011	<b>#4.400.000</b>	#0.040.70F	0000	efficient		at a the	#00 070	<b>.</b>	]	installed 1
18	Old Marlboro Rd	318-1360	19/0	School 6-8	68,911	\$4,123,000	\$9,313,785	2003	3 - 3,	none	daily	\$98,670	\$1.43	1	should last
18	M # O - b I	Dhil Daninaa							new school						New Boilers
i	Alcott School	Phil Benincasa					40		under				**		2002 to be
19	Laurel Street	318-1300	1953	School K-5	59,832	\$4,154,602	\$8,077,320	2003	construction	none	daily	\$125,000	\$2.09	(	moved to

	Con	cord, Massachusetts B	uilding Inventory	y	August 8, 2003											
		Α	В	С	D	E	F	G	Н	1	J	K	L	M	N	0
		BUILDING & ADDRESS	BUILDING MANAGER & PHONE NUMBER	DATE BUILT	BUILDING USE	SQUARE FOOTAGE	INSURED VALUE 08/01/2000	REPLACEMENT COST 01/01/2003 (see note 1)	DATE OF MOST RECENT WORK	DESCRIPTION OF MOST RECENT WORK	KNOWN CODE COMPLIANCE ISSUES	OCCUPANCY PATTERNS	ANNUAL ENERGY COSTS 2004 BUDGETS	ENERGY COSTS PER SQUARE FOOT	WATER & SEWER COSTS	HVAC SYSTEMS
Scho	20	Thoreau School 20 Pleasant Street	Alexander Popp 318-1320	1958	School K-5	40,495	\$3,402,000	\$5,466,825	1995	10,500 sf addition	none	daily	\$93,500	\$2.31		Boilers good until 2015
	21	Willard School 185 Powder Mill Rd	P. Fernandes 318-1340		School K-5	47,248	\$3,764,000	\$6,378,480	2002	roof repairs 5 yr. Life		daily	\$84,000	\$1.78		Boilers 15 yrs old. Replacement
	22	Ripley School Merriam Road		c.1958	School Admin.	56,230	\$4,123,000	\$7,591,050	2003	partial roof replacement	yes	daily	\$91,775	\$1.63		Boilers OK should be in FY'06 Budget
sed	23	Emerson Umbrella 10 Stow Street	Property Leased to Emerson Umbrella			43,553	\$5,469,000	\$5,444,125					\$32,000	\$0.73		
Lea	24	FOPAC 51 Walden Street	Leased to FOPAC Kathleen Chick		Music Dance & Theater Performances	19,492	\$1,332,000	\$2,533,960	2001 & 2002	Restroom renovation, exterior paint	none	daily	\$12,500	\$0.64		Heating - ? No AC
		Column Totals				795,244	\$72,558,423	\$112,527,470					\$1,259,934	\$1.58		

### Notes:

- Col G, replacement cost estimated using R S Means, cost estimating Manual 2003.
   Committee recommendation regarding new fire station appears in text of final report

### Concord, Massachusetts Bı

1	A	Р	Q	R	s	т	U	v	w	x
	BUILDING & ADDRESS	ROOF SYSTEM	OTHER ISSUES 1	OTHER ISSUES 2	OTHER ISSUES 3	USER OPINION - MEETING CURRENT SPACE NEEDS?	EXPECTED WORK 2003-2008	EXPECTED WORK 2009-2013	EXPECTED WORK 2014-2018	EXPECTED WORK 2019-2023
		5,100 sq ft	Building should be				roof, brownstone			Replace chillers
	Town House	new 2002;	protected by Sprinkler	ongoing brownstone			repairs, install			2021. est cost
01	22 Monument Square	500 sq ft new	System	repairs		yes	sprinkler system			\$40,000. Replace
	Visitors Information									
	Center 58	Slate roof,								
02	Main Street	1590 sq ft				yes				
		Tile Roof								
	Harvey Wheeler Center									
03	1276 Main Street	repaired				yes				
	Gun House	New roof								Roof repairs or
04	Lexington Road	1999/2000				yes				replacement 2023
					Need Decision to					
	Cemetery Building		structural - foundation		Renovate, or Demolish					
05	Court Lane	roof	failure	electrical & heating	and replace	yes				
	Hunt Recreation	Slate and				Yes, but additional				
		Asphault	has plans for addition but			space would be an	,			
06	Stow Street	Shingles	parking will not allow	repairs		asset	system			
	Hunt Pool & Shed									
07	90 Stow Street	ı	fence replacement			yes	fence replacement			
	Field House									
80	Lawsbrook Road					yes				
	Office, Garages &			Garage - doors, weather						Replace Air
	Storage 133			stripping, lighting,	repair concrete floors &				Replace Heating	Handlers, Tile
09	Keyes Road	EPDM	Sprinkler heads in offices	tramway	columns.	no			System	Flooring
	Salt Shed		minor wall repair							
10	133 Keyes Road		required			yes				
	Water & Sewer					no - need chemical				
l		low pitch	fenced enclosures -		garage - doors, heating	storage room, and				
11	Keyes Road	EPDM	generator, storage	no fire sprinkler system	& lighting	additional office				
	Planning/Land	0.500 #				A -l t - f t				
	Management	3,500 sq ft,	will require additional			Adequate for next				
12	141 Keyes Road Earth Products Site	installed 1994	storage	simplify HVAC controls		decade				
	Garage									
13	Rte. 126 at Rte. 2	metal				1400				
10	1116. 120 at NB. 2		Access 2nd floor, utilize	Upgrade lighting, wiring,		yes	Design for access,		new fire station?	
	Police & Fire Station	replace 2007-		generator, heating			etc.,FY'04 and	Replace roof 2008-	(see note 2,	
14	219 Walden Street	2012		system	replace windows & doors	no		2010	below)	
-	West Concord Fire	scheduled for		inadequate living,	Building too small and		ac acoigned		move to present	
		replacement	totally non compliant with	garage, & office space,	not enough land		Driveway & Apron		station 1? (see	
15	Main Street	'FY2003		and plumbing	-	no	re-paving		note 2 below)	
F-			Majority of roof will have	p.ay	a. anabio ioi ospanoioni.		Roof replacement	Phase I, Capital		
	CCHS		to be replaced in 3 to 5				2008, portion may	Construction	New Boilers	
16	500 Walden Street	230,000 sq ft	vears			no	be included as	Project FY2011,	required 2016	
1	Sanborn Middle	90,000 sq ft.	7			-	2004 replace	.,		
	School	Replaced					floors, & add drop		Roof replacement	
17	835 Old Marlboro Rd	1997 good				no	ceilings and new	New Boilers 2013	in 2017	
	Peabody Middle	56,000 sq ft					2004 replace	Old Alcott Boilers		
	School 1231	Replaced					floors, & add drop	to be installed in		Roof replacement
18	Old Marlboro Rd	2002. Should				no	ceilings and new	2008 or 2009. Est		2023
							New School under			
	Alcott School						construction.			
19	Laurel Street	58,400 Sq ft				no	Expected			
<u> </u>			1		l .	-	1	1	I .	1

### Concord, Massachusetts Bı

	A	Р	Q	R	s	т	U	V	w	x
	BUILDING & ADDRESS	ROOF SYSTEM	OTHER ISSUES 1	OTHER ISSUES 2	OTHER ISSUES 3	USER OPINION - MEETING CURRENT SPACE NEEDS?	EXPECTED WORK 2003-2008	EXPECTED WORK 2009-2013	EXPECTED WORK 2014-2018	EXPECTED WORK 2019-2023
							Preparation of			
	Thoreau School	53,700 sq ft	Window wall needs to be				plans & bid specs			
20	20 Pleasant Street	15 yrs old	replaced			no	for new school			
		53,000 sq ft.					Playground areas			
	Willard School	Repaired	Cafeteria needs				to be resurfaced			
21	185 Powder Mill Rd	2002. Should	renovation.			no	2003. Roof			
		Re-roofing to					FY '06 replace			
	Ripley School	be completed	Parking area to be				boilers(est			
22	Merriam Road	FY'04. 20 yr	repaved 2003			yes	\$150,000), and			
	Emerson Umbrella									
23	10 Stow Street									
		Slate &								
	FOPAC	Asphalt								
24	51 Walden Street	Shingle				no				

Column Totals

### Notes:

- Col G, replacement cc
   Committee recommen

### Concord, Massachusetts Bu

Υ BUILDING & ADDRESS NOTES **Town House** 22 Monument Square Col L - includes Chiller @ \$7,843. Visitors Information Col E - does not include 720 sq ft Center 58 porch. Col G - Construction cost Main Street \$400,000. Cost of Renovation \$2,900,000, Harvey Wheeler Center Col E - includes 6,000 sq ft 1276 Main Street basement **Gun House** Lexington Road Cemetery Building Col L & N estimated. Based on Court Lane annual operating costs of \$1,702 05 **Hunt Recreation** 90 Facility Stow Street **Hunt Pool & Shed** Energy costs included w/Hunt Rec 90 Stow Street Field House Energy costs included w/Hunt Rec Lawsbrook Road Facility Office, Garages & Storage 133 Pole barn for vehicle storage -Keyes Road future desire Salt Shed 133 Keyes Road Water & Sewer Division 135 11 Keyes Road Planning/Land Management No capital items required next 20 141 Keyes Road years, per John 12 Earth Products Site Garage Likely to be taken down in near Rte. 126 at Rte. 2 Present Plan is to design for items Police & Fire Station in Col Q, R & S in FY'04, and build in FY'05 219 Walden Street West Concord Fire Station 1201 If new station, this building would 15 Main Street no longer serve as fire station. CCHS 500 Walden Street Sanborn Middle Col U, 2003 TM voted \$425,000 School for similar work at Sanborn & 835 Old Marlboro Rd Peabody Bldgs Peabody Middle Col U, 2003 TM voted \$425,000 School 1231 for similar work at Sanborn & Old Marlboro Rd Peabody Bldgs **Alcott School** All expenses, etc., based on Laurel Street existing building

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ı	Α	Υ	1
	BUILDING & ADDRESS	NOTES	
		Expect Article to start building	
	Thoreau School	new Thoreau School in 2005, at	
20	20 Pleasant Street	2004 Town Meeting	
21	Willard School 185 Powder Mill Rd		
22	Ripley School Merriam Road		
23	Emerson Umbrella		
24	FOPAC 51 Walden Street		

### Notes:

1. Col G, replacement co

Column Totals

2. Committee recommen

# IV. Building Maintenance

In addition to capital expenditures, the Town must appropriate funds annually for the maintenance of Town-owned buildings. Such expenditures are funded in two ways: Annual operating budgets for the Town, and separately for the schools, are prepared and generally approved with minimal debate and no changes at Town Meeting. However, significant maintenance items are part of the Town Manager's Capital Plan and appear as Warrant Articles at Town Meeting.

The costs of maintenance are discussed in depth in the document "Committing to the Cost of Ownership - Maintenance and Repair of Public Buildings" (Special Report #60, published by the Building Research Board, National Research Council, American Public Works Association). This document makes the following significant points:

"Underfunding is a widespread and persistent problem that undermines maintenance and repair (M&R) of public buildings."

"An appropriate budget allocation for routine M&R for a substantial inventory of facilities will typically be in the range of 2 to 4 percent of the aggregate current replacement value of those facilities."

"Periodic facilities assessment is an essential step in effective facilities management."

"Effective maintenance management is also required to realize the full benefit of funds made available."

"Widespread underfunding of maintenance in public facilities.....can affect public health and safety, reduce productivity of public employees, and cause long-term financial losses when buildings must be prematurely renewed or replaced."

It is the Committee's belief that the Town should, in the future, anticipate all maintenance costs, not just those subject to routine appropriation. It is our recommendation that the Town anticipate, in its annual budgeting, maintenance costs between 2.5% and 3.0% of the replacement value of its buildings. For those buildings studied by the Committee, and excluding Emerson Umbrella and F.O.P.A.C. because they are maintained by their tenants, this amounts to approximately \$2,565,000 for 2003. See Sheet M-1.

With regard to leased facilities, the Committee recommends that the Town be sure that its rental agreements specify the level of maintenance required and then conduct whatever inspections are needed to assure compliance.

In an attempt to determine past maintenance costs, the Committee has first studied those experienced by the Concord Public School System (C.P.S.) whose facilities include three elementary schools, two middle school buildings, and the Ripley School. C.P.S. has been selected for the following reasons. C.P.S. represents a significant portion (approximately 45%) of the replacement value of Town-owned property. The annual maintenance budget is well documented. Moreover, an excellent record of unbudgeted C.P.S. maintenance costs approved at Town Meetings is available.

The C.P.S. operating budget for 2003 includes an amount of \$566,860 for Maintenance. This amount does not included custodial labor, but otherwise includes all labor, materials and equipment necessary for C.P.S. maintenance. This amounts to \$1.52 per square foot of C.P.S. building area.

In addition, over the past twelve years the Town Meeting has authorized the expenditure an average of \$502,256 (present value; see Note at bottom of Sheet M-3) per year, or \$1.34 / SF, for C.P.S. maintenance. This amount includes some improvements, but does not include any costs related to building additions or replacement, including modular classrooms. (See Sheet M-2.)

The total of \$2.86 / SF translates to 2.12% of the replacement value of the buildings involved, an amount at the lower end of the 2% to 4% range utilized by others as a general maintenance guideline.

The time frame utilized for this C.P.S. analysis (1992 through 2003) does include some items that may be considered extraordinary. During this period a major roofing replacement program was completed on most of the schools. In addition, a one-time authorization of \$1,000,000 was made for Technology Wiring. The impact of these costs is represented in the analysis. Although it is not likely that the roofing expenditures over the past twelve years will be repeated over the next twelve, the future of technology-related expenditures is difficult to predict and they could well increase.

Past maintenance costs for other Town buildings are less easily determined. Concord-Carlisle High School (C.C.H.S.) has a well-planned annual maintenance budget, but the Town Meeting warrant articles, amounting to \$9,132,500 in 1992 and 1995, do not distinguish between necessary maintenance and curriculum-inspired renovations. Assuming that the amount authorized was divided 50/50 between these two activities, the comparable number for C.C.H.S. is 2.90% of replacement cost. (See Sheet M-3.)

History is equally obscure for Town buildings other than schools. However, if we assume that the recent costs associated with the Harvey Wheeler building are truly extraordinary and non-representative of ongoing expenditures, then that building should not be considered in any analysis of maintenance cost history. Under these conditions, maintenance cost for Town buildings other than schools – and this includes major improvements to the Keyes Road facilities – has amounted, on an annualized basis, to 3.19% of replacement cost. (See Sheet M–4.)

Sheet M–1 constitutes a worksheet application of this analysis. It shows that, when utilizing a "2.75% of replacement value" budget, Concord has been underfunding maintenance and renovations by approximately \$292,000 per year. Had this expenditure been made, the Town would not be in the maintenance catch-up mode that now exists. The Committee believes that improved maintenance practices will, in the long run, make for better-maintained and longer-lived buildings at a reduced annual cost to the Town.

The Committee has developed a number of recommendations with respect to the maintenance of Town buildings. These are itemized in Section VI. C. Recommended Improvements in Facilities Management, below.

CONCORD MAINTENANCE BUDGET WORKSHE	ET				SHEET M-1
ITEM	VALUE		BUILDING	AREA	REPL. VAL.
		NO.			
1 CPS Buildings - Area (Square Feet)	373,868		CPS	373,868	\$50,472,180
2 CPS Buildings - Replacement Value	\$50,472,180		CCHS (Concord 69%)	166,999	\$25,049,795
3 CPS Buildings - 2004 Maintenance Budget	\$566,860	1	Town House	14,838	\$2,225,700
4 CPS Buildings - 2004 Maint. Cost / SF	\$1.52	2	Visitors Info Ctr.	1,820	\$400,000
5 CCHS Building - Area (Square Feet)	242,027	3	Harvey.Wheeler	18,000	\$3,600,000
6 CCHS Building - Replacement Value	\$36,304,050	4	Gun House	1,080	\$89,640
7 CCHS Building - 2004 Maintenance Budget	\$355,453	5	Cemetery Building	1,540	
8 CCHS Building - 2004 Maint. Cost / SF	\$1.47		Hunt Gym	12,492	<del>                                     </del>
9		7	Hunt Pool & Shed	3,750	
10 CCHS Area (Concord 69%)	166,999	8	Field House	600	
11 CCHS Replacement Value (Concord 69%)	\$25,049,795	9	Keyes Off., Gar., Stor.	18,268	
12 CCHS 2004 Maintenance Budget (Concord 69%)	\$245,263		Keyes Sait Shed	4,240	
13			Keyes Water & Sewer	9,700	<del></del>
14 CPS + CCHS Building Area (Concord share)	540,867		Keyes Planning	9,841	
15 CPS + CCHS Replacement Value (Concord share)	\$75,521,975		Earth Products	1,280	
16 CPS + CCHS Maintenance Budget (Concord share)	\$812,123		Police & Fire	14,431	· · · · · · · · · · · · · · · · · · ·
17			West Concord Fire	5,204	
18 Recommended Maintenance % of Repl. Value	2.75%				7 1,11 3,0 3
19 Recommended Concord Maint. Budget (2.75% x \$93,295,130)	\$2,565,616		Subtotal #1 through #15)	117,084	\$17,773,155
20 CPS Maintenance Scheduled	\$566,860	23	Emerson Umbrella	43,553	<del></del>
21 CCHS Maintenance Scheduled (Concord share)	\$245,263		FOPAC	19,492	<del></del>
22	1.2			10,102	42,555,555
23 Unscheduled Maintenance ((#19 -(#20+#21))	\$1,753,493		Subtotal Non-Schools	180,129	\$25,751,240
24 CPS Warrant Article Maintenance (12 year average)	\$502,256	<u> </u>	Subtotal Schools	540,867	
25 CCHS Warrant Article Maintenance (50% of 12 year average)	\$481,452			3.0,007	Ψ. Ο, ΟΣ 1, Ο / Ο
26 Other Concord Bldg. Warrant Article Maint. (w/o Harvey Wheeler)	\$301,794		Total	720,996	\$101,273,215
27 Other Concord Building Basic Maintenance @ \$1.50/sf	\$175,626	-	Total w/o E.U. & FOPAC	657,951	\$93,295,130
	ψ170,020		10ta: 11/0 E.O. G 1 OI AO	007,001	ψου,εου, 100
29 Deferred Maintenance Catchup ((#23-(#24+#25+#26+#27))	\$292,365				
NOTE: Emerson Umbrella and FOPAC excluded from this analy	ysis.				

			G COMMITTEE				SHEET M-2
			ANALYSIS				
ALI	CPS P	ROJECTS					
Α.	CHMM	ARV OF TO	UNN MEETING SCHOOL BU	III DING MAII	NT ADTICLE	C 1000 TUDO	LICH 0000
Λ.	SCIMINI	ANT OF TO	TANA MEETING SCHOOL BO	JILDING MAII	NI. ARTICLE	5 1992 IHRU	UGH 2003
	FPC	SCHOOL	PROJECT	COST	TOTAL	AREA	REPLACEMENT
	ID#				COST	(SF)	VALUE
	17	Sanborn	Improvements	\$240,000	\$547,500	101,072	\$13,644,720
		Sanborn	Gym Floor Replacement	\$95,000			2.5
		Sanborn	Renovations	\$212,500			,
	10	Doobody	Doof	<b>\$400.000</b>	<b>#4 000 045</b>	20.004	40.040.000
	10	Peabody	Roof Panaira	\$480,000		68,991	\$9,313,785
		Peabody Peabody	Roof Repairs	\$60,000			
			Improvements ADA Renovations	\$240,000			
		Peabody Peabody	Renovations	\$245,815			
		reabody	neliovations	\$212,500			
	19	Alcott	Window Wall	\$350,000	\$757,500	59,832	\$8,077,320
		Alcott	Floor Replacement	\$50,000	<b>V. C. 1,000</b>	00,002	ψο,οττ,οεο
		Alcott	Roof	\$357,500		٤	
	20	Thoreau	Parking Lot	\$150,000		40,495	\$5,466,825
		Thoreau	Roof	\$60,000			\$
		Thoreau	Floor Replacement	\$50,000			
		Thoreau	Roof	\$357,500			
	21	Willard	Roof	\$50,000	\$125,000	47,248	\$6 270 400
		Willard	Resurface Playground	\$75,000	\$125,000	47,240	\$6,378,480
		**iliai G	resurace r layground	Ψ/3,000			C-74-1-1
	22	Ripley	Roof	\$209,000	\$634,000	56,230	\$7,591,050
		Ripley	Roof Repairs	\$395,000			<b>4.7</b> 00.700.
		Ripley	Parking Lot Paving	\$30,000			
				-			
		CPS	Roof Repair	\$515,000	\$1,615,000		
		CPS	ADA	\$100,000			
		CPS	Technology Wiring	\$1,000,000	<b>AE 504 045</b>	070.000	450 450 400
			TOTAL		\$5,534,815	373,868	\$50,472,180
		Present Va	lue (See Note on Sheet M-3)		\$6,027,071		
			lue per Year		\$502,256	· · · · · · · · · · · · · · · · · · ·	
			•		-		
В			MAINTENANCE COSTS / SF		VERAGE)		\$1.34
			CE BUDGET / SF (2003-200				\$1.52
D	TOTAL	ANNUAL F	REQUIRED MAINTENANCE	BUDGET / S	F		\$2.86
E	ΤΟΤΔΙ	ANNIIAI F	PROJECTED MAINTENANC	F COST (DPI	SENT VALU	F)	\$1,070,535
-			mani biano	_ 0001 (FRI	LULIA TALU	-/	φ1,070,035
F	HISTOF	RICAL ANN	UAL MAINTENANCE BUDG	SET AS % OF	REPLACEM	ENT COST	2.12%

			COMMITTEE				SHEET M-3
MAII	NTENAN	CE COST /	ANALYSIS				
<u>CCH</u>	IS PROJI	<u>ECTS</u>					
A.	ESTIM	ATE OF TO	OWN MEETING CCHS MAII	NTENANCE A	RTICLES 199	2 THROUGH	2003
-	FPC	SCHOOL	PROJECT	COST	CONCORD	AREA	REPLACEMENT
	ID#	SOLIOOL	FROCEOT	0031	COST	(SF)	VALUE
						()	
	16	CCHS	Renovations (1992)	\$6,032,500	\$9,132,500	242,027	\$36,304,050
			Renovations (1995)	\$3,100,000	70,100,000		/
_							
			Concord Share (Area	69%	\$9,132,500	166,999	\$25,049,795
			and Replacement Value)		-		
	+ ,	Present Va	alue (See Note Below)		\$11,554,845		
			alue per Year		\$962,904		
		·					
B.1	TOWN	MEETING	WARRANT ARTICLE COS	TS / SF (12 Y	EAR AVERAG	E)	\$5.77
B.2	ASSUA	IED MAIN	LENANCE PORTION OF "E	⊥ 3" (50%)	\$481,452		\$2.88
C.	CCHS	MAINTENA	NCE BUDGET / SF (2003)				\$1.47
D.	TOTAL	ΔΝΝΙΙΔΙ	REQUIRED MAINTENANC	F RUDGET /	 		\$4.35
<b>.</b>	IOIAL	AIIIOAL	ILGONIED MANTENANO	L BODGLI7			φ4.55
E.	TOTAL	ANNUAL	PROJECTED MAINTENAN	CE COST (PF	RESENT VALU	IE)	\$726,940
F.	ністоі	RICAL AND	   NUAL MAINTENANCE BUI	CET AS % O	E DEDI ACEM	ENT COST	2.90%
	1110101	IIOAL AIVI	TOAL MAINTLINANCE BOL	JGLI AS A C	REPEACEW	LITI COST	2.90 /0
	NOTE:	Present V	alue is obtained by utilizir	ng the Buildin	g Cost Index	History as c	alculated
			ring News Record), a McG				ach of the
•			nt Articles is obtained by o	comparing the	e Index for 200	03 with that	
	of the \						
•							

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FAC	CILITIES	PLANNING COMMIT	TEE				SHEET M-4
MA	INTENAN	ICE COST ANALYSIS	S				
ALI	PROJE	CTS OTHER THAN S	CHOOLS				
Α.	SUMMA	RY OF TOWN MEET	ING NON-SCHOO	OL BUILDING	MAINTENAN	ICE ARTICL	ES 1992 - 2003
	FPC	BUILDING	PROJECT	COST	TOTAL	AREA	REPLACEMENT
	ID#				COST	(SF)	VALUE
						(0.)	
	1	Town House	HVAC	\$150,000	\$400,000	14,838	\$2,225,700
		Town House	Renovations	\$250,000			
	3	Harvey Wheeler	Renovations	\$1,750,000	\$1,750,000	18,000	\$3,600,000
	0 to 10	Vousa Dood	lana an	<b>64.045.000</b>	<b>#</b> 4 045 000	40.040	<b>A</b> 4400.046
	9 to 12	Keyes Road	Improvements	\$1,945,000	\$1,945,000	42,049	\$4,138,840
	15	Police and Fire	Remodeling	\$225,000	\$705,000	19,635	\$4,417,875
		Police and Fire	Renovations	\$380,000			,,,
		Police and Fire	Repairs	\$100,000			
		Subtotal		\$4,800,000	\$4,800,000	94,522	\$14,382,415
	2	Visitors Center				1,820	\$400,000
		Gun House			F*	1,080	
		Cemetery Building				1,540	<del></del>
		Hunt Gym				12,492	\$2,248,560
	7	Hunt Pool and Shed				3,750	<del> </del>
	8	Field House				600	
	13	Earth Products				1,280	
						117.004	¢17 770 155
						117,084	\$17,773,155
		Present Value (See N	Note on Sheet M-	3)	\$5,430,532		
		Present Value per Ye	ear		\$452,544		
5.4	<b>TO:</b>		NOT 000TO (0)	F (40 VEAD A	VED 4 05'		40.05
		IEETING MAINTENA NANCE COST FROM				iauro)	\$3.87 \$1.52
	TOTAL	NANCE COST FROM	I TOWN OPENA	I ING BODGE	\$630,512	igui <i>e)</i>	\$5.39
<u> </u>	IOIAL				Ψ000,512		φο.σο
WIT	HOUT H	ARVEY WHEELER		\$3,050,000	\$3,050,000	98,844	\$14,173,155
		Present Value (See N	ote on Sheet M-	3)	\$3,621,527		
		Present Value per Ye	ar		\$301,794		
D 0	TOWAL	EETING MAINTENA	NCE COSTO / OF	E /10 VEAD A	VEDACE\		00.05
	<del></del>	IEETING MAINTENA		<del></del>		iguro)	\$3.05 \$1.50
		NANCE COST FROM NNUAL PROJECTE				<del></del>	\$1.52 \$4.57
<u>U.Z</u> E		ANNUAL PROJECTE			·		\$4.57 \$452,037
_	TOTAL	NINUAL PROJECTE	P MUULI EMAIN	L COSI (FRI	LOLITI VALU	<b>-</b> /	φ <del>4</del> 52,037
F.	HISTOR	CAL ANNUAL MAIN	TENANCE BUDG	GET AS % OF	REPLACEMI	ENT COST	3.19%

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# V. Financial Models.

# A. Introduction

During the course of its studies the Committee prepared many "scenarios" or potential plans for Town facilities programs over the next twenty years. One by one, each was debated and most were discarded as being either inadequate to meet the Town's most basic facilities needs or too costly under present financial constraints. The Committee verified needs arising from building and system deterioration, but was not in a position to verify programmatic needs arising from changes in educational programs in the schools.

Two different plans survived this process and are offered for consideration, together with two variants on each plan illustrating the impact of operating budget overrides. One model represents what we believe to be the least financially burdensome plan that still meets the Town's minimum facilities needs: The "Five-Year Level Plan". The other represents the maximum level of financial commitment that the Committee believes that the Town is likely to undertake: The "Ambitious Plan."

The Five-Year Level Plan presents a schedule in which large projects are distributed at roughly five-year intervals over the next twenty years. The Ambitious Plan represents a relatively rapid schedule of work and would require higher levels of funding. Projects in this plan would commence at varying, but relatively short intervals.

The Committee voted overwhelmingly to recommend the "Five-Year Level" plan. This plan provides a generally consistent approach to large capital projects over the next twenty years without major spikes in the present value of the median real estate tax bill.

### B. The Model

The Committee thanks Jim Reynolds of the Long Range Planning Committee whose modeling concept and design were used by the Committee. He modified his spreadsheet model to help accommodate the Committee's needs and gave generously of his time and expertise.

The assumptions included in all the tax impact worksheets included: 3% effective inflation, 3% effective construction inflation, 1.5% annual valuation growth, 4.5% Town Long Term borrowing rate and a 3% short term borrowing rate. All future costs are given in present dollar values. These values were established by Mr. Jim Reynolds of the Long Range Planning Committee in consultation with the Town Treasurer, Mr. Tony Logalbo.

In its models the Committee included five projects completed in the last ten years or still under way because their impact on the Town's stream of payments on Debt Exclusion items is substantial and defined.

These are:	"High School, 1990s"	Bonded at	\$5 million	Completed:	9/94
	"Mattison Field"	Bonded at	\$0.8 million	Completed:	5/98
	"School Designs"	Bonded at	\$2.75 million	Completed:	2/03
	"Harvey Wheeler"	Bonded at	\$1.2 million	To be done:	1/04
	"Alcott School"	Bonded at	\$16.9 million	To be done:	10/04

# 1. The Five-Year Level Plan (Models "U" and "V")

The Five-Year Level Plan includes the following facilities projects with their starting dates:

<u>Year</u>	<u>Project</u>
2005	Thoreau School
2011	Phase I of C.C.H.S.
2016	Willard School
2021	Either: New Fire Station, or Middle School, or C.C.H.S. Phase II

Our intention was to develop a plan with the average spacing between projects of about five years. This would have shown the Thoreau School project starting in 2006 or 2007 since the Alcott Project started in 2002. A 2005 start for Thoreau provides the Concord Public Schools with more flexibility in housing students during construction, according to the Staging School Working Group report.

The start of Phase I of the High School approximately six years later in 2011 would "recover" the desired five year average spacing. Then Willard School would come in 2016.

The Five-Year Level Plan does not permit the Fire Station, Middle School and C.C.H.S. Phase II to all be completed over the next twenty years – only one of the three fits into twenty years of the Five-Year Level Plan. Early in 2003, the Committee recommended to the Selectmen that a working group with expertise in public safety be formed to evaluate the need for a possible new fire station in response to need stated during the building inventory.

The Project Assumptions charts and the Spreadsheets for Five-Year Level Model "U" and its variant "V" are on following pages. The Spreadsheet for Model "U" shows the impact of the Committee's Five-Year Level 20 year facilities plan assuming a 3.64% operating override each year. (As 3.64% appeared to be the average override for the last two fiscal years it was considered reasonable as a projection.) Spreadsheet "V" shows the overall tax impact of the Committee's Five-Year Level twenty-year facilities plan without an operating override.

# "FPC 5 yr Level" Project Assumptions for Worksheets "U" and "V"

Project Assumptions									
						Bond term			
	Debt Exclusion		BAN period	BAN		extension /		Project	Project LT
	Amount		extension /	Period,	Bond	acceleration,	Bond term,	Borrowing	Borrowing
Project	(FY 03 \$)	Start Date	acceleration	months	Issue Date	yrs	yrs	Premium	Rate
High School, 1990s	\$5,020,000	Sep-94			Sep-94		20		4.5%
Mattison Field	\$840,000	May-98			May-98		10		4.4%
School Designs	\$2,750,000	Feb-03			Feb-03		3		1.51%
Harvey Wheeler	\$1,200,000	Jul-02	0	18	Jan-04	2	12	-0.5%	4.0%
Alcott School	\$16,900,000	Oct-02	0	21	Oct-04	0	20	0.0%	4.5%
Thoreau School	\$16,700,000	Jul-05	0	21	Apr-07	0	20	0.0%	4.5%
Willard School	\$16,700,000	Jul-16	0	21	Apr-18	0	20	0.0%	4.5%
Middle School	\$0	Jul-13	0	18	Jan-15	0	10	0.0%	4.5%
High School Phase I	\$17,500,000	Jul-11	0	21	Apr-13	0	20	0.0%	4.5%
High School Phase II	\$0	Jul-21	0	18	Jan-23	0	10	0.0%	4.5%
West Concord Fire/Police Station	\$0	Jul-25	0	18	Jan-27	0	10	0.0%	4.5%
Waste Water Treatment	\$0	Jan-04	0	18	Jul-05	0	10	0.0%	4.5%
HS II , MS or Fire Station	\$15,400,000	Jul-21	0	21	Apr-23	0	20	0.0%	
Land Acquisition	\$0	Jan-25	0	18			10	0.0%	4.5%

Only blue-shaded cells contain user inputs and may be edited.

## Notes:

Alcott Design fees are included in the \$16.9 million cost. The project cost has been reduced as of Winter 2003 estimates.

Thoreau and Willard design fees are not included in the \$16.7 million cost estimates; they are captured in the School Designs project.

Estimates for Thoreau and Willard have not been reduced based upon the Alcott experience because these savings may be project-specific. Amounts for Mattison and the 1990s High School projects reflect the balances as of the beginning of FY 2003, not the original balances. Because the tool requires each project to have a Start Date, projects that are not currently in active discussions have been given start dates of January 2025, outside the planning horizon.

Thoreau, Willard and High School Phase I have later starts than the "Ambitious" plan This plan only permits either High School Phase II, Middle School OR Fire Station in year 2021.

Property Tax Levy				FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012
		Propert	y Tax Levy	2002	2000	200 .	2000	2000	1 1 2007	1 1 2000	2000	1 1 2010	20	2012
		Previous Yea		\$34,828	\$38,958	\$42,172	\$45,393	\$48,862	\$52,595	\$56,613	\$60,938	\$65,594	\$70,605	\$75,999
		Prop 2 1.	/2 Increase	\$871	\$974	\$1,054	\$1,135	\$1,222	\$1,315	\$1,415	\$1,523	\$1,640	\$1,765	\$1,900
			lew Growth	\$1,010	\$761	\$633	\$681	\$733	\$789	\$849	\$914	\$984	\$1,059	\$1,140
	Operati	ng Override I	Percentage			3.64%	3.64%	3.64%	3.64%	3.64%	3.64%	3.64%	3.64%	3.64%
			Overrides	\$2,249	\$1,479	\$1,535	\$1,652	\$1,779	\$1,914	\$2,061	\$2,218	\$2,388	\$2,570	\$2,76
		Levy w/o Deb		\$38,958	\$42,172	\$45,393	\$48,862	\$52,595	\$56,613	\$60,938	\$65,594	\$70,605	\$75,999	\$81,80
		ebt Exclusion		\$842	\$713	\$1,994	\$2,392	\$3,303	\$2,721	\$3,765	\$3,630	\$3,348	\$3,227	\$3,14
	Total Pi	roperty Tax L	.evy (000s)	\$39,800	\$42,885	\$47,388	\$51,253	\$55,897	\$59,334	\$64,703	\$69,224	\$73,953	\$79,227	\$84,95
		Tax / \$100	0 Valuation	\$9.84	\$9.73	\$10.59	\$11.29	\$12.13	\$12.68	\$13.62	\$14.36	\$15.12	\$15.95	\$16.85
Median Ta	ax Bill Share of S			\$110	ψ9.73 \$95	\$260	\$308	\$419	\$340	\$463	\$440	\$400	\$380	\$364
Wedian 18	ax bill offare of o	Total Medi		\$5,2 <b>08</b>	\$ <b>5,684</b>	\$6,188	\$ <b>6,594</b>	\$ <b>7,085</b>	\$ <b>7,409</b>	\$ <b>7,960</b>	\$8, <b>390</b>	\$ <b>8,831</b>	\$ <b>9,321</b>	\$9, <b>847</b>
			=	· ,	· ,		. ,	· ,	· ,	. ,	· ,	· ,	. ,	• ,
Present Value of I	Present Value of Debt Exclusion Burden on Median Ta				\$95	\$245	\$282	\$372	\$293	\$388	\$358	\$316	\$291	\$271
	Present Value of Median Ta				\$5,684	\$5,832	\$6,034	\$6,295	\$6,391	\$6,667	\$6,822	\$6,971	\$7,144	\$7,327
		sent ValueTa				2.6%	3.5%	4.3%	1.5%	4.3%	2.3%	2.2%	2.5%	2.69
	Debt Exclusion B			2.1%	1.7%	4.2%	4.7%	5.9%	4.6%	5.8%	5.2%	4.5%	4.1%	3.7%
Overall Annual Tax I	ncrease before P	resent Value	Calculation			8.9%	6.6%	7.4%	4.6%	7.4%	5.4%	5.3%	5.5%	5.6%
Debt Exclusion Costs	1													
	Project Cost	Start Date	Finish Date	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012
High School, 1990s	\$5,020,000	Sep-94	Sep-94	\$461,200	\$429,164	\$411,724	\$388,316	\$290,815	\$276,204	\$250,349	\$228,799	\$134,362	\$96,672	-\$64,998
Mattison Field	\$840,000	May-98	May-98	\$181,028	\$160,428	\$145,365	\$150,650	\$145,463	\$140,213	\$134,838	\$104,400	\$0	\$0	\$(
School Designs	\$2,750,000	Feb-03	Feb-03	\$152,000	\$20,763	\$958,192	\$944,350	\$930,508	\$0	\$0	\$0	\$0	\$0	\$
Harvey Wheeler	\$1,200,000	Jul-02	Jan-04	\$0	\$11,250	\$35,250	\$148,000	\$144,000	\$140,000	\$136,000	\$132,000	\$128,000	\$124,000	\$120,000
Alcott School	\$16,900,000	Oct-02	Oct 04	¢Λ	<b>0100 105</b>	<b>#440 COE</b>	\$760,500	O1 FOC 400	\$1,548,463	\$1,510,438	\$1,472,413	\$1,434,388	\$1,396,363	\$1,358,33
			Oct-04	\$0	\$190,125	\$443,625	φ/00,300	\$1,586,488						
Thoreau School	\$18,248,541	Jul-05	Apr-07	\$0	\$190,125 \$0	\$0	\$00,300	\$205,296	\$615,888	\$1,733,611	\$1,692,552	\$1,651,493	\$1,610,434	\$1,569,37
Thoreau School Willard School	\$18,248,541 \$25,260,248	Jul-05 Jul-16	Apr-07 Apr-18	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$205,296 \$0	\$615,888 \$0	\$1,733,611 \$0	\$1,692,552 \$0	\$1,651,493 \$0	\$1,610,434 \$0	\$1,569,37 \$
Thoreau School Willard School Middle School	\$18,248,541 \$25,260,248 \$0	Jul-05 Jul-16 Jul-13	Apr-07 Apr-18 Jan-15	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$205,296 \$0 \$0	\$615,888 \$0 \$0	\$1,733,611 \$0 \$0	\$1,692,552 \$0 \$0	\$1,651,493 \$0 \$0	\$1,610,434 \$0 \$0	\$1,569,379 \$0 \$0
Thoreau School Willard School Middle School High School Phase	\$18,248,541 \$25,260,248 \$0 \$22,833,531	Jul-05 Jul-16 Jul-13 Jul-11	Apr-07 Apr-18 Jan-15 Apr-13	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$205,296 \$0 \$0 \$0	\$615,888 \$0 \$0 \$0	\$1,733,611 \$0 \$0 \$0	\$1,692,552 \$0 \$0 \$0	\$1,651,493 \$0 \$0 \$0	\$1,610,434 \$0 \$0 \$0	\$1,569,375 \$0 \$0 \$161,396
Thoreau School Willard School Middle School High School Phase I High School Phase II	\$18,248,541 \$25,260,248 \$0 \$22,833,531 \$0	Jul-05 Jul-16 Jul-13	Apr-07 Apr-18 Jan-15	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$205,296 \$0 \$0	\$615,888 \$0 \$0	\$1,733,611 \$0 \$0	\$1,692,552 \$0 \$0	\$1,651,493 \$0 \$0	\$1,610,434 \$0 \$0	\$1,569,379 \$1 \$1 \$161,390
Thoreau School Willard School Middle School High School Phase	\$18,248,541 \$25,260,248 \$0 \$22,833,531 \$0	Jul-05 Jul-16 Jul-13 Jul-11	Apr-07 Apr-18 Jan-15 Apr-13	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$205,296 \$0 \$0 \$0 \$0	\$615,888 \$0 \$0 \$0 \$0	\$1,733,611 \$0 \$0 \$0 \$0	\$1,692,552 \$0 \$0 \$0 \$0	\$1,651,493 \$0 \$0 \$0 \$0	\$1,610,434 \$0 \$0 \$0 \$0	\$1,569,375 \$0 \$0
Thoreau School Willard School Middle School High School Phase II West Concord Fire/Police Station  // Aste Water Treatment	\$18,248,541 \$25,260,248 \$0 \$22,833,531 \$0	Jul-05 Jul-16 Jul-13 Jul-11 Jul-21	Apr-07 Apr-18 Jan-15 Apr-13 Jan-23	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$205,296 \$0 \$0 \$0	\$615,888 \$0 \$0 \$0	\$1,733,611 \$0 \$0 \$0	\$1,692,552 \$0 \$0 \$0	\$1,651,493 \$0 \$0 \$0	\$1,610,434 \$0 \$0 \$0	\$1,569,37 \$1 \$1 \$161,39 \$1
Thoreau School Willard School Middle School High School Phase I West Concord	\$18,248,541 \$25,260,248 \$0 \$22,833,531 \$0	Jul-05 Jul-16 Jul-13 Jul-11 Jul-21	Apr-07 Apr-18 Jan-15 Apr-13 Jan-23	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$205,296 \$0 \$0 \$0 \$0	\$615,888 \$0 \$0 \$0 \$0	\$1,733,611 \$0 \$0 \$0 \$0 \$0	\$1,692,552 \$0 \$0 \$0 \$0	\$1,651,493 \$0 \$0 \$0 \$0 \$0	\$1,610,434 \$0 \$0 \$0 \$0	\$1,569,37 \$ \$ \$161,39 \$

Note: CPI data pulled from  $\underline{\text{www.bls.gov}}$  measures calendar year. Concord's Financial Year runs July 1 - June 30. The six-month offsets create mild distortions in the early years of projects, but these smooth out over time and are deemed insignificant for the purposes of this planning tool.

\$0

Jan-25

TOTAL DEBT EXCLUSION PAYMENTS

Y/E TOTAL DEBT EXCLUSION BALANCE

Jul-26

\$0

\$794,228

\$6,630,000

\$0

\$811,730

\$16,905,000

\$0

\$1,994,155

\$20,685,000

\$0

\$2,391,816

\$24,293,333

\$0

\$3,302,569

\$23,538,333

\$0

\$2,720,767

\$22,521,667

\$0

\$3,765,236

\$25,583,802

\$0

\$3,630,164

\$29,129,270

\$0

\$3,348,243

\$32,191,406

\$0

\$3,227,468

\$36,653,541

\$0

\$3,144,110

\$35,153,541

**Land Acquisition** 

# "FPC 5 yr Level" with 3.64% Operating Override - Worksheet "U"

FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
\$81,806	\$88,056	\$94,783	\$102,024	\$109,819	\$118,209	\$127,240	\$136,962	\$147,425	\$158,689	\$170,813	\$183,863
\$2,045	\$2,201	\$2,370	\$2,551	\$2,745	\$2,955	\$3,181	\$3,424	\$3,686	\$3,967	\$4,270	\$4,597
\$1,227	\$1,321	\$1,422	\$1,530	\$1,647	\$1,773	\$1,909	\$2,054	\$2,211	\$2,380	\$2,562	\$2,758
3.64%	3.64%	3.64%	3.64%	3.64%	3.64%	3.64%	3.64%	3.64%	3.64%	3.64%	3.64%
\$2,978	\$3,205	\$3,450	\$3,714	\$3,997	\$4,303	\$4,632	\$4,985	\$5,366	\$5,776	\$6,218	\$6,693
\$88,056	\$94,783	\$102,024	\$109,819	\$118,209	\$127,240	\$136,962	\$147,425	\$158,689	\$170,813	\$183,863	\$197,910
\$3,268	\$3,957	\$3,841	\$4,015	\$4,084	\$4,541	\$5,976	\$5,808	\$5,640	\$5,775	\$7,701	\$7,472
\$91,323	\$98,740	\$105,866	\$113,834	\$122,293	\$131,781	\$142,938	\$153,233	\$164,329	\$176,588	\$191,563	\$205,381
\$17.85	\$19.01	\$20.09	\$21.28	\$22.52	\$23.91	\$25.55	\$26.99	\$28.51	\$30.19	\$32.26	\$34.08
\$373	\$445	\$426	\$438	\$439	\$481	\$624	\$598	\$572	\$577	\$758	\$724
\$10,429	\$11,109	\$11,735	\$12,432	\$13,158	\$13,970	\$14,929	\$15,767	\$16,659	\$17,637	\$18,850	\$19,911
\$270	\$312	\$290	\$290	\$282	\$300	\$378	\$351	\$326	\$319	\$407	\$378
\$7,534	\$7,792	\$7,991	\$8,219	\$8,446	\$8,705	\$9,032	\$9,262	\$9,500	\$9,765	\$10,133	\$10,392
2.8%	3.4%	2.6%	2.9%	2.8%	3.1%	3.8%	2.5%	2.6%	2.8%	3.8%	2.6%
3.6%	4.0%	3.6%	3.5%	3.3%	3.4%	4.2%	3.8%	3.4%	3.3%	4.0%	3.6%
5.9%	6.5%	5.6%	5.9%	5.8%	6.2%	6.9%	5.6%	5.7%	5.9%	6.9%	5.6%

FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
-\$181,692	-\$288,950	-\$288,950	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$116,000	\$112,000	\$108,000	\$104,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$1,320,313	\$1,282,288	\$1,244,263	\$1,206,238	\$1,168,213	\$1,130,188	\$1,092,163	\$1,054,138	\$1,016,113	\$978,088	\$902,038	\$864,013
\$1,528,315	\$1,487,256	\$1,446,197	\$1,405,138	\$1,364,078	\$1,323,019	\$1,281,960	\$1,240,901	\$1,199,842	\$1,158,782	\$1,076,664	\$1,035,605
\$0	\$0	\$0	\$0	\$284,178	\$852,533	\$2,399,724	\$2,342,888	\$2,286,052	\$2,229,217	\$2,115,546	\$2,058,710
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$484,573	\$1,363,984	\$1,331,679	\$1,299,374	\$1,267,069	\$1,234,764	\$1,202,459	\$1,170,155	\$1,137,850	\$1,105,545	\$1,040,935	\$1,008,630
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$303,795	\$2,565,379	\$2,504,620
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$3,267,509	\$3,956,577	\$3,841,188	\$4,014,749	\$4,083,538	\$4,540,504	\$5,976,305	\$5,808,081	\$5,639,856	\$5,775,426	\$7,700,562	\$7,471,578
\$34,141,114	\$32,666,114	\$31,653,687	\$30,378,687	\$29,366,260	\$28,116,260	\$27,103,833	\$31,792,215	\$36,488,171	\$41,351,554	\$46,047,509	\$45,202,509

# "FPC 5 yr Level" no Operating Override - Worksheet "V"

Property Tax Levy					,		<b>3</b>							
			_	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012
			ty Tax Levy											
		Previous Ye	•	\$34,828 \$871	\$38,958	\$42,172	\$45,393	\$47,209	\$49,098	\$51,061	\$53,104	\$55,228	\$57,437	\$59,735
	Operating Override Per Operating C Subtotal: Levy w/o Debt E Debt Exclusion P Total Property Tax Lev  Tax / \$1000 V Median Tax Bill Share of Service on Debt E Total Median resent Value of Debt Exclusion Burden on Median Present Value of Median				\$974	\$1,054	\$1,135	\$1,180	\$1,227	\$1,277	\$1,328	\$1,381	\$1,436	\$1,493
			New Growth	\$1,010	\$761	\$633	\$681	\$708	\$736	\$766	\$797	\$828	\$862	\$896
	Operat					3.64%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
				\$2,249	\$1,479	\$1,535	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal:	Levy w/o De	bt Exclusion	\$38,958	\$42,172	\$45,393	\$47,209	\$49,098	\$51,061	\$53,104	\$55,228	\$57,437	\$59,735	\$62,124
				\$842	\$713	\$1,994	\$2,392	\$3,303	\$2,721	\$3,765	\$3,630	\$3,348	\$3,227	\$3,144
	Total P	roperty Tax	Levy (000s)	\$39,800	\$42,885	\$47,388	\$49,601	\$52,400	\$53,782	\$56,869	\$58,858	\$60,785	\$62,962	\$65,268
		_ ,,												
		•		\$9.84	\$9.73	\$10.59	\$10.92	\$11.37	\$11.49	\$11.97	\$12.21	\$12.42	\$12.68	\$12.95
Median Ta	x Bill Share of S			\$110	\$95	\$260	\$308	\$419	\$340	\$463	\$440	\$400	\$380	\$364
		Total Med	ian Tax Bill	\$5,208	\$5,684	\$6,188	\$6,381	\$6,641	\$6,716	\$6,996	\$7,134	\$7,259	\$7,408	\$7,565
Dunner Value of D	Nalat Evaluaian B	undan an NA	dian Tay Dill	<b>0110</b>	ФО.	Φ0.45	Ф000	<b>#070</b>	Ф000	Ф000	Φ0.50	<b>#040</b>	<b>#</b> 004	<b>#074</b>
Present value of L				\$110 \$5,208	\$95	\$245	\$282	\$372	\$293	\$388	\$358	\$316	\$291	\$271
	Percent Present ValueTax Incre				\$5,684	\$5,832	\$5,839	\$5,901	\$5,793	\$5,859	\$5,801	\$5,730	\$5,677	\$5,629
Doroant D					1.7%	2.6% 4.2%	0.1%	1.1%	-1.8% 5.1%	1.1%	-1.0% 6.2%	-1.2% 5.5%	-0.9%	-0.8%
				2.1%	1.7%	8.9%	4.8% 3.1%	6.3% 4.1%	1.1%	6.6% 4.2%	2.0%	1.7%	5.1% 2.1%	4.8% 2.1%
Overali Affiliali Tax III	icrease before r	resent value	Calculation			0.9%	3.1%	4.1%	1.1%	4.2%	2.0%	1.7%	2.1%	2.1%
Debt Exclusion Costs	1													
	Project Cost	Start Date	Finish Date	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012
High School, 1990s	\$5,020,000	Sep-94	Sep-94	\$461,200	\$429,164	\$411,724	\$388,316	\$290,815	\$276,204	\$250,349	\$228,799	\$134,362	\$96,672	-\$64,998
Mattison Field	\$840,000	May-98	May-98	\$181,028	\$160,428	\$145,365	\$150,650	\$145,463	\$140,213	\$134,838	\$104,400	\$0	\$0	\$0
School Designs	\$2,750,000	Feb-03	Feb-03	\$152,000	\$20,763	\$958,192	\$944,350	\$930,508	\$0	\$0	\$0	\$0	\$0	\$0
Harvey Wheeler	\$1,200,000	Jul-02	Jan-04	\$0	\$11,250	\$35,250	\$148,000	\$144,000	\$140,000	\$136,000	\$132,000	\$128,000	\$124,000	\$120,000
Alcott School	\$16,900,000	Oct-02	Oct-04	\$0	\$190,125	\$443,625	\$760,500	\$1,586,488	\$1,548,463	\$1,510,438	\$1,472,413	\$1,434,388	\$1,396,363	\$1,358,338
Thoreau School	\$18,248,541	Jul-05	Apr-07	\$0	\$0	\$0	\$0	\$205,296	\$615,888	\$1,733,611	\$1,692,552	\$1,651,493	\$1,610,434	\$1,569,375
Willard School	\$25,260,248	Jul-16	Apr-18	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Middle School	\$0	Jul-13	Jan-15	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
High School Phase I	\$22,833,531	Jul-11	Apr-13	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$161,396
High School Phase II	\$0	Jul-21	Jan-23	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
West Concord	·													
Fire/Police Station	\$0	Jul-25	Jan-27	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Waste Water Treatment	\$0	Jan-04	Jul-05	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Another Big														
Construction Project	\$27,003,993	Jul-21	Apr-23	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Land Acquisition	\$0	Jan-25	Jul-26	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	TOTAL DEB	T EXCLUSION	PAYMENTS	\$794,228	\$811,730	\$1,994,155	\$2,391,816	\$3,302,569	\$2,720,767	\$3,765,236	\$3,630,164	\$3,348,243	\$3,227,468	\$3,144,110
	Y/E TOTAL DE	BT EXCLUSIO	N BALANCE	\$6.630,000	\$16,905,000	\$20,685,000	\$24,293,333	\$23,538,333	\$22,521,667	\$25,583,802	\$29,129,270	\$32,191,406	\$36,653,541	\$35,153,541
	., J IAL DL	/\J_0010		ψ0,000,000	φ.ο,οοο,οοο	Ψ=0,000,000	Ψ= 1,=00,000	Ψ=0,000,000	Ψ==,021,007	Ψ20,000,002	Ψ=0,:20,270	Ψ0Ξ,101,π00	φου,ουσ,ο ι	\$55,155,571

Note: CPI data pulled from <a href="www.bls.qov">www.bls.qov</a> measures calendar year. Concord's Financial Year runs July 1 - June 30. The six-month offsets create mild distortions in the early years of projects, but these smooth out over time and are deemed insignificant for the purposes of this planning tool.

# 2. The Ambitious Plan (Models "S" and "W")

The Ambitious Plan includes the following facilities projects with their starting dates:

<u>Year</u>	<u>Project</u>
2004	Thoreau School
2004	Phase I of C.C.H.S.
2007	Phase II of C.C.H.S.
2011	Willard School
2012	Fire/Police Station
2018	Middle School

Details of the projects and timing of the Ambitious Plan are included on the Project Assumptions sheet for Worksheets "S" and "W." Worksheet "S" shows the tax impact of the Ambitious twenty-year facilities plan with a 3.64% operating override, while Worksheet "W" shows the Ambitious plan without an operating override.

The Assumptions Charts and Spreadsheets for these two models are on the following pages.

Project Assumptions									
						Bond term			
	<b>Debt Exclusion</b>		BAN period	BAN		extension /		Project	Project LT
	Amount		extension /	Period,	Bond	acceleration,	Bond term,	Borrowing	Borrowing
Project	(FY 03 \$)	Start Date	acceleration	months	Issue Date	yrs	yrs	Premium	Rate
High School, 1990s	\$5,020,000	Sep-94			Sep-94		20		4.5%
Mattison Field	\$840,000	May-98			May-98		10		4.4%
School Designs	\$2,750,000	Feb-03			Feb-03		3		1.51%
Harvey Wheeler	\$1,200,000	Jul-02	0	18	Jan-04	2	12	-0.5%	4.0%
Alcott School	\$16,900,000	Oct-02	0	21	Oct-04	0	20	0.0%	4.5%
Thoreau School	\$16,700,000	Jul-04	0	21	Apr-06	0	20	0.0%	4.5%
Willard School	\$16,700,000	Jul-11	0	21	Apr-13	0	20	0.0%	4.5%
Middle School	\$27,000,000	Jun-18	0	21	Mar-20	0	20	0.0%	4.5%
High School Phase I	\$17,500,000	Jun-04	0	21	Mar-06	0	20	0.0%	4.5%
High School Phase II	\$15,400,000	Jan-07	0	21	Oct-08	0	20	0.0%	4.5%
West Concord Fire/Police Station	\$15,000,000	Jun-12	0	21	Mar-14	0	20	0.0%	4.5%
Waste Water Treatment	\$0	Jan-04	0	18	Jul-05	0	10	0.0%	4.5%
Another Big Construction Project	\$0	Jan-25	0	18	Jul-26	0	10	0.0%	4.5%
Land Acquisition	\$0	Jan-25	0	18	Jul-26	0	10	0.0%	4.5%

Only blue-shaded cells contain user inputs and may be edited.

# Notes:

Alcott Design fees are included in the \$16.9 million cost. The project cost has been reduced as of Winter 2003 estimates. Thoreau and Willard design fees are not included in the \$16.7 million cost estimates; they are captured in the School Designs project. Estimates for Thoreau and Willard have not been reduced based upon the Alcott experience because these savings may be project-specific. Amounts for Mattison and the 1990s High School projects reflect the balances as of the beginning of FY 2003, not the original balances. Because the tool requires each project to have a Start Date, projects that are not currently in active discussions have been given start dates of January 2025, outside the planning horizon.

Property Tax Levy				"Amb	itious" witl	h 3.64% Op	erating Ov	erride - W	orksheet "	S"				
				FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012
			rty Tax Levy											
			ear Tax Levy	\$34,828	\$38,958	\$42,172	\$45,393	\$48,862	\$52,595	\$56,613	\$60,938	\$65,594	\$70,605	\$75,999
			1/2 Increase	\$871	\$974	\$1,054	\$1,135	\$1,222	\$1,315	\$1,415	\$1,523	\$1,640	\$1,765	\$1,900
			New Growth	\$1,010	\$761	\$633	\$681	\$733	\$789	\$849	\$914	\$984	\$1,059	\$1,140
	Operat	ing Override				3.64%	3.64%	3.64%	3.64%	3.64%	3.64%	3.64%	3.64%	3.64%
			g Overrides	\$2,249	\$1,479	\$1,535	\$1,652	\$1,779	\$1,914	\$2,061	\$2,218	\$2,388	\$2,570	\$2,766
		Levy w/o De		\$38,958	\$42,172	\$45,393	\$48,862	\$52,595	\$56,613	\$60,938	\$65,594	\$70,605	\$75,999	\$81,806
		Debt Exclusion		\$842	\$713	\$2,044	\$2,840	\$4,184	\$5,099	\$5,117	\$5,274	\$5,505	\$5,232	\$5,197
	Total P	roperty Tax	Levy (000s)	\$39,800	\$42,885	\$47,437	\$51,701	\$56,779	\$61,711	\$66,055	\$70,867	\$76,110	\$81,231	\$87,003
		Tax / \$10	00 Valuation	\$9.84	\$9.73	\$10.60	\$11.38	\$12.32	\$13.19	\$13.91	\$14.70	\$15.56	\$16.36	\$17.26
Median Tax	Bill Share of S	•		\$110	\$95	\$267	\$365	\$530	\$637	\$630	\$639	\$657	\$616	\$602
			lian Tax Bill	\$5,208	\$5,684	\$6,194	\$6,651	\$7,196	\$7,706	\$8,126	\$8,590	\$9,089	\$9,557	\$10,085
Present Value of De				\$110	\$95	\$252	\$334	\$471	\$549	\$527	\$520	\$519	\$472	\$448
		t Value of Me		\$5,208	\$5,684	\$5,839	\$6,087	\$6,394	\$6,647	\$6,806	\$6,984	\$7,175	\$7,325	\$7,504
		esent ValueT				2.7%	4.2%	5.0%	4.0%	2.4%	2.6%	2.7%	2.1%	2.4%
	ebt Exclusion B			2.1%	1.7%	4.3%	5.5%	7.4%	8.3%	7.7%	7.4%	7.2%	6.4%	6.0%
Overall Annual Tax Inc	crease before F	resent Value	e Calculation			9.0%	7.4%	8.2%	7.1%	5.5%	5.7%	5.8%	5.2%	5.5%
Debt Exclusion Costs														
	Project Cost	Start Date	Finish Date	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012
High School, 1990s	\$5,020,000	Sep-94	Sep-94	\$461,200	\$429,164	\$411,724	\$388,316	\$290,815	\$276,204	\$250,349	\$228,799	\$134,362	\$96,672	-\$64,998
Mattison Field	\$840,000	May-98	May-98	\$181,028	\$160,428	\$145,365	\$150,650	\$145,463	\$140,213	\$134,838	\$104,400	\$0	\$0	\$0
School Designs	\$2,750,000	Feb-03	Feb-03	\$152,000	\$20,763	\$958,192	\$944,350	\$930,508	\$0	\$0	\$0	\$0	\$0	\$0
<u>Harvey Wheeler</u>	\$1,200,000	Jul-02	Jan-04	\$0	\$11,250	\$35,250	\$148,000	\$144,000	\$140,000	\$136,000	\$132,000	\$128,000	\$124,000	\$120,000
Alcott School	\$16,900,000	Oct-02	Oct-04	\$0	\$190,125	\$443,625	\$760,500	\$1,586,488	\$1,548,463	\$1,510,438	\$1,472,413	\$1,434,388	\$1,396,363	\$1,358,338
Thoreau School	\$17,717,030	Jul-04	Apr-06	\$0	\$0	\$0	\$199,317	\$597,950	\$1,683,118	\$1,643,255	\$1,603,391	\$1,563,528	\$1,523,665	\$1,483,801
Willard School	\$21,789,712	Jul-11	Apr-13	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$245,134
Middle School	\$43,327,074	Jun-18	Mar-20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
High School Phase I	\$18,565,750	Jun-04	Mar-06	\$0	\$0	\$49,772	\$248,479	\$489,231	\$1,262,666	\$1,207,275	\$1,172,108	\$1,109,871	\$1,033,035	\$976,932
High School Phase II	\$17,852,821	Jan-07	Oct-08	\$0	\$0	\$0	\$0	\$0	\$47,928	\$234,686	\$560,436	\$1,135,277	\$1,058,340	\$1,002,513
West Concord Fire/Police Station	\$20,158,746	Jun-12	Mar-14	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$75,595
Waste Water Treatment	\$0	Jan-04	Jul-05	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Another Big	ΨΟ	Juli 04	Jul 00	ΨΟ	ΨΟ	ΨΟ	ΨΟ	ΨΟ	Ψ	Ψ	ΨΟ	ΨΟ	ΨΟ	ΨΟ

Note: CPI data pulled from <a href="www.bls.gov">www.bls.gov</a> measures calendar year. Concord's Financial Year runs July 1 - June 30. The six-month offsets create mild distortions in the early years of projects, but these smooth out over time and are deemed insignificant for the purposes of this planning tool.

\$0

\$0

Jan-25

Jan-25

TOTAL DEBT EXCLUSION PAYMENTS

Y/E TOTAL DEBT EXCLUSION BALANCE

Jul-26

Jul-26

\$0

\$0

\$811,730

\$16,905,000

\$0

\$794,228

\$6,630,000

\$0

\$0

\$2,043,928

\$20,685,000

\$0

\$0

\$2,839,612

\$28,934,771

\$0

\$0

\$4,184,454

\$37,250,466

\$0

\$0

\$5,098,591

\$45,304,494

\$0

\$0

\$5,116,841

\$52,875,189

\$0

\$0

\$5,273,546

\$56,287,780

\$0

\$0

\$5,505,426

\$54,787,780

\$0

\$0

\$5,232,074

\$57,336,846

\$0

\$0

\$5,197,316

\$60,300,051

Construction Project

Land Acquisition

# "Ambitious" with 3.64% Operating Override - Worksheet "S"

FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
							•				
\$81,806	\$88,056	\$94,783	\$102,024	\$109,819	\$118,209	\$127,240	\$136,962	\$147,425	\$158,689	\$170,813	\$183,863
\$2,045	\$2,201	\$2,370	\$2,551	\$2,745	\$2,955	\$3,181	\$3,424	\$3,686	\$3,967	\$4,270	\$4,597
\$1,227	\$1,321	\$1,422	\$1,530	\$1,647	\$1,773	\$1,909	\$2,054	\$2,211	\$2,380	\$2,562	\$2,758
3.64%	3.64%	3.64%	3.64%	3.64%	3.64%	3.64%	3.64%	3.64%	3.64%	3.64%	3.64%
\$2,978	\$3,205	\$3,450	\$3,714	\$3,997	\$4,303	\$4,632	\$4,985	\$5,366	\$5,776	\$6,218	\$6,693
\$88,056	\$94,783	\$102,024	\$109,819	\$118,209	\$127,240	\$136,962	\$147,425	\$158,689	\$170,813	\$183,863	\$197,910
\$5,741	\$7,213	\$8,190	\$8,251	\$7,923	\$7,862	\$8,288	\$8,877	\$11,144	\$10,823	\$10,180	\$9,859
\$93,797	\$101,996	\$110,214	\$118,070	\$126,133	\$135,102	\$145,250	\$156,302	\$169,833	\$181,636	\$194,043	\$207,769
\$18.33	\$19.64	\$20.91	\$22.07	\$23.23	\$24.51	\$25.96	\$27.53	\$29.47	\$31.05	\$32.68	\$34.48
\$656	\$812	\$908	\$901	\$853	\$833	\$866	\$913	\$1,130	\$1,081	\$1,002	\$956
\$10,712	\$11,476	\$12,217	\$12,895	\$13,572	\$14,322	\$15,170	\$16,083	\$17,217	\$18,142	\$19,094	\$20,143
\$474	\$569	\$618	\$596	\$547	\$519	\$524	\$537	\$644	\$599	\$539	\$499
\$7,738	\$8,049	\$8,319	\$8,525	\$8,711	\$8,925	\$9,178	\$9,447	\$9,819	\$10,045	\$10,264	\$10,512
3.1%	4.0%	3.4%	2.5%	2.2%	2.5%	2.8%	2.9%	3.9%	2.3%	2.2%	2.4%
6.1%	7.1%	7.4%	7.0%	6.3%	5.8%	5.7%	5.7%	6.6%	6.0%	5.2%	4.7%
6.2%	7.1%	6.5%	5.5%	5.2%	5.5%	5.9%	6.0%	7.1%	5.4%	5.3%	5.5%

FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
-\$181,692	-\$288,950	-\$288,950	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$116,000	\$112,000	\$108,000	\$104,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$1,320,313	\$1,282,288	\$1,244,263	\$1,206,238	\$1,168,213	\$1,130,188	\$1,092,163	\$1,054,138	\$1,016,113	\$978,088	\$902,038	\$864,013
\$1,443,938	\$1,404,075	\$1,364,211	\$1,324,348	\$1,284,485	\$1,244,621	\$1,204,758	\$1,164,895	\$1,125,031	\$1,085,168	\$1,005,441	\$965,578
\$735,403	\$2,070,023	\$2,020,996	\$1,971,969	\$1,922,942	\$1,873,915	\$1,824,888	\$1,775,862	\$1,726,835	\$1,677,808	\$1,579,754	\$1,530,727
\$0	\$0	\$0	\$0	\$0	\$162,477	\$812,383	\$1,624,765	\$4,116,072	\$4,018,586	\$3,823,614	\$3,726,128
\$951,443	\$925,176	\$898,909	\$872,642	\$846,375	\$820,109	\$793,842	\$767,575	\$741,308	\$715,041	\$662,508	\$636,241
\$978,053	\$952,794	\$927,536	\$902,278	\$877,020	\$851,762	\$826,503	\$801,245	\$775,987	\$750,729	\$700,213	\$674,954
\$377,976	\$755,953	\$1,915,081	\$1,869,724	\$1,824,366	\$1,779,009	\$1,733,652	\$1,688,295	\$1,642,938	\$1,597,581	\$1,506,866	\$1,461,509
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$5,741,433	\$7,213,358	\$8,190,046	\$8,251,198	\$7,923,401	\$7,862,080	\$8,288,189	\$8,876,774	\$11,144,284	\$10,823,000	\$10,180,434	\$9,859,151
\$62,849,118	\$65,837,323	\$63,923,184	\$61,755,543	\$59,841,404	\$57,698,763	\$55,784,624	\$59,319,411	\$67,892,386	\$76,641,860	\$85,214,835	\$88,516,880

# "Ambitious" no Operating Override - Worksheet "W"

Property Tax Levy														
reporty run zery				FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012
		Proper	ty Tax Levy											
		Previous Ye	ar Tax Levy	\$34,828	\$38,958	\$42,172	\$45,393	\$47,209	\$49,098	\$51,061	\$53,104	\$55,228	\$57,437	\$59,735
		Prop 2 1	/2 Increase	\$871	\$974	\$1,054	\$1,135	\$1,180	\$1,227	\$1,277	\$1,328	\$1,381	\$1,436	\$1,493
		1	New Growth	\$1,010	\$761	\$633	\$681	\$708	\$736	\$766	\$797	\$828	\$862	\$896
	Operat	ing Override				3.64%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
			g Overrides	\$2,249	\$1,479	\$1,535	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Levy w/o Del		\$38,958	\$42,172	\$45,393	\$47,209	\$49,098	\$51,061	\$53,104	\$55,228	\$57,437	\$59,735	\$62,124
		Debt Exclusio		\$842	\$713	\$2,044	\$2,840	\$4,184	\$5,099	\$5,117	\$5,274	\$5,505	\$5,232	\$5,197
	Total P	roperty Tax I	Levy (000s)	\$39,800	\$42,885	\$47,437	\$50,049	\$53,282	\$56,160	\$58,221	\$60,502	\$62,943	\$64,967	\$67,321
		Toy / \$100	0 Valuation	\$9.84	\$9.73	¢10.60	¢11.00	¢11 FC	¢10.00	\$12.26	\$12.55	\$12.87	¢10.00	\$13.36
Modian To	x Bill Share of S			ъэ.о4 \$110	ъ9.73 \$95	\$10.60 \$267	\$11.02 \$365	\$11.56 \$530	\$12.00 \$637	\$12.26 \$630	\$639	\$657	\$13.08 \$616	\$602
iviedian raz	x biii Share of S		ian Tax Bill	\$5,208	\$5,684	⊅∠67 <b>\$6,194</b>	ъзоз <b>\$6,439</b>	φοσυ <b>\$6,753</b>	φοσ <i>7</i> <b>\$7,013</b>	\$7,163	\$ <b>7,333</b>	φου <i>γ</i> <b>\$7,516</b>	\$7,643	\$7,803
		i otai weu		<b>Φ</b> 5,206	<b>\$5,004</b>	<b>ФО, 194</b>	<del>\$0,439</del>	<del>Ф</del> 0,755	\$7,013	\$7,103	<b>Φ1,333</b>	\$7,510	₹ <i>1</i> ,043	<b>Φ7,003</b>
Present Value of D	eht Exclusion B	urden on Med	dian Tay Rill	\$110	\$95	\$252	\$334	\$471	\$549	\$527	\$520	\$519	\$472	\$448
1 TOSOTIL VALUE OF B	Present Value of Median Ta				\$5,684	\$5,839	\$5,892	\$6,000	\$6,049	\$5,999	\$5,963	\$5,934	\$5,858	\$5,806
	Percent Present ValueTax Incre				ψο,σο-	2.7%	0.9%	1.8%	0.8%	-0.8%	-0.6%	-0.5%	-1.3%	-0.9%
Percent D	Percent Present ValueTax Incre Percent Debt Exclusion Burden on Median Ta			2.1%	1.7%	4.3%	5.7%	7.9%	9.1%	8.8%	8.7%	8.7%	8.1%	7.7%
Overall Annual Tax In						9.0%	3.9%	4.9%	3.8%	2.1%	2.4%	2.5%	1.7%	2.1%
	_													
Debt Exclusion Costs														
	Project Cost		Finish Date	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012
High School, 1990s	\$5,020,000	Sep-94	Sep-94	\$461,200	\$429,164	\$411,724	\$388,316	\$290,815	\$276,204	\$250,349	\$228,799	\$134,362	\$96,672	-\$64,998
Mattison Field	\$840,000	May-98	May-98	\$181,028	\$160,428	\$145,365	\$150,650	\$145,463	\$140,213	\$134,838	\$104,400	\$0	\$0	\$0
School Designs	\$2,750,000	Feb-03	Feb-03	\$152,000	\$20,763	\$958,192	\$944,350	\$930,508	\$0	\$0	\$0	\$0	\$0	\$0
Harvey Wheeler	\$1,200,000	Jul-02	Jan-04	\$0	\$11,250	\$35,250	\$148,000	\$144,000	\$140,000	\$136,000	\$132,000	\$128,000	\$124,000	\$120,000
Alcott School	\$16,900,000	Oct-02	Oct-04	\$0	\$190,125	\$443,625	\$760,500	\$1,586,488	\$1,548,463	\$1,510,438	\$1,472,413	\$1,434,388	\$1,396,363	\$1,358,338
Thoreau School	\$17,717,030	Jul-04	Apr-06	\$0	\$0	\$0	\$199,317	\$597,950	\$1,683,118	\$1,643,255	\$1,603,391	\$1,563,528	\$1,523,665	\$1,483,801
Willard School	\$21,789,712							. ,						
N 4: -I -II - O - I I		Jul-11	Apr-13	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$245,134
Middle School	\$43,327,074	Jun-18	Mar-20	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$245,134 \$0
High School Phase I	\$43,327,074 \$18,565,750	Jun-18 Jun-04	Mar-20 Mar-06	\$0 \$0	\$0 \$0 \$0	\$0 \$0 \$49,772	\$0 \$0 \$248,479	\$0 \$0 \$489,231	\$0 \$0 \$1,262,666	\$0 \$0 \$1,207,275	\$0 \$1,172,108	\$0 \$0 \$1,109,871	\$0 \$0 \$1,033,035	\$245,134 \$0 \$976,932
High School Phase I High School Phase II	\$43,327,074	Jun-18	Mar-20	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$245,134 \$0
High School Phase I	\$43,327,074 \$18,565,750	Jun-18 Jun-04	Mar-20 Mar-06	\$0 \$0	\$0 \$0 \$0	\$0 \$0 \$49,772	\$0 \$0 \$248,479	\$0 \$0 \$489,231	\$0 \$0 \$1,262,666	\$0 \$0 \$1,207,275	\$0 \$1,172,108	\$0 \$0 \$1,109,871	\$0 \$0 \$1,033,035	\$245,134 \$0 \$976,932
High School Phase I High School Phase II West Concord	\$43,327,074 \$18,565,750 \$17,852,821	Jun-18 Jun-04 Jan-07	Mar-20 Mar-06 Oct-08	\$0 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$49,772 \$0	\$0 \$0 \$248,479 \$0	\$0 \$0 \$489,231 \$0	\$0 \$0 \$1,262,666 \$47,928	\$0 \$0 \$1,207,275 \$234,686	\$0 \$1,172,108 \$560,436	\$0 \$0 \$1,109,871 \$1,135,277	\$0 \$0 \$1,033,035 \$1,058,340	\$245,134 \$0 \$976,932 \$1,002,513
High School Phase I High School Phase II West Concord Fire/Police Station Waste Water Treatment Another Big	\$43,327,074 \$18,565,750 \$17,852,821 \$20,158,746	Jun-18 Jun-04 Jan-07 Jun-12	Mar-20 Mar-06 Oct-08 Mar-14	\$0 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$49,772 \$0	\$0 \$0 \$248,479 \$0	\$0 \$0 \$489,231 \$0	\$0 \$0 \$1,262,666 \$47,928	\$0 \$0 \$1,207,275 \$234,686	\$0 \$1,172,108 \$560,436	\$0 \$0 \$1,109,871 \$1,135,277	\$0 \$0 \$1,033,035 \$1,058,340	\$245,134 \$0 \$976,932 \$1,002,513
High School Phase I High School Phase II West Concord Fire/Police Station Waste Water Treatment Another Big Construction Project	\$43,327,074 \$18,565,750 \$17,852,821 \$20,158,746 \$0	Jun-18 Jun-04 Jan-07 Jun-12	Mar-20 Mar-06 Oct-08 Mar-14	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$49,772 \$0 \$0 \$0	\$0 \$0 \$248,479 \$0 \$0 \$0	\$0 \$0 \$489,231 \$0 \$0 \$0	\$0 \$0 \$1,262,666 \$47,928 \$0 \$0	\$0 \$0 \$1,207,275 \$234,686 \$0 \$0	\$0 \$1,172,108 \$560,436	\$0 \$0 \$1,109,871 \$1,135,277 \$0 \$0	\$0 \$0 \$1,033,035 \$1,058,340 \$0 \$0	\$245,134 \$0 \$976,932 \$1,002,513 \$75,595 \$0
High School Phase I High School Phase II West Concord Fire/Police Station Waste Water Treatment Another Big	\$43,327,074 \$18,565,750 \$17,852,821 \$20,158,746 \$0	Jun-18 Jun-04 Jan-07 Jun-12 Jan-04	Mar-20 Mar-06 Oct-08 Mar-14 Jul-05	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$49,772 \$0 \$0 \$0	\$0 \$0 \$248,479 \$0 \$0	\$0 \$0 \$489,231 \$0 \$0 \$0	\$0 \$0 \$1,262,666 \$47,928 \$0 \$0	\$0 \$0 \$1,207,275 \$234,686 \$0 \$0	\$0 \$1,172,108 \$560,436 \$0 \$0 \$0	\$0 \$0 \$1,109,871 \$1,135,277 \$0 \$0 \$0	\$0 \$0 \$1,033,035 \$1,058,340 \$0 \$0	\$245,134 \$0 \$976,932 \$1,002,513 \$75,595 \$0 \$0
High School Phase I High School Phase II West Concord Fire/Police Station Waste Water Treatment Another Big Construction Project	\$43,327,074 \$18,565,750 \$17,852,821 \$20,158,746 \$0 \$0	Jun-18 Jun-04 Jan-07 Jun-12 Jan-04 Jan-25	Mar-20 Mar-06 Oct-08 Mar-14 Jul-05 Jul-26 Jul-26	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$0 \$49,772 \$0 \$0 \$0	\$0 \$0 \$248,479 \$0 \$0 \$0	\$0 \$0 \$489,231 \$0 \$0 \$0	\$0 \$0 \$1,262,666 \$47,928 \$0 \$0	\$0 \$0 \$1,207,275 \$234,686 \$0 \$0	\$0 \$1,172,108 \$560,436 \$0 \$0	\$0 \$0 \$1,109,871 \$1,135,277 \$0 \$0	\$0 \$0 \$1,033,035 \$1,058,340 \$0 \$0	\$245,134 \$0 \$976,932 \$1,002,513 \$75,595 \$0
High School Phase I High School Phase II West Concord Fire/Police Station Waste Water Treatment Another Big Construction Project	\$43,327,074 \$18,565,750 \$17,852,821 \$20,158,746 \$0 \$0	Jun-18 Jun-04 Jan-07 Jun-12 Jan-04 Jan-25 Jan-25	Mar-20 Mar-06 Oct-08 Mar-14 Jul-05 Jul-26 Jul-26	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$49,772 \$0 \$0 \$0 \$0	\$0 \$0 \$248,479 \$0 \$0 \$0 \$0	\$0 \$0 \$489,231 \$0 \$0 \$0 \$0	\$0 \$0 \$1,262,666 \$47,928 \$0 \$0	\$0 \$0 \$1,207,275 \$234,686 \$0 \$0	\$0 \$1,172,108 \$560,436 \$0 \$0 \$0	\$0 \$0 \$1,109,871 \$1,135,277 \$0 \$0 \$0	\$0 \$0 \$1,033,035 \$1,058,340 \$0 \$0	\$245,134 \$0 \$976,932 \$1,002,513 \$75,595 \$0 \$0

Note: CPI data pulled from <a href="www.bls.gov">www.bls.gov</a> measures calendar year. Concord's Financial Year runs July 1 - June 30. The six-month offsets create mild distortions in the early years of projects, but these smooth out over time and are deemed insignificant for the purposes of this planning tool.

# "Ambitious" no Operating Override - Worksheet "W"

FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
\$62,124	\$64,609	\$67,193	\$69,881	\$72,676	\$75,583	\$78,607	\$81,751	\$85,021	\$88,422	\$91,959	\$95,637
\$1,553	\$1,615	\$1,680	\$1,747	\$1,817	\$1,890	\$1,965	\$2,044	\$2,126	\$2,211	\$2,299	\$2,391
\$932	\$969	\$1,008	\$1,048	\$1,090	\$1,134	\$1,179	\$1,226	\$1,275	\$1,326	\$1,379	\$1,435
0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$64,609	\$67,193	\$69,881	\$72,676	\$75,583	\$78,607	\$81,751	\$85,021	\$88,422	\$91,959	\$95,637	\$99,463
\$5,741	\$7,213	\$8,190	\$8,251	\$7,923	\$7,862	\$8,288	\$8,877	\$11,144	\$10,823	\$10,180	\$9,859
\$70,350	\$74,407	\$78,071	\$80,928	\$83,507	\$86,469	\$90,039	\$93,898	\$99,566	\$102,782	\$105,818	\$109,322
\$13.75	\$14.33	\$14.81	\$15.13	\$15.38	\$15.69	\$16.10	\$16.54	\$17.28	\$17.57	\$17.82	\$18.14
\$656	\$812	\$908	\$901	\$853	\$833	\$866	\$913	\$1,130	\$1,081	\$1,002	\$956
\$8,034	\$8,372	\$8,654	\$8,838	\$8,985	\$9,166	\$9,404	\$9,662	\$10,094	\$10,266	\$10,413	\$10,599
\$474	\$569	\$618	\$596	\$547	\$519	\$524	\$537	\$644	\$599	\$539	\$499
\$5,804	\$5,872	\$5,893	\$5,843	\$5,767	\$5,712	\$5,689	\$5,675	\$5,756	\$5,684	\$5,597	\$5,531
0.0%	1.2%	0.4%	-0.8%	-1.3%	-1.0%	-0.4%	-0.2%	1.4%	-1.3%	-1.5%	-1.2%
8.2%	9.7%	10.5%	10.2%	9.5%	9.1%	9.2%	9.5%	11.2%	10.5%	9.6%	9.0%
3.0%	4.2%	3.4%	2.1%	1.7%	2.0%	2.6%	2.7%	4.5%	1.7%	1.4%	1.8%

FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
-\$181,692	-\$288,950	-\$288,950	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$116,000	\$112,000	\$108,000	\$104,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$1,320,313	\$1,282,288	\$1,244,263	\$1,206,238	\$1,168,213	\$1,130,188	\$1,092,163	\$1,054,138	\$1,016,113	\$978,088	\$902,038	\$864,013
\$1,443,938	\$1,404,075	\$1,364,211	\$1,324,348	\$1,284,485	\$1,244,621	\$1,204,758	\$1,164,895	\$1,125,031	\$1,085,168	\$1,005,441	\$965,578
\$735,403	\$2,070,023	\$2,020,996	\$1,971,969	\$1,922,942	\$1,873,915	\$1,824,888	\$1,775,862	\$1,726,835	\$1,677,808	\$1,579,754	\$1,530,727
\$0	\$0	\$0	\$0	\$0	\$162,477	\$812,383	\$1,624,765	\$4,116,072	\$4,018,586	\$3,823,614	\$3,726,128
\$951,443	\$925,176	\$898,909	\$872,642	\$846,375	\$820,109	\$793,842	\$767,575	\$741,308	\$715,041	\$662,508	\$636,241
\$978,053	\$952,794	\$927,536	\$902,278	\$877,020	\$851,762	\$826,503	\$801,245	\$775,987	\$750,729	\$700,213	\$674,954
\$377,976	\$755,953	\$1,915,081	\$1,869,724	\$1,824,366	\$1,779,009	\$1,733,652	\$1,688,295	\$1,642,938	\$1,597,581	\$1,506,866	\$1,461,509
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$5,741,433	\$7,213,358	\$8,190,046	\$8,251,198	\$7,923,401	\$7,862,080	\$8,288,189	\$8,876,774	\$11,144,284	\$10,823,000	\$10,180,434	\$9,859,151
\$62,849,118	\$65,837,323	\$63,923,184	\$61,755,543	\$59,841,404	\$57,698,763	\$55,784,624	\$59,319,411	\$67,892,386	\$76,641,860	\$85,214,835	\$88,516,880

# 3. Analysis of Tax Rate Impact of Facilities Plans

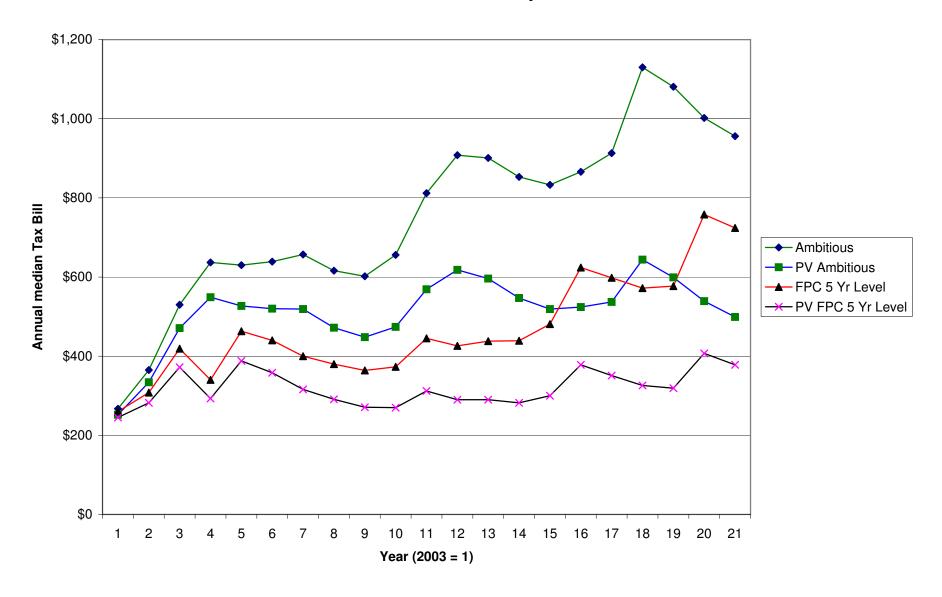
The three charts below, "X", "Y" and "Z", present a graphic representation of the impact on tax rates of the Five-Year Level facilities plan and the Ambitious Plan, both with and without override votes.

Chart X shows the actual and present debt exclusions values for the Ambitious and the Committee's Five—Year Level plans. Note that the present value of the Committee's Five—Year Level plan is consistently at or below the \$400 level except for \$407 in 2023. The present value of the Ambitious plan reaches a high of \$644 in 2021 and hovers around \$535 most years.

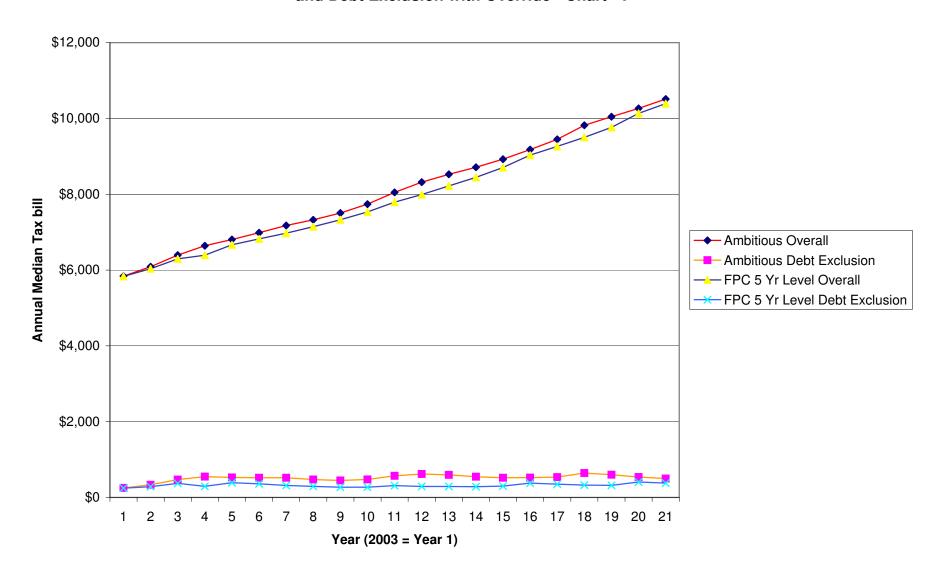
Charts Y and Z show the impact of the operating override on tax rates. Chart Y shows the Present Value tax impact of both the Ambitious and Five-Year Level plans with an average 3.64% operating override. The debt exclusion amounts are included in the overall taxation rates. The debt exclusion amounts are relatively insignificant compared with the overall tax rate. Compared in constant 2003 dollars, the annual median tax bill increases by 85% over 20 years.

Chart Z shows the Ambitious and Five—Year Level plans without operating overrides. Since Proposition 2–1/2 limits tax increases to below the interest rate assumption in the worksheet, the present value of the annual median tax bill actually decreases over time.

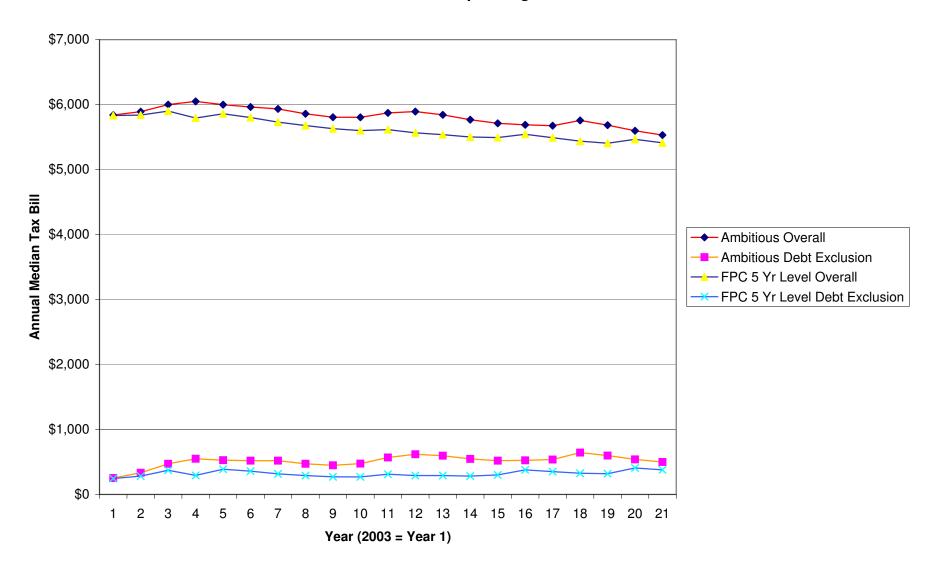
# Actual and Present Values of Ambitious and FPC 5 yr Level Debt Exclusion - Chart "X"



# Present Values of "Ambitious" and "FPC 5 yr Level" Overall Taxation and Debt Exclusion with Override - Chart "Y"



# Present Values of "Ambitious" and "FPC 5 yr Level" Overall Taxation and Debt Exclusion with no Operating Override - Chart "Z"



# VI. Major Findings and Recommendations

# A. Facilities Projects and Their Timing

The Facilities Planning Committee, recommends what we have titled the "Five-Year Level" facilities plan described in Section III. B. 1. of our report. The Five-Year Level Plan includes the following facilities projects with their starting dates:

Year Project
2005 Thoreau School
2011 Phase I of C.C.H.S.

2016 Willard School

2021 Either: New Fire Station, or Middle School, or C.C.H.S. Phase II

# **B.** Improvements in the Facilities Planning Process

Incidental to its data collection effort the Committee also learned something of the planning and decision processes that were involved in past facilities projects of the Town. It is clear that at times decisions have been made within very constrained limits that had long-term effects on the functionality, durability, and costs of operation, maintenance, and repair of the Town's facilities. Such constraints included limited time for facilities planners to consider alternatives, a perception that initial construction cost was the most important, if not the only cost consideration, and lack of authority of planners to consider options beyond the particular building and site under consideration. Excessive constraints on the planning process may be efficient of the planners' time but are unlikely to produce the best facilities plans and designs.

Of particular concern to the Committee was the Ripley School. It is now largely being used for a purpose for which it was not designed and is not appropriate – as office space for school administrative personnel. Major expenditures are made on an ad hoc basis from time to time for essential repairs - such as most recently a new roof.

The Committee offers the following observations and recommendations in this area.

# 1. Major Facilities Planning Recommendations

• The design of new construction projects should reflect a vision of the future, with creative, efficient and fully functional facilities – buildings with a true sense of place and the preservation of existing facilities should be given high priority in order to maintain the quality of the Town's character.

- Proposed facility expansion and new construction projects should be implemented only after a thorough examination of needs, program, timing, costs and the potential for the reuse of existing facilities.
- Land is a precious asset in Concord and its availability is rapidly declining. Longrange planning for the Town should identify priority parcels of land suitable for future construction projects, as well as for swing space to accommodate users displaced during construction.
- We recommend that the data the Committee have prepared be updated at regular intervals.

The building survey and the financial model used by the Committee should be helpful to the Board of Selectmen and Town of Concord for this purpose.

- The Town should, on a regular schedule though not necessarily yearly appoint a Facilities Planning Committee with responsibility for reviewing the Town's facilities data and long range facilities plans. This Committee should include representatives from the engineering and architectural professions, as well as individuals with expertise in finance, planning and programming, and construction.
- From time to time the Town should engage consultants expert in Town and facilities planning to review the adequacy of the Town's land and facilities planning process and to recommend specific, practical improvements.
- The Town and the Schools should develop a plan or a range of possible plans for the future use of the Ripley School site and building. Without the guidance that a longrange plan could provide the Town is very unlikely to achieve the highest and best use of either the building or the land upon which it stands.

# 2. Other Facilities Planning Recommendations

- The Town should require that designers of Town facilities explicitly consider L.E.E.D. ("Leadership in Energy & Environmental Design") standards when designing Town buildings.
- Facility expansion and new construction projects should attempt to optimize lifecycle and operating costs through the careful selection of building materials and building systems.
- The Town should set a standard for calculating the "payback" appropriate for tradeoffs between initial costs and long-term savings. The standard should be used to analyze energy cost tradeoffs, materials costs vs. maintenance cost savings, and the like. The Committee suggests a "ten—year simple payback" as appropriate. That is, a saving of \$100 per year would justify the expenditure of an additional \$1,000 in initial construction or installation cost.

- New facilities should be flexible and readily adaptable to changing requirements. Such flexibility should be reflected in building layouts by allowing for future changes (either additions or subtractions), in mechanical system and lighting designs, and in provisions for storage space.
- The Schools should be encouraged to consider grade configuration, redistricting, morning/afternoon kindergarten, year-round school and other programmatic decisions that affect facilities needs.
- Economies should be obtained from increased daily and yearly use of facilities, proper orientation of buildings to avoid excessive heat gain and to capture daylight for lighting, and the optimum configuration of building envelopes (exterior walls and roofs).
- Property insurance values should be reexamined on a regular basis to assure they bear a reasonable relationship to replacement costs.

# C. Facilities Maintenance

The Committee learned that the Town's funding of maintenance is below the norms for public buildings as published by the Building Research Board. The Board's data indicate that a range of 2% to 4% of replacement cost is typical for well-maintained public buildings. Various incomplete data indicate that the Town's maintenance budgets for its buildings are in the 2% to 3% which we believe is inadequate for older buildings that were not designed with low maintenance cost in mind.

The Committee noted that the maintenance of Town and School buildings is not comprehensively planned and managed. Variations in maintenance quality were observed between buildings.

The Committee believes that improvements both in funding and in management of maintenance would be desirable.

# 1. Recommendations for Improved Maintenance of Facilities

• The Committee found it difficult to obtain accurate information about the costs of maintenance of Town facilities other than its schools. Without accurate information it is not possible to accurately track the levels of funding of maintenance. Thus the Town cannot know whether such funding is adequate and consistent. We recommend action be taken to collect and analyze such data and that it be used for planning future maintenance budgeting and planning.

- Consideration should be given to utilizing a computerized maintenance software program, as is being done by Emerson Hospital and many other multi-building owners, both public and private. Properly utilized, this would assure that all equipment maintenance would be accomplished in accordance with manufacturer's recommendations.
- Routine maintenance and capital maintenance of Town facilities should be funded at a consistent rate capable of attaining a "State of Good Repair," or approximately 2.75% of replacement cost for its facilities maintenance as a matter of policy approximately \$292,000 more than recently budgeted.
- The Building Inventory Sheet that accompanies this report identifies those major future maintenance items that were brought to the attention of the Committee. The Committee recommends that funds be set aside each year for the immediate future to work off such accumulated deferred maintenance. An additional 0.25% or \$200,000 may be required to accomplish this.
- The Committee supports the recommendation of the recent Joint School/Town Maintenance Study Committee report that maintenance of School facilities and other Town buildings be integrated. [See that report for details.]
- The possibility of outsourcing some maintenance activities should be explored, and accomplished if found to be to the Town's financial advantage.
- Interchange of necessary, but little-used, maintenance equipment between the Town, Middlesex School, and Emerson Hospital might avoid some otherwise anticipated equipment expenditures.

# **APPENDIX**

Document: Charge to the Committee from the Selectmen

Document: "Building Inventory Information Gathering Process"

Table: Funding Approvals by Recent Town Meetings

# Charge Facilities Planning Committee

Purpose: To develop and recommend to the Board of Selectmen, and also for the use of the School Committee, a needs assessment, sequencing, and financing plan for the maintenance, upkeep, repair, reconstruction, additions, and new construction for all Town buildings, particularly School Buildings, and those projects not part of the Capital Plan, over the next twenty (20) years. This plan will take into account and coordinate with any and all expected capital expenditures over the same time period. The goal is to develop a timing and sequencing plan, including financing, which will adequately provide for the upkeep of Town buildings and their improvement as required, either by obsolescence or needs, most immediately school buildings, in such a manner as to minimize the impact on the Town's resources.

Membership: To consist of 2 Selectmen, 2 School Committee members, and up to 7 members at large at the discretion of the Board of Selectmen, drawn from the general community, having experience, knowledge, or expertise in the areas mentioned above, along with a Finance Committee observer.

Term: To be appointed immediately by the Board of Selectmen for a term of 18 months, subject to reappointment if the tasks are not completed.

Funding: It is the intention of the Board of Selectmen to request a sum of money, at the first available Town Meeting. Said monies shall be used for planning assistance which could include, but is not limited to, professional assistance, a project manager, consultants, or others as recommended by the Committee to meet the needs of the Committee.

Staff Support: Requests for staff assistance will be made through the Town Manager and Superintendent of Schools who will endeavor to comply with reasonable requests.

Framework and Assumptions: The Facilities Planning Committee is charged with developing an ongoing Facilities Plan for the Town of Concord, consistent with, but not limited to, the following general assumptions:

- 1. It is necessary to have a long-term, flexible, and reviewable plan for sequencing and financing of the repair, maintenance and improvements, including replacement when required, for all of the Town buildings, but not including projects which are part of the annual Capital Plan.
- 2. It is appropriate to plan for such work so that when required it can be done in such a way as to not overtax the Town's resources.
- 3. As regards School buildings, major School Reconstruction projects are best taken on one at a time (see #2 above).

- 4. There is a need to do an inventory of all Town buildings as to their current status and need for work. In developing the inventory, the Committee shall review information, documentation, and research gathered and developed by the School Building Committee, and the Town Manager and Superintendent of Schools for capital planning purposes.
- 5. With regard to School Buildings, there is a need to understand the most recent rules and regulations of the School Building Assistance Bureau as they may impact the Town of Concord.
- 6. Among the School buildings, the Alcott and Thoreau Schools are perceived as having the most immediate needs both as a result of age and condition.
- 7. It is possible the School Committee and Board of Selectmen may present an article for voter consideration at a Town Meeting in 2002 to address needs at the Alcott School.
- 8. The Committee should, after performing an inventory, consider any recommendation for immediate action that it may wish to make as regards the Alcott School.
- 9. Projects should be considered and evaluated by the Committee to develop a Plan consistent with #1&2 above.
- 10. The Concord-Carlisle Regional School Committee is in the process of evaluation of space needs at the High School that will need to be incorporated into the Plan.
- 11. The Concord School Committee has voted to postpone consideration of renovation and reconstruction to be done at the Concord Middle School, but the Committee will need to include consideration of maintenance and capital needs of the Middle School in any Plan.
- 12. There exist design plans for the Alcott School, the Thoreau School, and the Middle School, as well as bid documents for the Alcott School and the Concord Middle School, Sanborn building. The Facilities Planning Committee should review design documents and bid documents created for the School Building Project in considering timing, sequencing and financing of School construction.

Facilities to be Considered: Any and all buildings and facilities owned by the Town of Concord, but excluding facilities which are funded by Enterprise Funds or are part of the Capital Plan.

Role: It is the role of the Facilities Planning Committee to develop a Facilities Plan as set forth above and by so doing make recommendation to the Board of Selectmen as to how to plan for the upkeep, maintenance, repair, renovation, reconstruction, and new construction of Town owned facilities. Such Plan will be shared with, and consultation sought from, the School Committee and the Regional School Committee, for incorporation into the Facilities Plan. The authorities and responsibilities of the Board of Selectmen and School Committee are not to be abridged in any fashion by the formation of this Committee and any recommendations it may make. Any actual construction will be the responsibility of a duly appointed Building Committee, which shall be responsible for design, planning and construction.

Charge: The Facilities Planning Committee shall develop a Facilities Plan for all Town owned buildings, which should include:

- 1. An inventory of all Town buildings including Schools.
- 2. Review of all current information and research gathered by the School Building Committee for evaluation and possible incorporation into the Plan.
- 3. Update of new School Building Assistance Bureau rules and regulations as they may apply to the Town of Concord for incorporation into any Plan.
- 4. Comment on status and condition of each property.
- 5. Recommendation as to action to be taken as to each property, including use of previously prepared designs where possible.
- 6. Recommendation of a sequencing plan.
- 7. Recommendation as to housing of students during School construction.
- 8. Recommendation of a financing plan.
- 9. Recommendation of a sequencing and financing plan for maintenance of all Town owned facilities.
- 10. The Committee is urged to consider, with all dispatch, the condition of the Alcott School and make recommendation as to that building at its earliest convenience, having evaluated the present sequencing and financing plans, and space for housing students during construction, and having due regard for integration into a comprehensive facilities plan and the assumptions set forth above.

Other Considerations: The Facilities Planning Committee is responsible for conducting its activities in a manner which is in compliance with all relevant State and local laws and regulations, including but not limited to the Open Meeting Law, Public Record Law, and Conflict of Interest Law. Copies of all minutes will be made available promptly to the Board of Selectmen, and submitted at year's end to the Town Clerk

# FACILITIES PLANNING COMMITTEE PROJECT PLANNING SUBCOMMITTEE

# **BUILDING INVENTORY INFORMATION GATHERING PROCESS**

The process used to gather the information included in the Building Inventory was discussed at various Facility Planning Committee meetings and, once decided, was followed throughout the preparation of the Building Inventory document.

In order to obtain consistent information, an interview form was prepared before the interview process began. Over the course of several meetings sample interview forms prepared by various committee members were reviewed and discussed. The final form was the one that committee members felt would be most helpful in preparing an inventory that would satisfy the assumptions listed in the committee's charge. It would also allow preparation of a Building Inventory document that would assist in projecting future capital expenditures for Town and School buildings, as well as building maintenance requirements.

Following approval of the final interview form, two members of the committee proceeded to interview each of the building managers. The managers were sent a letter of introduction and an interview form, along with a request that they provide as much of the information as possible prior to the interview. They were then contacted and an interview arranged. At the time of the interview, the committee members reviewed the form with the managers and toured the visited facility so as to personally observe building and equipment conditions.

Following each interview a summary of the meeting and of the conditions found was prepared. Information from the written summaries and the completed interview forms was then transcribed onto the Building Inventory form.

The completed Building Inventory form provides a single source document that summarizes each building's size and value, the conditions found, and some of the capital and/or maintenance actions that may be required during the next twenty years.

# **Funding Approvals by Town Meeting 1992-2002**

ar	Article	<u>Description</u>	\$ Amount	
1992	31	CCHS renovations	\$6,032,500	
	34	Keyes Road Bldg Improvements	\$945,000	
			\$6,977,500	:
1993	23	Peabody School ADA renovations	\$245,815.36	
1994	17	Alcott, Thoreau, Willard remodeling (additions)	\$2,200,000	* 1
1995	29	Alcott window wall	\$350,000	
	30	CCHS renovations cont'd	\$3,100,000	
	18	Keyes Rd Improvement (transfer from CMLP)	\$1,000,000	
	19	Town House Renovations	\$100,000	
			\$4,550,000	
1996	30	Roof Repair at a CPS Bldg	\$515,000	
	31	ADA renovations at a CPS Bldg	\$100,000	
	37	Police and Fire Station Repairs	\$100,000	
	32	Technology wiring for schools	\$1,000,000	,
			\$1,715,000	
1997	30	Thoreau School Parking Study	\$15,000	
	31	Thoreau Roof	\$60,000	
	39	Police and Fire Remodeling	\$225,000	
	40	Town House HVAC	\$150,000	
	41	Rideout Playground Improvments	\$135,000	
	34	Harvey Wheeler (transfer from H. Wright Trust)	\$200,000	
			\$785,000	
1998	30	Emerson Playground Renovations	\$200,000	
	32	Thoreau Parking Lot	\$150,000	
	33	Alcott and Thoreau roofs	\$715,000	
	34	The CPS Bldg Study (Master Plan)	\$50,000	
			\$1,115,000	
1999	34	Town House Renovations	\$150,000	
	35	Police and Fire Renovations	\$180,000	
	40	School Bus Maint. Facility	\$350,000	
	41	CPS Modulars	\$215,326	
	42	Peabody Roof Repairs	\$60,000	
I	50	105 Everett Street Purchase	\$40,000	
			\$995,326	

# **Funding Approvals by Town Meeting 1992-2002**

2000	29	CPS Design Funds	\$5,000,000	
2001	44	Harvey Wheeler Renovations	\$1,150,000	
	45	105 Everett St Renovations	\$185,000	
	53	CPS Bldg Project		(\$68,437,000)
		Willard amendment		(\$73,037,000)
	56	Peabody Roof Phase II	\$130,000	
			\$1,465,000	
2002	38	Harvey Wheeler Renovations	\$400,000	
	40		\$200,000	
		Willard Roof Repair	\$50,000	
	53	Peabody Roof Phase III	\$350,000	
	54	Ripley Roof Replacement Phase I	\$209,000	
	55		\$180,000	
	56		\$120,000	
		(actual money spent was approx. \$60,000.)		
	57	Sanborn & Peabody Improvments	\$480,000	
	51		\$160,000	
		(actual money spent was approx. \$90,000.)	1 av	
	60		\$20,000,000	
		Staging School Study Committee	\$40,000	
		Facilities Planning Committee	\$50,000	
			\$22,239,000	
		TEN YEAR TOTAL:	\$ 64,890,467	