

July 29, 2015

Ms. Tabitha Palmer Conway Management Group, LLC 914 N. Walnut Street Wilmington, Delaware 19801

Reference: Beacon Hill Townhome Condominium Association

Reserve Study Update

Kipcon Project No. 11645-01

Dear Ms. Palmer:

Attached please find Kipcon's Reserve Study Update, which has been prepared for the Beacon Hill Townhome Condominium Association.

This Reserve Study Update has been prepared in conformance with the *National Reserve Study Standards* of the Community Associations Institute (CAI), which is a national educational organization for the community association industry. It is recommended that prior to implementing this Reserve Study, it be reviewed by the Association's accountant, paying particular attention to the beginning balance and the funding plan.

As always, if you have any questions or comments, please do not hesitate to contact me. Thank you again for selecting Kipcon to provide these services.

Very truly yours,

KIPCON INCORPORATED

Brandon Femia, R.S.

Manager, Reserve Studies

BF/mw

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PREPARED FOR

Beacon Hill Townhome Condominium Association Wilmington, Delaware

PREPARED BY

Kipcon Incorporated Project No. 11645-01 July 29, 2015

Brandon Femia, R.S.

Reserve Specialist Number 249



Beacon Hill Townhome Condominium Association Project No. 11645-01 July 29, 2015

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Beacon Hill Townhome Condominium Association Project No. 11645-01 July 29, 2015

Executive Summary

The following Reserve Study Update was prepared by Kipcon Incorporated for the Beacon Hill Townhome Condominium Association located in Wilmington, Delaware. The 36 year old community comprises 72 units in 9 buildings. This report was based upon visual observations made on Friday, May 29, 2015, as well as information provided by Ms. Tabitha Palmer, the Property Manager.

The purpose of a Reserve Study Update is to provide recommendations to the Association in regard to the amount of funding to be set aside to perform future replacements of the common elements as becomes necessary. The basis for this study is an analysis of the condition and replacement costs of the components which will require replacement within the next 30 years. The components and quantities used in this report were taken from the information from the prior Reserve Study prepared by Reserve Advisors in 2011. The quantities have not been updated by Kipcon Incorporated within the scope of this study unless noted.

As required by the *National Reserve Study Standards* of the Community Associations Institute, a Reserve Study Update comprises a Physical Analysis and a Financial Analysis. The Physical Analysis involves estimating the useful lives and replacement costs of common element components included within the Reserve Study. The estimated remaining lives of components are based on field observations by Kipcon Incorporated. Estimated replacement costs are based on construction cost estimating standards, information supplied by contractors, and industry experience. The Financial Analysis is prepared based upon the projected future annual reserve needs of the community association over the next 30 years.

This Reserve Study Update indicates the Association's reserves are underfunded. The Association's current annual contribution is \$46,900, whereas this study recommends an annual contribution of \$50,353 in order to fully fund the reserves. It is recommended that the Association increase its annual contribution amount to the recommended amount of \$50,353. However, it is also recommended that the Association review this study with its financial advisor before implementing a funding plan.

Based upon field observations by Kipcon Incorporated and the available reviewed data, the existing conditions at the Beacon Hill Townhome Condominium Association are accurately represented within this report. It should be recognized that costs and useful lives fluctuate as a result of variables which include overall economic conditions, conditions within the construction industry, unanticipated severe weather, and the amount of ongoing maintenance performed. To ensure that proper funding levels are maintained, this report should be updated in two (2) years to provide the Association with a more current assessment of the status of its reserve fund.

This report is prepared for budgetary purposes only. In most cases, bids solicited for replacement of any of the components will not match the costs shown in the Component Inventory. The costs contained within this report are obtained from the sources previously listed and are based on the replacement of the existing components with components of similar quality. Specific notes in this regard may be contained within this report.



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Key Figures

Level of Service Provided: Condition Assessment (based upon on-site visual observations)

Life and Valuation Estimates

Fund Status Funding Plan

Physical Description

Number of Units: 72 Units

Number of Buildings 9 Buildings

Age of Community: Approximately 36 Years Old

Financial Description

Beginning Reserve Balance: \$69,563

Source of Beginning Reserve Balance

and Annual Contribution: Ms. Tabitha Palmer, Conway Management Group, LLC

Previous Preparer: Reserve Advisors

Prev. Sched. Date: June 23, 2011

Funding Goal: Full Funding

Reserve Fund Status

Current Percent Funded (Beginning

Reserve Balance/Full Funding Balance): 16.02%

Current Annual Contribution: \$46,900

Previously Recommended Annual Contribution: \$46,900 (2015)

Recommended Annual Contribution: \$50,353

Averaging Interval: 30 Years



Physical Analysis

The following data represents the Physical Analysis portion of the Reserve Study. This analysis is based on the Component Inventory which incorporates a Condition Assessment of each specific component. The Condition Assessment is presented as the Estimated Remaining Life of each Component with the accompanying Notes. Also included is a valuation of the replacement cost for each Component. These costs are derived as outlined within this study.

Construction costs and useful life estimates in this report represent the Engineer's best judgment as a professional familiar with the construction industry. It is recognized, however, that neither the Engineer nor the Association has control over the cost of labor, energy, materials, or equipment; over the contractors' methods of determining bid prices; or over competitive bidding, marketing, or negotiating conditions.

Further, the Engineer cannot accurately determine the ongoing rate of deterioration, or the amount of preventive maintenance employed on an ongoing basis for determination of estimated useful lives. In all cases, unless stated otherwise, the useful life estimates are based upon visual inspections with no destructive testing employed. Accordingly, the Engineer cannot and does not warrant or represent those bids or negotiated prices and useful lives will not vary from that presented within the evaluation prepared or agreed to by the Engineer.

Beacon Hill Townhome Condominium Association Component Schedule Summary of Replacement Reserve Needs

Effective Date: January 1, 2016

CATEGORY	RESERVE REQUIREMENT PRESENT DOLLARS	BEGINNING BALANCE	BALANCE REQUIRING FUNDING	ANNUAL RESERVE FUNDING REQUIRED	FULL FUNDING BALANCE	PERCENT FUNDED
Sitework Totals	\$231,188	\$22,720	\$208,468	\$37,618	\$141,862	_
Waterproofing Totals	\$249,350	\$7,589	\$241,761	\$12,203	\$47,384	The Percent Funded _ and Funding Goal
Exterior Totals	\$483,350	\$38,443	\$444,907	\$29,769	\$240,036	are based on fully – funding each
Electrical Totals	\$10,132	\$811	\$9,321	\$932	\$5,066	component within the schedule.
						Please review the report for various funding strategies.
GRAND TOTALS	\$974,020	\$69,563	\$904,457	\$80,523	\$434,349	16.02%



Sitework

Sitework									
COMPONENT	QUANTITY	UNIT COST	RESERVE REQUIREMENT PRESENT DOLLARS	BEGINNING BALANCE	ESTIMATED USEFUL LIFE	ESTIMATED REMAINING USEFUL LIFE	ANNUAL RESERVE FUNDING REQUIRED	FULL FUNDING BALANCE	G NOTES
Asphalt Pavement, Sealcoat	6,780 SY	\$2.05	\$13,908	\$0	5	5	\$2,782	\$0	1
Asphalt Pavement, Overlay	6,780 SY	\$14.00	\$94,920	\$12,922	20	3	\$27,333	\$80,682	2
Concrete Curbs	3,460 LF	\$23.84	\$82,481	\$6,605	30	15	\$5,058	\$41,240	3
Concrete Sidewalks	4,000 SF	\$9.97	\$39,880	\$3,193	30	15	\$2,446	\$19,940	4
Wood Privacy Fencing	2,160 LF	\$0.00	\$0	\$0	20	10	\$0	\$0	5

TOTALS \$231,188 \$22,720 \$37,618 \$141,862

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Notes

- 1. Pavement sealcoating is recommended to be performed two (2) years after pavement installation and every five (5) years thereafter.
- 2. Asphalt pavement is installed within roadways and parking areas within the community. The unit cost shown represents milling and a two inch (2") overlay (after compaction). It also includes six percent (6%) for engineering fees. The roadways and parking areas in the community were observed to be in poor to fair condition overall.
- 3. Concrete curbing is installed in various areas of the community. The unit cost shown represents the removal and replacement of the curbing. The estimated remaining useful life shown represents replacing the curbing on an as-needed basis.
- 4. Concrete walkways and sidewalks are installed throughout the community. The unit cost shown represents the complete removal and replacement of the concrete sidewalks and is based on local contractor pricing. The estimated remaining useful life represents replacing the sidewalks on an as-needed basis.
- 5. The wood privacy fencing has been removed from the Reserve Study at the request of the Association.



Waterproofing

Waterproofing									
COMPONENT	QUANTITY	UNIT COST	RESERVE REQUIREMENT PRESENT DOLLARS	BEGINNING BALANCE	ESTIMATED USEFUL LIFE	ESTIMATED REMAINING USEFUL LIFE	ANNUAL RESERVE FUNDING REQUIRED	FULL FUNDIN BALANCE	G NOTES
Gutters and Downspouts	4,700 LF	\$4.50	\$21,150	\$1,761	25	12	\$1,616	\$10,998	6
Roof Replacement- Building 1	72 S0	Q \$350.00	\$25,200	\$646	25	21	\$1,169	\$4,032	7
Roof Replacement- Building 2	91 S0	Q \$350.00	\$31,850	\$612	25	22	\$1,420	\$3,822	7
Roof Replacement- Building 3	109 SC	Q \$350.00	\$38,150	\$978	25	21	\$1,770	\$6,104	7
Roof Replacement- Building 4	63 S0	Q \$350.00	\$22,050	\$565	25	21	\$1,023	\$3,528	7
Roof Replacement- Building 5	54 S0	Q \$350.00	\$18,900	\$484	25	21	\$877	\$3,024	7
Roof Replacement- Building 6	45 S0	Q \$350.00	\$15,750	\$404	25	21	\$731	\$2,520	7
Roof Replacement- Building 7	91 S0	Q \$350.00	\$31,850	\$816	25	21	\$1,478	\$5,096	7
Roof Replacement- Building 8	45 SC	Q \$350.00	\$15,750	\$404	25	21	\$731	\$2,520	7
Roof Replacement- Building 9	82 S0	Q \$350.00	\$28,700	\$919	25	20	\$1,389	\$5,740	7

TOTALS \$249,350 \$7,589 \$12,203 \$47,384

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Notes

- 6. Aluminum gutters and downspouts are installed at the roofs of the buildings throughout the community. Typically, it is recommended that the gutters and downspouts be replaced at the time of roof replacement.
- 7. Dimensional fiberglass shingles are installed at the roof of the nine (9) buildings throughout the community. The unit cost shown is based on the removal and replacement of the existing shingles. The cost to remove and replace any roof sheathing or flashing is not included in the unit cost. A six percent (6%) markup has been included in the unit cost for related engineering fees. The estimated remaining useful life is based on the average age of the shingles of each building. Shingle replacement dates were provided by the Association. For purposes of this study, the Building numbers represent the following units:
 - Building One, located on West Court, contains Units 1, 3, 5, 7, 9, 11, 13, and 15.
 - Building Two, located on West Court, contains Units 2, 4, 6, 8, 10, 12, 14, 16, 18, and 20.
 - Building Three, located on Center Court, contains Units 101, 103, 105, 107, 109, 111, 113, 115, 117, 119, 121, and 123.
 - Building Four, located on Center Court, contains Units 100, 102, 104, 106, 108, and 110.
 - Building Five, located on Center Court, contains Units 112, 114, 116, 118, 120, 122, and 124.
 - Building Six, located on East Court, contains Units 201, 203, 205, 207, 209, 211, 213, 215, 217, and 219.
 - Building Seven, located on East Court, contains Units 228, 230, 232, 234, and 236.
 - Building Eight, located on East Court, contains Units 200, 202, 204, 206, 208, 210, 212, 214, and 216.
 - Building Nine, located on East Court, contains Units 218, 220, 222, 224, and 226.



\$29,769

\$240,036

Exterior

TOTALS

Exterior									
			RESERVE				ANNUAL		
			REQUIREMENT		ESTIMATED	ESTIMATED	RESERVE		
			PRESENT	BEGINNING	USEFUL	REMAINING	FUNDING	FULL FUNDING	3
COMPONENT	QUANTITY	UNIT COST	DOLLARS	BALANCE	LIFE	USEFUL LIFE	REQUIRED	BALANCE	NOTES
Shutters	220 PR	\$149.00	\$32,780	\$2,625	20	10	\$3,016	\$16,390	8
Masonry Wall Repointing (50%)	18,600 SF	\$11.50	\$213,900	\$17,814	25	12	\$16,341	\$111,228	9
Vinyl Siding	29,400 SF	\$8.05	\$236,670	\$18,004	40	21	\$10,413	\$112,418	10

\$483,350

\$38,443

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Notes

- 8. Shutters are installed on the exteriors of the building. The estimated remaining useful life represents replacing the shutters on an as-needed basis.
- 9. The unit cost represents the repointing of the exterior masonry walls. The quantity shown represents 50% of the total quantity, or the amount that will likely require repointing in the timeframe shown. The estimated remaining useful life represents repointing the exterior walls on an as-needed basis.
- 10. Vinyl siding is installed at the exterior of the buildings throughout the community. The unit cost shown represents the removal and replacement of the vinyl siding and trim. The siding was observed to be in good condition overall.



\$932

\$5,066

Electrical

TOTALS

Electrical			RESERVE				ANNUAL		
			REQUIREMENT		ESTIMATED	ESTIMATED	RESERVE		
			PRESENT	BEGINNING	USEFUL	REMAINING	FUNDING	FULL FUNDIN	G
COMPONENT	QUANTITY	UNIT COST	DOLLARS	BALANCE	LIFE	USEFUL LIFE	REQUIRED	BALANCE	NOTE
ight Fixtures- Floodlights	30 EA	\$337.74	\$10,132	\$811	20	10	\$932	\$5,066	11

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\$10,132

\$811



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Notes

11. Light Fixtures are installed at the exterior of the buildings. The estimated remaining useful life represents replacing the fixtures on an as-needed basis. The replacement cost shown was provided by the Association.



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Financial Analysis

The Cash Flow Chart and Cash Flow Graph (pages 144 and 15) contain a Projected Thirty (30) Year Cash Flow of the reserve requirements for the Beacon Hill Townhome Condominium Association. This analysis contains three (3) funding scenarios. The first, entitled Full Funding, is based on the assumption that all of the items which make up the schedule will be fully funded. In other words, Full Funding means that each component will accumulate its full replacement cost over the span of its Estimated Useful Life. When a component reaches the end of its useful life (which varies for each reserve component), the component would be replaced and the funding cycle would immediately begin again for that particular component.

Because expenditures vary from year to year, the Annual Contribution to the reserve changes over the projection period. Since it is impractical for the Association to adjust the amount of its contribution to the reserve fund on a yearly basis, a cash flow analysis based on an average contribution amount (designated Average Annual Contribution) is shown under Full Funding Analysis on page 144. The average annual contribution is based on an average of Full Funding contributions over 30 Years.

The second funding scenario, entitled Current Funding, represents a projection of the Association's current contribution amount for the next 30 years. It is based on the Beginning Balance provided by Tabitha Palmer and the calculated expenditures.

The third funding scenario, entitled Baseline Funding, is based on keeping the Reserve Fund Balance above a threshold value of \$0. This funding scenario entails substantial risk since any change in replacement costs or replacement timeframes could potentially cause the Reserve Fund Balance to drop below zero dollars in a given year.

- 1. The Full Funding Annual Contribution for the year beginning 2016 would be \$80,523. This amount is taken directly from the Summary of Replacement Reserve Needs on page 3, and is the amount used in the cash flow projection.
- 2. Projections of the Full Funding Annual Contribution amount for Years 2017 through 2045 vary from year to year, but generally decrease over time to an amount of \$38,237 in the final year of the projection.
- 3. The Full Funding Average Annual Contribution is \$50,353. The average annual contribution is based on an average of Full Funding contributions over 30 Years.
- 4. The Annual Contribution for the 30 year time frame, when applying Baseline Funding, is \$45,265. If the Association implements Baseline Funding, it is imperative that the Reserve Study be updated annually to minimize the danger of creating a deficit in the reserve fund.

On the Projected Thirty (30) Year Cash Flow Chart on page 144, the column entitled Reserve Fund Balance shows the projected reserve fund amounts over the 30 year period. This cash balance is also represented by the upper line on the Cash Flow Graph (see page 155) which is designated as the Reserve Fund Balance – Full Funding. This is calculated by taking the amount that is currently



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contained in the reserve fund, adding to it the Average Annual Contribution, and subtracting the Annual Expenditure, if any.

The column entitled Reserve Fund Balance under Baseline Funding shows the projected reserve fund amounts over the 30 year period. The Reserve Fund Balance – Baseline Funding is represented by the second line on the Cash Flow Graph on page 15 and is calculated in the same manner as the Reserve Fund Balance – Full Funding, except that the Annual Contribution is used instead of the Average Annual Contribution.



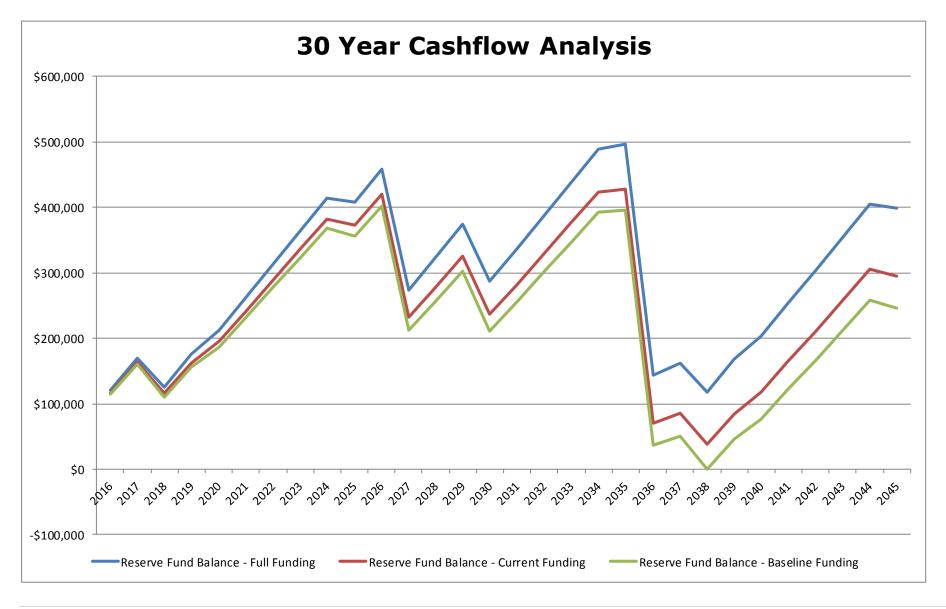
Thirty Year Cash Flow Chart

Beacon Hill Townhome Condominium Association Component Schedule Summary of Replacement Reserve Needs

Effective Date: January 1, 2016

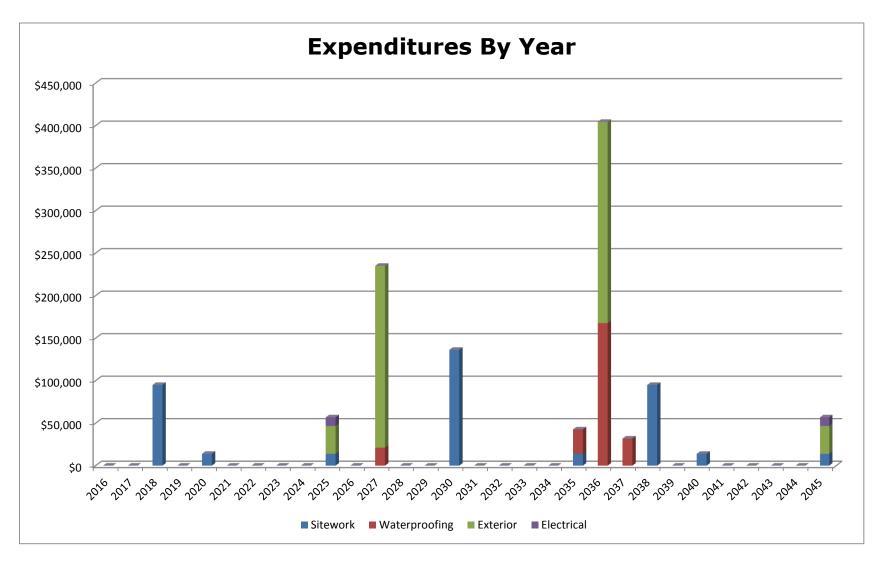
		CURRENT FUND	ING ANALYSIS	FULL	FUNDING ANALY	SIS	BASELINE FUNDING ANALYSIS			
YEAR BEGINNING	ANNUAL EXPENDITURE	ANNUAL CONTRIBUTION	RESERVE FUND BALANCE	REQUIRED ANNUAL CONTRIBUTION	AVERAGE REQUIRED ANNUAL CONTRIBUTION	RESERVE FUND BALANCE	ANNUAL CONTRIBUTION	RESERVE FUND BALANCE		
В	Pooling Factor: eginning Balance:		\$69,563			100.00% \$69,563		89.90% \$69,563		
2016	\$0	\$46,900	\$116,463	\$80,523	\$50,353	\$119,916	\$45,265	\$114,828		
2017	\$0	\$46,900	\$163,363	\$86,551	\$50,353	\$170,269	\$45,265	\$160,093		
2018	\$94,920	\$46,900	\$115,343	\$104,804	\$50,353	\$125,702	\$45,265	\$110,439		
2019	\$0	\$46,900	\$162,243	\$57,290	\$50,353	\$176,055	\$45,265	\$155,704		
2020	\$13,908	\$46,900	\$195,235	\$59,523	\$50,353	\$212,500	\$45,265	\$187,062		
2021	\$0	\$46,900	\$242,135	\$55,444	\$50,353	\$262,853	\$45,265	\$232,327		
2022	\$0	\$46,900	\$289,035	\$55,853	\$50,353	\$313,206	\$45,265	\$277,592		
2023	\$0	\$46,900	\$335,935	\$56,523	\$50,353	\$363,559	\$45,265	\$322,857		
2024	\$0	\$46,900	\$382,835	\$57,783	\$50,353	\$413,912	\$45,265	\$368,122		
2025	\$56,820	\$46,900	\$372,916	\$61,145	\$50,353	\$407,445	\$45,265	\$356,568		
2026	\$0	\$46,900	\$419,816	\$55,554	\$50,353	\$457,798	\$45,265	\$401,833		
2027	\$235,050	\$46,900	\$231,666	\$60,734	\$50,353	\$273,101	\$45,265	\$212,048		
2028	\$0	\$46,900	\$278,566	\$43,269	\$50,353	\$323,454	\$45,265	\$257,314		
2029	\$0	\$46,900	\$325,466	\$43,666	\$50,353	\$373,807	\$45,265	\$302,579		
2030	\$136,268	\$46,900	\$236,097	\$45,114	\$50,353	\$287,892	\$45,265	\$211,576		
2031	\$0	\$46,900	\$282,997	\$40,333	\$50,353	\$338,245	\$45,265	\$256,841		
2032	\$0	\$46,900	\$329,897	\$40,312	\$50,353	\$388,598	\$45,265	\$302,106		
2033	\$0	\$46,900	\$376,797	\$40,314	\$50,353	\$438,951	\$45,265	\$347,371		
2034	\$0	\$46,900	\$423,697	\$40,354	\$50,353	\$489,304	\$45,265	\$392,637		
2035	\$42,608	\$46,900	\$427,989	\$40,504	\$50,353	\$497,049	\$45,265	\$395,294		
2036	\$404,320	\$46,900	\$70,569	\$40,453	\$50,353	\$143,082	\$45,265	\$36,240		
2037	\$31,850	\$46,900	\$85,619	\$38,498	\$50,353	\$161,585	\$45,265	\$49,655		
2038	\$94,920	\$46,900	\$37,599	\$38,443	\$50,353	\$117,018	\$45,265	\$0		
2039	\$0	\$46,900	\$84,499	\$38,232	\$50,353	\$167,371	\$45,265	\$45,265		
2040	\$13,908	\$46,900	\$117,492	\$38,238	\$50,353	\$203,817	\$45,265	\$76,623		
2041	\$0	\$46,900	\$164,392	\$38,223	\$50,353	\$254,169	\$45,265	\$121,888		
2042	\$0	\$46,900	\$211,292	\$38,223	\$50,353	\$304,522	\$45,265	\$167,153		
2043	\$0	\$46,900	\$258,192	\$38,225	\$50,353	\$354,875	\$45,265	\$212,419		
2044	\$0	\$46,900	\$305,092	\$38,227	\$50,353	\$405,228	\$45,265	\$257,684		
2045	\$56,820	\$46,900	\$295,172	\$38,237	\$50,353	\$398,762	\$45,265	\$246,129		
TOTAL		\$1,407,000		\$1,510,590	\$1,510,590		\$1,357,957			

Thirty Year Projection Graph



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Expenditures Graph By Year



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Expenditures List By Year

2016		2024	
2016:		2031:	
2017:		2032:	
2018:	Asphalt Pavement, Overlay	2033:	
2019:		2034:	
2020:	Asphalt Pavement, Sealcoat	2035:	Asphalt Pavement, Sealcoat, Roof Replacement- Building 9
2021:		2036:	Roof Replacement- Building 1, Roof Replacement- Building 3, Roof Replacement- Building 4, Roof Replacement- Building 5, Roof Replacement- Building 6, Roof Replacement- Building 7, Roof Replacement- Building 8, Vinyl Siding
2022:		2037:	Roof Replacement- Building 2
2023:		2038:	Asphalt Pavement, Overlay
2024:		2039:	, ,
2025:	Asphalt Pavement, Sealcoat, Shutters, Light Fixtures- Floodlights	2040:	Asphalt Pavement, Sealcoat
2026:		2041:	
2027:	Gutters and Downspouts, Masonry Wall Repointing (50%)	2042:	
2028:		2043:	
2029:		2044:	
2030:	Asphalt Pavement, Sealcoat, Concrete Curbs, Concrete Sidewalks	2045:	Asphalt Pavement, Sealcoat, Shutters, Light Fixtures- Floodlights



Beacon Hill Townhome Condominium Association Project No. 11645-01 July 29, 2015

Disclosures

In accordance with the *National Reserve Study Standards* of the Community Associations Institute, the following disclosures are provided regarding the preparation of this Reserve Study.

General. Kipcon Incorporated is not aware of any involvement with the Beacon Hill Townhome Condominium Association which could result in any actual or perceived conflicts of interest which would influence the preparation of this study.

Physical Analysis. The on-site observations which were performed in the preparation of this study were cursory in nature and only included the accessible common and limited common elements. In addition, no field measurements were taken to confirm or provide quantities unless specifically outlined within this report.

Financial Analysis. Unless specifically noted within this report, Kipcon Incorporated has not utilized any assumptions in regard to interest, inflation, taxes, or any other outside economic factors.

Personnel Credentials. This study has been prepared under the direction of Mitchell H. Frumkin, P.E., R.S., C.G.P. Comprehensive curriculum vitae can be provided on request.

Completeness. Kipcon Incorporated is not aware of any material issues, which if not disclosed, would cause a distortion of the Association's situation.

Reliance on Client Data. Information provided by the official representative of the Association regarding financial, physical, quantity, or historical issues will be deemed reliable by Kipcon Incorporated.

Scope. This Reserve Study will be a reflection of information provided to Kipcon Incorporated and assembled for the Association's use, not for the purpose of performing an audit, quality/forensic analyses, or background checks of historical records.

Reserve Balance. The actual or projected total presented in this Reserve Study is based upon the information provided and was not audited.

Reserve Projects. Information provided to Kipcon Incorporated about the reserve project will be considered reliable. Any on-site inspection should not be considered a project audit or quality inspection.

Reserve Study Updates. The items which are included in the Component Inventory are based on information provided in the report being updated, and are reliant on the validity of the previously developed Reserve Study. The quantities have not been confirmed by Kipcon Incorporated unless specifically noted. The quantities in the previously developed Reserve Study have been considered to be deemed accurate by the Association. No components have been added to or removed from the most recent Component Inventory unless specifically indicated in the Notes section of this report.



Glossary of Abbreviations

<u>Abbreviation</u> <u>Definition</u> <u>Abbreviation</u> <u>Definition</u>

	•		
Avg.	Average	Lg.	Long, Length
B.F.	Board Feet	L.S.	Lump Sum
Bit/Bitum.	Bituminous	Maint.	Maintenance
Bldg.	Building	Mat., Mat'l.	Material
Brk.	Brick	Max.	Maximum
Calc.	Calculated	MBF	Thousand Board Feet
C.C.F.	Hundred Cubic Feet	M.C.F.	Thousand Cubic Feet
C.F.	Cubic Feet	Min.	Minimum
C.L.F.	Hundred Lineal Feet	Misc.	Miscellaneous
Col.	Column	M.L.F.	Thousand Lineal Feet
Conc.	Concrete	M.S.F	Thousand Square Feet
Cont.	Continuous, Continued	M.S.Y.	Thousand Square Yards
C.S.F.	Hundred Square Feet	NA	Not Available/Applicable
Cu. Ft.	Cubic Feet	No.	Number
C.Y.	Cubic Yard	O.C.	On Center
DHW	Domestic Hot Water	P.E.	Professional Engineer
Diam.	Diameter	Ply.	Plywood
Ea.	Each	Pr.	Pair
Est.	Estimated	PVC	Polyvinyl Chloride
Ext.	Exterior	Pvmt.	Pavement
Fig.	Figure	Quan., Qty.	Quantity
Fin.	Finished	R.C.P.	Reinforced Concrete Pipe
Fixt.	Fixture	Reinf.	Reinforced
Flr.	Floor	Req'd	Required
FRP	Fiberglass Reinforced Plastic	Sch., Sched.	Schedule
Ft.	Foot, Feet	S.F.	Square Feet
Galv.	Galvanized	Sq.	Square
Ht.	Height	Std.	Standard
Htrs.	Heaters	S.Y.	Square Yards
HVAC	Heating, Ventilation and AC	Sys.	System
HW	Hot Water	T & G	Tongue and Groove
In.	Inch	Th., Thk.	Thick
Int.	Interior	Tot.	Total
Inst.	Installation	Unfin.	Unfinished
Insul.	Insulation	V.C.T.	Vinyl Composition Tile
lb.	Pound	Vent.	Ventilator

Yd.

Yard

L.F.

Lineal Feet



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