

February 11, 2020

Mr. David Eager Executive Director Kentucky Retirement Systems 1260 Louisville Road Frankfort, KY 40601

# Re: Actuarial Analysis of Proposed Pension Reform Legislation HB 171 HCS (as amended to change the amortization period to 27 years as of July 1, 2019) and its Financial Impact on the Kentucky Retirement Systems AA Statement 1 of 1

Dear Mr. Eager:

We have reviewed the proposed changes in the pension reform legislation HB 171 (as amended to change the amortization period to 27 years as of July 1, 2019) and the purpose of this letter is to communicate the actuarial analysis of this legislation on the KERS Non-Hazardous retirement and insurance funds.

#### **Provisions of Proposed Legislation**

This version of the proposed legislation would change the amortization period for financing the unfunded liability for the KERS non-hazardous retirement and insurance funds from 24 years to 27 years as of June 30, 2019.

Additionally, beginning with the 2020/2021 fiscal year, this proposed legislation would change the method for allocating the contribution requirement related to the amortization of the unfunded actuarial accrued liability among employers from a percentage of payroll to a percentage of each individual employer's percentage of the System's total actuarial accrued liability based on the June 30, 2019 actuarial valuation. Employers would continue contributing a normal cost as a percentage of their employees' covered payroll.

#### **Summary of Cost Impact**

The change in the amortization period decreases the employer contribution by \$70 million (retirement and insurance funds combined) for the 2020/2021 fiscal year (or a decrease from 93.01% of pay to 88.15% of pay). However, this contribution savings is offset by the fact that the participating employers will be financing the unfunded actuarial accrued liability an additional three years (i.e. to fiscal year 2045/2046 in the proposed legislation versus fiscal year 2042/2043 in the current plan).

The change to the method of allocating the contribution requirement among employers would have no fiscal impact to the Retirement System as a whole; **however**, **we believe this legislation will** significantly reduce the System's risk of receiving insufficient contributions because employers will no longer be able to reduce their pension cost by reducing their covered payroll. In summary, we believe this legislation (including the change to the 27 year amortization period) will result in improved and sustainable funding policy for the KERS Non-Hazardous System.

While the proposed legislation reduces the employer contributions to the System in total, the proposed legislation modifies the method for allocating the total contribution requirement to the participating employers in the System from being based on covered payroll to the employer's share of the System's actuarial accrued liability. As a result, each participating employer's contribution requirement could increase or decrease.

Below is a table summarizing the expected magnitude of the change in the contribution requirement by employer type.

|                         | _                             | Effective Con | tribution Rate | Estimated Requi | ired Contribution |
|-------------------------|-------------------------------|---------------|----------------|-----------------|-------------------|
| Agency Type             | Projected<br>FY 20/21 Payroll | Current       | Proposed       | Current         | Proposed          |
| (1)                     | (2)                           | (3)           | (4)            | (5)             | (6)               |
| Health Department       | \$93.2                        | 93.01%        | 90.73%         | \$86.7          | \$84.6            |
| Non-P1 State Assoc/Corp | 27.6                          | 93.01%        | 57.41%         | 25.7            | 15.8              |
| Non-P1 State Agencies   | 10.1                          | 93.01%        | 32.34%         | 9.4             | 3.3               |
| Reg Mental Health Units | 89.7                          | 93.01%        | 85.62%         | 83.4            | 76.8              |
| Universities            | 104.0                         | 93.01%        | 71.74%         | 96.7            | 74.6              |
| Judicial Branch         | 55.6                          | 93.01%        | 57.46%         | 51.7            | 32.0              |
| Legislative Branch      | 20.8                          | 93.01%        | 106.83%        | 19.4            | 22.2              |
| Master Commissioner     | 3.1                           | 93.01%        | 50.24%         | 2.9             | 1.6               |
| County Attorneys        | 14.4                          | 93.01%        | 48.31%         | 13.4            | 7.0               |
| Executive Branch        | <u>1,019.2</u>                | 93.01%        | 93.16%         | <u>947.9</u>    | <u>949.5</u>      |
| Total for all employers | \$1,437.7                     | 93.01%        | 88.15%         | \$1,337.2       | \$1,267.4         |

# Table 1. Comparison of Contribution Effort for Current and Proposed Method (\$ in Millions)

Please refer to Exhibits 1. and 2. for the expected fiscal impact of the proposed legislation for the Commonwealth and each individual agency.

Exhibits 3. and 4. provide a 30-year projection of the liability and contribution requirements of the pension and insurance funds under the current plan and the proposed plan, as well as a summary of the fiscal impact of the proposed legislation.



#### **Comments regarding the Proposed Legislation**

*Amortization Period Change* – Increasing the amortization period from 24 years to 27 years as of June 30, 2019 does not change the liability of or the projected benefit payments to be paid from the retirement and insurance funds. Rather it increases the number of years employers are expected to pay for the current unfunded liability, which results in a decrease in the annual contribution requirement.

As we have noted in the 2019 actuarial valuation report, the KERS Non-Hazardous Retirement Fund has \$16.5 billion in liability and only \$2.2 billion in plan assets. Also benefit payments and expenses during fiscal year 2018/2019 totaled \$1.012 billion and the fund is expected to receive \$0.996 billion in employer and member contributions for fiscal year 2019/2020. It is imperative that the Commonwealth maintain or increase the contribution effort for this fund until the financial condition of the fund substantially improves.

The proposed legislation decreases the employer's near-term contribution effort, which may result in some increased risk of plan assets being exhausted. However, we believe this proposed change in the amortization period and contributing the full actuarially determined rate is a more transparent and responsible method for lowering the near-term contribution requirement than other possible methods, such as mandating more optimistic actuarial assumptions (such as increasing the investment return assumption). Additionally, as previously noted, we believe the change in allocation method will significantly reduce the System's risk of receiving insufficient contributions because employers will no longer be able to reduce their pension cost by reducing their covered payroll. In summary, we believe the combination of the use of the proposed 27-year amortization and the fixed allocation method will result in a more sustainable funding outlook compared to the current payroll based contribution method.

Allocation of Contributions to Employers – Currently KRS collects contributions from participating employers based on the employer's total payroll of employees who are earning benefits in KERS (i.e. covered payroll). The actuarially determined contribution rate is comprised of two components - the normal cost rate (to pay for the benefits accruing in the next year) and the unfunded amortization (to pay for the benefits accrued by members in previous years). The unfunded amortization is calculated by first determining the dollar amount necessary to pay for the unfunded liability based on KRS's funding policy and then by dividing that dollar amount by expected covered payroll to convert that contribution requirement to a percentage of payroll (i.e. a contribution rate). Based on the June 30, 2019 actuarial valuation and a 24-year amortization period, the contribution rate for the KERS Non-Hazardous System beginning July 1, 2020 will be 93.01% of pay (pension and insurance) which is comprised of a 10.35% normal cost rate and a 82.66% amortization cost rate.

Under the current plan (24-year amortization period and contribution allocation based on pay), an employer can decrease their pension cost by \$930.10 for every \$1,000 reduction in their reported payroll to the System. Consequently, it is not surprising to see many employers participating in KRS performing deliberate workforce actions to reduce their payroll reported to the System (e.g.



through use of technology improvements, or contractors and outsourcing agencies) in order to reduce their pension cost. The reported payroll and active membership in the KERS Non-Hazardous System has decreased from \$1.732 billion in payroll and 46.6k active members in 2011 to \$1.438 billion in payroll and 33.7k active members in 2019. This is a 17% decrease in covered payroll and a 28% reduction in active membership over the last eight years. This decrease in the covered payroll requires subsequent increases in the unfunded amortization contribution rate in order to maintain the same contribution dollars to the System.

Based on historical employer behavior and the current contribution rates, we believe employers will continue reducing their covered payroll in future years if the current method for collecting contributions on covered payroll remains unchanged, which will result in contribution rates continuing to increase in future years, thereby further increasing employers' incentive to reduce covered payroll. Maintaining the current method poses a significant risk to the KERS Non-Hazardous System of receiving insufficient contributions. This proposed legislation is expected to significantly reduce this risk by reducing employers' ability to control their pension contribution requirement through covered payroll reduction.

Under the proposed legislation, employers would continue contributing a normal cost rate (10.35% of pay) times the payroll of their employees earning benefits in KERS <u>plus</u> an allocated portion of the System's annual amortization cost. The amortization cost will be based on the employer's portion of the System's total actuarial accrued liability based on the June 30, 2019 actuarial valuation. Since the amortization cost is no longer tied to employer payroll, the System would be expected to receive the entire contribution requirement regardless of employer workforce actions to reduce covered payroll. Also, since an employer's allocated portion of the amortization cost is fixed as a percentage of the System's total amortization cost, an employer can increase their payroll without seeing large increases in their pension contributions. In other words, the employers pension cost would increase by \$103.50 for every \$1,000 increase in covered payroll (versus the current \$930.10).

The dollar amount of the employer's amortization cost will increase or decrease from year-to-year, depending the System's liability and investment experience, but is expected to remain relatively level during the duration of the funding period, which would be 27 years as of July 1, 2019 under the proposed legislation. The basis for determining each employer's required amortization cost is a policy decision, but it is relatively easy to reason that this allocation method is fair because the contributions from each employer are more directly linked to the liability attributable to their current and former employees. However, the change in allocation method will result in a number of employers experiencing a significant fiscal budgeting problem for those employers experiencing an increase in pension cost. Please refer to Exhibit 2. for a list of the expected changes in the contribution requirements for individual employers.



#### **Basis of Calculations**

GRS based the calculations and analysis in this letter on the member and financial data provided by KRS for use in performing the actuarial valuation as of June 30, 2019. The projections assume no actuarial gains or losses will occur in the future, and that members will terminate, retire, become disabled, or die as anticipated by the actuarial assumptions used to perform the June 30, 2019 actuarial valuation. The analysis and projections were performed without regard to HB 1 that was enacted during the 2019 special session as individual employer elections regarding their future cessation from participating in KERS is unknown at this time.

Our calculations are based upon assumptions regarding future events, which may or may not materialize. Depending on actual plan experience, actual results could deviate significantly from our projections.

### Closing

We are not attorneys and we cannot provide a legal opinion regarding the changes in this proposed legislation. Nothing in this letter should be construed as providing legal, investment or tax advice.

Mr. White is an Enrolled Actuary. Both of the undersigned are members of the American Academy of Actuaries and we meet all of the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein. In addition, all of the undersigned are experienced in performing valuations for large public retirement systems.

Sincerely,

Daniel J. White, FSA, MAAA, EA

Enclosures

Janie Shaw, ASA, MAAA



|  |  |                               | Fixed Perc<br>the Total Amo                                 | centage of<br>rtization Cost                |                              | Required Contribution <sup>1</sup> |                                |                              | Employer Contributior<br>ired Contribution / Pay |   |
|--|--|-------------------------------|---|---|------------------------------|------------------------------------|--------------------------------|------------------------------|--|---|
| Agency Name <sup>3</sup>                               | Agency<br>Classification <sup>3</sup>    | Projected Payroll<br>FY 20/21 | Accrued Liability<br>based on<br>June 30, 2019<br>Valuation | Fixed Allocation<br>of Amortization<br>Cost | Normal Cost<br>Contributions | Amortization<br>Cost               | Total Required<br>Contribution | Normal Cost<br>Contributions | Cost   | Total Estimated<br>Required Contribution<br>as a<br>% of Expected Pay |
| (1)  | (2)                                      | (3)                           | (4)   | (5) = (4) / \$19,128M                       | (6) = (3) x 10.35%           | (7) = (5) x \$1,118M               | (8) = (6) + (7)                | (9) = (6) / (4)              | (10) = (7) / (4)                                 | (11) = (8) / (4)  |
| EXECUTIVE BRANCH AGENCIES                              | EXECUTIVE BRANCH                         | 1,019,181,420                 | 14,434,001,594  | 75.46175%                                   | 105,485,273                  | 844,031,811                        | 949,517,084                    | 10.35%                       | 82.81%   | 93.16%  |
| LEX FAYETTE CO HLTH DEPT                               | Health Departments                       | 6,279,010                     | 89,050,918  | 0.46556%                                    | 649,878                      | 5,207,240                          | 5,857,118                      | 10.35%                       | 82.93%   | 93.28%  |
| LAKE CUMBERLAND DISTRICT                               | Health Departments                       | 5,547,445                     | 73,620,021  | 0.38489%                                    | 574,161                      | 4,304,955                          | 4,879,116                      | 10.35%                       | 77.60%   | 87.95%  |
| BARREN RVR DIST HLTH DEPT                              | Health Departments                       | 5,032,523                     | 68,855,538  | 0.35998%                                    | 520,866                      | 4,026,339                          | 4,547,205                      | 10.35%                       | 80.01%   | 90.36%  |
| GREEN RVR DIST HLTH DEPT                               | Health Departments                       | 6,319,042                     | 82,561,808  | 0.43164%                                    | 654,021                      | 4,827,848                          | 5,481,869                      | 10.35%                       | 76.40%   | 86.75%  |
| NORTHERN KY DIST HLTH DEP                              | Health Departments                       | 6,243,649                     | 54,194,473  | 0.28333%                                    | 646,218                      | 3,169,017                          | 3,815,235                      | 10.35%                       | 50.76%   | 61.11%  |
| LINCOLN TRL DIST HLTH DEP<br>KY RIVER DIST HEALTH DEPT | Health Departments<br>Health Departments | 3,473,278<br>2,808,126        | 67,158,260<br>70,590,492                                    | 0.35111%<br>0.36905%                        | 359,484<br>290,641           | 3,927,129<br>4,127,786             | 4,286,613<br>4,418,427         | 10.35%<br>10.35%             | 113.07%<br>146.99%                               | 123.42%<br>157.34%  |
| MADISON CO HEALTH DEPT                                 | Health Departments                       | 3,681,668                     | 53,565,044  | 0.28004%                                    | 381,053                      | 3,132,218                          | 3,513,271                      | 10.35%                       | 85.08%   | 95.43%  |
| CUMBERLAND VLY DIST HEALT                              | Health Departments                       | 2,393,958                     | 89,949,862  | 0.47026%                                    | 247,775                      | 5,259,809                          | 5,507,584                      | 10.35%                       | 219.71%  | 230.06%   |
| WEDCO DIST HEALTH DEPT                                 | Health Departments                       | 2,630,208                     | 28,173,710  | 0.14729%                                    | 272,227                      | 1,647,423                          | 1,919,650                      | 10.35%                       | 62.63%   | 72.98%  |
| FRANKLIN CO HEALTH DEPT                                | Health Departments                       | 2,420,588                     | 22,689,496  | 0.11862%                                    | 250,531                      | 1,326,752                          | 1,577,283                      | 10.35%                       | 54.81%   | 65.16%  |
| WHITLEY CO HEALTH DEPT                                 | Health Departments                       | 1,836,382                     | 28,890,387  | 0.15104%                                    | 190,066                      | 1,689,367                          | 1,879,433                      | 10.35%                       | 91.99%   | 102.34%   |
| PIKE CO HEALTH DEPT                                    | Health Departments                       | 1,816,056                     | 25,165,288  | 0.13157%                                    | 187,962                      | 1,471,597                          | 1,659,559                      | 10.35%                       | 81.03%   | 91.38%  |
| THREE RIVERS DIST HLTH                                 | Health Departments                       | 1,405,324                     | 22,852,018  | 0.11947%                                    | 145,451                      | 1,336,260                          | 1,481,711                      | 10.35%                       | 95.09%   | 105.44%   |
| KNOX CO HEALTH DEPT                                    | Health Departments                       | 1,871,943                     | 28,079,768  | 0.14680%                                    | 193,746                      | 1,641,943                          | 1,835,689                      | 10.35%                       | 87.71%   | 98.06%  |
| PURCHASE DIST HLTH DEPT                                | Health Departments                       | 1,962,251                     | 44,833,499  | 0.23439%                                    | 203,093                      | 2,621,628                          | 2,824,721                      | 10.35%                       | 133.60%  | 143.95%   |
| CLARK CO HEALTH DEPT                                   | Health Departments                       | 1,731,244                     | 17,846,746  | 0.09330%                                    | 179,184                      | 1,043,551                          | 1,222,735                      | 10.35%                       | 60.28%   | 70.63%  |
| GATEWAY DIST HEALTH DEPT                               | Health Departments                       | 2,071,219                     | 25,855,364  | 0.13517%                                    | 214,371                      | 1,511,862                          | 1,726,233                      | 10.35%                       | 72.99%   | 83.34%  |
| N CENTRAL DIST HLTH DEPT                               | Health Departments                       | 1,534,303                     | 21,562,812  | 0.11273%                                    | 158,800                      | 1,260,873                          | 1,419,673                      | 10.35%                       | 82.18%   | 92.53%  |
| BREATHITT CO HEALTH DEPT                               | Health Departments                       | 1,335,524                     | 18,565,852  | 0.09706%                                    | 138,227                      | 1,085,606                          | 1,223,833                      | 10.35%                       | 81.29%   | 91.64%  |
| PENNYRILE DIST HLTH DEPT                               | Health Departments                       | 1,606,165                     | 16,344,611  | 0.08545%                                    | 166,238                      | 955,749                            | 1,121,987                      | 10.35%                       | 59.51%   | 69.86%  |
| MARSHALL CO HEALTH DEPT                                | Health Departments                       | 1,436,565                     | 17,193,457  | 0.08989%                                    | 148,684                      | 1,005,410                          | 1,154,094                      | 10.35%                       | 69.99%   | 80.34%  |
| CHRISTIAN CO HEALTH DEPT<br>MONTGOMERY CO HEALTH DEPT  | Health Departments                       | 1,287,747                     | 13,360,854  | 0.06985%<br>0.06215%                        | 133,282                      | 781,265<br>695,141                 | 914,547<br>843,690             | 10.35%<br>10.35%             | 60.67%<br>48.43%                                 | 71.02%<br>58.78%  |
| HOPKINS CO HEALTH DEPT                                 | Health Departments<br>Health Departments | 1,435,257<br>1,446,874        | 11,887,257<br>17,815,060                                    | 0.09314%                                    | 148,549<br>149,751           | 1,041,761                          | 1,191,512                      | 10.35%                       | 48.43%   | 82.35%  |
| JOHNSON CO HEALTH DEPT                                 | Health Departments                       | 1,214,044                     | 15,484,079  | 0.08095%                                    | 125,654                      | 905,417                            | 1,031,071                      | 10.35%                       | 72.00%   | 84.93%  |
| FLOYD CO HEALTH CENTER                                 | Health Departments                       | 940,121                       | 12,800,870  | 0.06692%                                    | 97,303                       | 748,493                            | 845,796                        | 10.35%                       | 79.62%   | 89.97%  |
| ASHLAND BOYD CO HEALTH DP                              | Health Departments                       | 1,077,672                     | 17,780,422  | 0.09296%                                    | 111,539                      | 1,039,748                          | 1,151,287                      | 10.35%                       | 96.48%   | 106.83%   |
| LAUREL CO HEALTH DEPT                                  | Health Departments                       | 1,137,856                     | 14,475,341  | 0.07568%                                    | 117,768                      | 846,473                            | 964,241                        | 10.35%                       | 74.39%   | 84.74%  |
| BULLITT CO HEALTH DEPT                                 | Health Departments                       | 1,194,114                     | 13,823,739  | 0.07227%                                    | 123,591                      | 808,332                            | 931,923                        | 10.35%                       | 67.69%   | 78.04%  |
| BELL CO HEALTH DEPT                                    | Health Departments                       | 852,505                       | 10,731,667  | 0.05611%                                    | 88,234                       | 627,585                            | 715,819                        | 10.35%                       | 73.62%   | 83.97%  |
| GREENUP CO HLTH DEPT                                   | Health Departments                       | 921,572                       | 11,509,071  | 0.06017%                                    | 95,383                       | 672,995                            | 768,378                        | 10.35%                       | 73.03%   | 83.38%  |
| JESSAMINE CO HEALTH DEPT                               | Health Departments                       | 952,499                       | 8,686,531   | 0.04541%                                    | 98,584                       | 507,906                            | 606,490                        | 10.35%                       | 53.32%   | 63.67%  |
| GRAVES CO HEALTH CENTER                                | Health Departments                       | 1,080,652                     | 6,110,503   | 0.03195%                                    | 111,847                      | 357,357                            | 469,204                        | 10.35%                       | 33.07%   | 43.42%  |
| HARLAN CO HEALTH DEPT                                  | Health Departments                       | 934,178                       | 7,218,470   | 0.03774%                                    | 96,687                       | 422,118                            | 518,805                        | 10.35%                       | 45.19%   | 55.54%  |
| OLDHAM CO HEALTH DEPT                                  | Health Departments                       | 987,904                       | 10,480,598  | 0.05479%                                    | 102,248                      | 612,820                            | 715,068                        | 10.35%                       | 62.03%   | 72.38%  |
| ALLEN CO HEALTH DEPT                                   | Health Departments                       | 840,564                       | 7,911,333   | 0.04136%                                    | 86,998                       | 462,607                            | 549,605                        | 10.35%                       | 55.04%   | 65.39%  |
| BUFFALO TRACE HEALTH DEPT                              | Health Departments                       | 779,156                       | 10,788,599  | 0.05640%                                    | 80,643                       | 630,828                            | 711,471                        | 10.35%                       | 80.96%   | 91.31%  |
| MUHLENBERG CO.HEALTH DEPT                              | Health Departments                       | 661,770                       | 7,886,100   | 0.04123%                                    | 68,493                       | 461,153                            | 529,646                        | 10.35%                       | 69.68%   | 80.03%  |
| MERCER CO HEALTH DEPT<br>LAWRENCE CO HEALTH DEPT       | Health Departments<br>Health Departments | 696,882<br>690,884            | 10,106,660<br>3,868,705                                     | 0.05284%<br>0.02023%                        | 72,127<br>71,506             | 591,010<br>226,270                 | 663,137<br>297,776             | 10.35%<br>10.35%             | 84.81%<br>32.75%                                 | 95.16%<br>43.10%  |
| WOODFORD CO HEALTH DEPT                                | Health Departments                       | 512,541                       | 5,453,322   | 0.02023%                                    | 53,048                       | 318,881                            | 371,929                        | 10.35%                       | 62.22%   | 72.57%  |
| CALLOWAY CO HEALTH DEPT                                | Health Departments                       | 565,019                       | 4,137,638   | 0.02163%                                    | 58,479                       | 241,929                            | 300,408                        | 10.35%                       | 42.82%   | 53.17%  |
| MAGOFFIN CO HEALTH DEPT                                | Health Departments                       | 544,522                       | 6,467,092   | 0.03381%                                    | 56,358                       | 378,161                            | 434,519                        | 10.35%                       | 69.45%   | 79.80%  |
| MARTIN CO HEALTH DEPT                                  | Health Departments                       | 453,796                       | 5,286,010   | 0.02764%                                    | 46,968                       | 309,151                            | 356,119                        | 10.35%                       | 68.13%   | 78.48%  |
| BOYLE CO HEALTH DEPT                                   | Health Departments                       | 551,379                       | 6,346,920   | 0.03318%                                    | 57,068                       | 371,115                            | 428,183                        | 10.35%                       | 67.31%   | 77.66%  |
| BOURBON CO HEALTH CENTER                               | Health Departments                       | 522,078                       | 10,577,403  | 0.05530%                                    | 54,035                       | 618,525                            | 672,560                        | 10.35%                       | 118.47%  | 128.82%   |
| ANDERSON CO HEALTH DEPT                                | Health Departments                       | 424,133                       | 5,076,042   | 0.02654%                                    | 43,898                       | 296,847                            | 340,745                        | 10.35%                       | 69.99%   | 80.34%  |
| LEWIS CO HEALTH DEPT                                   | Health Departments                       | 548,857                       | 3,061,131   | 0.01600%                                    | 56,807                       | 178,958                            | 235,765                        | 10.35%                       | 32.61%   | 42.96%  |
| ESTILL CO HEALTH DEPT                                  | Health Departments                       | 481,325                       | 5,579,547   | 0.02917%                                    | 49,817                       | 326,263                            | 376,080                        | 10.35%                       | 67.78%   | 78.13%  |
| LINCOLN CO HEALTH DEPT                                 | Health Departments                       | 434,068                       | 4,897,375   | 0.02560%                                    | 44,926                       | 286,333                            | 331,259                        | 10.35%                       | 65.97%   | 76.32%  |
| BRECKINRIDGE CO HEALTH BD                              | Health Departments                       | 544,432                       | 7,704,261   | 0.04028%                                    | 56,349                       | 450,528                            | 506,877                        | 10.35%                       | 82.75%   | 93.10%  |
| GRAYSON COUNTY HEALTH DEPT                             | Health Departments                       | 451,991                       | 4,598,067   | 0.02404%                                    | 46,781                       | 268,885                            | 315,666                        | 10.35%                       | 59.49%   | 69.84%  |
| LITTLE SANDY DIST HEALTH                               | Health Departments                       | -                             | 7,237,775   | 0.03784%                                    | -                            | 423,236                            | 423,236                        | N/A                          | N/A  |   |
| GARRARD COUNTY HEALTH DPT                              | Health Departments                       | 325,193                       | 3,926,271   | 0.02053%                                    | 33,657                       | 229,626                            | 263,283                        | 10.35%                       | 70.61%   |   |
| TODD CO HEALTH DEPT                                    | Health Departments                       | 586,208                       | 4,687,868   | 0.02451%                                    | 60,673                       | 274,142                            | 334,815                        | 10.35%                       | 46.77%   | 57.12%  |

|                                  |  |                               | Fixed Pero<br>the Total Amo                                 | centage of<br>rtization Cost                |                              | Required Contribution <sup>1</sup> |                                | Effective Employer Contribution Rate <sup>2</sup><br>Required Contribution / Payroll |                      |   |  |
|----------------------------------|--|-------------------------------|---|---|------------------------------|------------------------------------|--------------------------------|--|----------------------|---|--|
| Agency Name <sup>3</sup>         | Agency<br>Classification <sup>3</sup>          | Projected Payroll<br>FY 20/21 | Accrued Liability<br>based on<br>June 30, 2019<br>Valuation | Fixed Allocation<br>of Amortization<br>Cost | Normal Cost<br>Contributions | Amortization<br>Cost               | Total Required<br>Contribution | Normal Cost<br>Contributions   | Amortization<br>Cost | Total Estimated<br>Required Contribution<br>as a<br>% of Expected Pay |  |
| (1)                              | (2)  | (3)                           | (4)   | (5) = (4) / \$19,128M                       | (6) = (3) x 10.35%           | (7) = (5) x \$1,118M               | (8) = (6) + (7)                | (9) = (6) / (4)  | (10) = (7) / (4)     | (11) = (8) / (4)  |  |
| FLEMING CO HEALTH DEP            | Health Departments                             | 348,816                       | 4,386,549   | 0.02293%                                    | 36,102                       | 256,470                            | 292,572                        | 10.35%   | 73.53%               | 6 83.88%  |  |
| MONROE CO HEALTH DEPT            | Health Departments                             | 379,290                       | 3,137,459   | 0.01640%                                    | 39,257                       | 183,432                            | 222,689                        | 10.35%   | 48.36%               |   |  |
| BRACKEN CO HEALTH DEPT           | Health Departments                             | 348,044                       | 2,410,616   | 0.01260%                                    | 36,023                       | 140,930                            | 176,953                        | 10.35%   | 40.49%               |   |  |
| POWELL CO HEALTH DEPT            | Health Departments                             | 298,757                       | 4,200,545   | 0.02196%                                    | 30,921                       | 245,620                            | 276,541                        | 10.35%   | 82.21%               |   |  |
| CARTER CO HEALTH DEPT            | Health Departments                             | 328,054                       | 1,936,351   | 0.01012%                                    | 33,954                       | 113,191                            | 147,145                        | 10.35%   | 34.50%               |   |  |
| KY HIGHER ED STUD LN CORP        | Non-P1 State Assoc/Corp.                       | 11,081,890                    | 81,896,904  | 0.42816%                                    | 1,146,976                    | 4,788,925                          | 5,935,901                      | 10.35%   | 43.21%               |   |  |
| KENTUCKY HOUSING CORP            | Non-P1 State Assoc/Corp.                       | 9,887,127                     | 98,280,874  | 0.51382%                                    | 1,023,318                    | 5,747,023                          | 6,770,341                      | 10.35%   | 58.13%               |   |  |
| CSG HEADQUARTERS                 | Non-P1 State Assoc/Corp.                       | 3,572,893                     | 19,274,916  | 0.10077%                                    | 369,794                      | 1,127,102                          | 1,496,896                      | 10.35%   | 31.55%               |   |  |
|                                  | Non-P1 State Assoc/Corp.                       | 1,718,678                     | 15,066,238  | 0.07877%                                    | 177,883                      | 881,034                            | 1,058,917                      | 10.35%   | 51.26%               |   |  |
| ASST OF COMMONWEALTH ATTY        | Non-P1 State Assoc/Corp.                       | 1,086,231                     | 5,807,856   | 0.03036%                                    | 112,425                      | 339,573                            | 451,998                        | 10.35%   | 31.26%               |   |  |
| HIGHSCHOOL ATHLETIC ASSOC        | Non-P1 State Assoc/Corp.                       | 205,880                       | 1,413,847   | 0.00739%                                    | 21,309                       | 82,656                             | 103,965                        | 10.35%   | 40.15%               |   |  |
| O A S I S                        | Non-P1 State Agencies                          | 640,209                       | 2,304,549   | 0.01205%                                    | 66,262                       | 134,778                            | 201,040                        | 10.35%   | 21.05%               |   |  |
| KDVA                             | Non-P1 State Agencies                          | 871,207                       | 2,431,059   | 0.01271%                                    | 90,170                       | 142,160                            | 232,330                        | 10.35%   | 16.32%               |   |  |
| B.R.A.S.S.                       | Non-P1 State Agencies                          | 638,864                       | 2,132,362   | 0.01115%                                    | 66,122                       | 124,712                            | 190,834                        | 10.35%   | 19.52%               |   |  |
| BLUEGRASS RAPE CRISIS CTR        | Non-P1 State Agencies                          | 569,641                       | 2,744,493   | 0.01435%                                    | 58,958                       | 160,503                            | 219,461                        | 10.35%   | 28.18%               |   |  |
| SAFE HARBOR                      | Non-P1 State Agencies                          | 651,225                       | 1,312,696   | 0.00686%                                    | 67,402                       | 76,728                             | 144,130                        | 10.35%   | 11.78%               |   |  |
| SANCTUARY INC                    | Non-P1 State Agencies                          | 634,076                       | 2,510,255   | 0.01312%                                    | 65,627                       | 146,746                            | 212,373                        | 10.35%   | 23.14%               |   |  |
|                                  | Non-P1 State Agencies                          | 820,631                       | 1,074,054   | 0.00562%                                    | 84,935                       | 62,859                             | 147,794                        | 10.35%   | 7.66%                |   |  |
| BETHANY HOUSE ABUSE SHELT        | Non-P1 State Agencies                          | 462,201                       | 1,675,224   | 0.00876%                                    | 47,838                       | 97,980                             | 145,818                        | 10.35%   | 21.20%               |   |  |
| SPRINGHAVEN INC<br>KASAP         | Non-P1 State Agencies                          | 346,635                       | 1,527,812   | 0.00799%                                    | 35,877                       | 89,367                             | 125,244                        | 10.35%   | 25.78%               |   |  |
|                                  | Non-P1 State Agencies                          | 401,601                       | 943,862   | 0.00493%                                    | 41,566                       | 55,142                             | 96,708                         | 10.35%   | 13.73%               |   |  |
| SILVERLEALF<br>WOMEN AWARE       | Non-P1 State Agencies<br>Non-P1 State Agencies | 411,241<br>213,308            | 2,017,711   | 0.01055%<br>0.00510%                        | 42,563                       | 118,001                            | 160,564<br>79,120              | 10.35%<br>10.35%   | 28.69%<br>26.74%     |   |  |
| D.O.V.E.S.                       |  |                               | 975,811   | 0.00510%                                    | 22,077<br>44,843             | 57,043<br>77,176                   |                                | 10.35%   | 17.81%               |   |  |
| NURSING HOME OMBUDSMAN           | Non-P1 State Agencies<br>Non-P1 State Agencies | 433,267<br>235,384            | 1,319,147<br>879,808  | 0.00460%                                    | 24,362                       | 51,451                             | 122,019<br>75,813              | 10.35%   | 21.86%               |   |  |
| HOPE HARBOR INC                  | Non-P1 State Agencies                          | 349,924                       | 879,808   | 0.00431%                                    | 36,217                       | 48,207                             | 84,424                         | 10.35%   | 13.78%               |   |  |
| KY OFFICE OF BAR ADMISSIO        | Non-P1 State Agencies                          | 204,270                       | 2,552,890   | 0.01335%                                    | 21,142                       | 149,318                            | 170,460                        | 10.35%   | 73.10%               |   |  |
| CHILD WATCH ADVOCACY CTR         | Non-P1 State Agencies                          | 227,648                       | 759,321   | 0.00397%                                    | 23,562                       | 44,404                             | 67,966                         | 10.35%   | 19.51%               |   |  |
| FRANKLIN CO COUNCIL AGING        | Non-P1 State Agencies                          | 110,250                       | 2,147,140   | 0.01123%                                    | 11,411                       | 125,606                            | 137,017                        | 10.35%   | 113.93%              |   |  |
| JUDI'S PLACE FOR KIDS, INC.      | Non-P1 State Agencies                          | 363,068                       | 777,468   | 0.00406%                                    | 37,578                       | 45,411                             | 82,989                         | 10.35%   | 12.51%               |   |  |
| CUMBERLAND V C A CENTER          | Non-P1 State Agencies                          | 300,383                       | 821,917   | 0.00430%                                    | 31,090                       | 48,095                             | 79,185                         | 10.35%   | 16.01%               |   |  |
| KY ASSOC OF REGIONAL PROG        | Non-P1 State Agencies                          | 118,750                       | 1,817,343   | 0.00950%                                    | 12,291                       | 106,257                            | 118,548                        | 10.35%   | 89.48%               |   |  |
| BARREN RIVER CHILD ADVOCA        | Non-P1 State Agencies                          | 215,348                       | 406,450   | 0.00212%                                    | 22,289                       | 23,712                             | 46,001                         | 10.35%   | 11.01%               |   |  |
| CHILD ADV CTR OF GRN RVR         | Non-P1 State Agencies                          | 156,406                       | 572,517   | 0.00299%                                    | 16,188                       | 33,443                             | 49,631                         | 10.35%   | 21.38%               |   |  |
| MUN ELEC POW ASSOC OF KY         | Non-P1 State Agencies                          | 135,616                       | 1,745,743   | 0.00913%                                    | 14,036                       | 102,118                            | 116,154                        | 10.35%   | 75.30%               |   |  |
| KY RIVER CHILD ADVOCACY          | Non-P1 State Agencies                          | 127,195                       | 290,885   | 0.00152%                                    | 13,165                       | 17,001                             | 30,166                         | 10.35%   | 13.37%               |   |  |
| PENNYRILE CHILD ADV CTR          | Non-P1 State Agencies                          | 125,509                       | 460,162   | 0.00241%                                    | 12,990                       | 26,956                             | 39,946                         | 10.35%   | 21.48%               |   |  |
| LAKE CUMB CHILD ADV CTR          | Non-P1 State Agencies                          | 178,427                       | 545,959   | 0.00285%                                    | 18,467                       | 31,877                             | 50,344                         | 10.35%   | 17.87%               | 6 28.22%  |  |
| BUFFALO TR CHILD ADV INC         | Non-P1 State Agencies                          | 96,571                        | 252,189   | 0.00132%                                    | 9,995                        | 14,764                             | 24,759                         | 10.35%   | 15.29%               | 6 25.64%  |  |
| GATEWAY CHILD ADVOCACY           | Non-P1 State Agencies                          | 34,000                        | 53,228  | 0.00028%                                    | 3,519                        | 3,132                              | 6,651                          | 10.35%   | 9.21%                | 6 19.56%  |  |
| NEW VISTA OF THE BLUEGRASS, INC. | Reg Mental HIth Units                          | 36,821,842                    | 375,801,295   | 1.96471%                                    | 3,811,061                    | 21,975,077                         | 25,786,138                     | 10.35%   | 59.68%               | 6 70.03%  |  |
| CUMBERLAND RIVER MHMR            | Reg Mental HIth Units                          | 11,237,059                    | 98,266,354  | 0.51374%                                    | 1,163,036                    | 5,746,128                          | 6,909,164                      | 10.35%   | 51.14%               | 61.49%  |  |
| LIFESKILLS INC                   | Reg Mental HIth Units                          | 8,097,314                     | 75,680,895  | 0.39566%                                    | 838,072                      | 4,425,416                          | 5,263,488                      | 10.35%   | 54.65%               | 65.00%  |  |
| COMMUNICARE INC                  | Reg Mental HIth Units                          | 5,611,288                     | 66,588,437  | 0.34813%                                    | 580,768                      | 3,893,798                          | 4,474,566                      | 10.35%   | 69.39%               | 6 79.74%  |  |
| ADANTA/BEHAVIORAL HLTH SR        | Reg Mental HIth Units                          | 5,028,478                     | 89,023,918  | 0.46542%                                    | 520,447                      | 5,205,674                          | 5,726,121                      | 10.35%   | 103.52%              | ۶ <b>113.87%</b>  |  |
| PENNYROYAL REG MHMR BD           | Reg Mental HIth Units                          | 6,603,427                     | 68,135,236  | 0.35621%                                    | 683,455                      | 3,984,172                          | 4,667,627                      | 10.35%   | 60.33%               | 6 70.68%  |  |
| MOUNTAIN COMP CARE CENTER        | Reg Mental HIth Units                          | 5,284,559                     | 45,921,039  | 0.24008%                                    | 546,952                      | 2,685,270                          | 3,232,222                      | 10.35%   | 50.81%               | 61.16%  |  |
| GREEN RVR REG MHMR BD            | Reg Mental HIth Units                          | 2,625,640                     | 32,599,922  | 0.17043%                                    | 271,754                      | 1,906,242                          | 2,177,996                      | 10.35%   | 72.60%               | <b>6</b> 82.95%   |  |
| NORTHERN KY REG MHMR BD          | Reg Mental HIth Units                          | 148,611                       | 57,312,274  | 0.29963%                                    | 15,381                       | 3,351,330                          | 3,366,711                      | 10.35%   | 2255.10%             | 6 2265.45%  |  |
| WESTERN KY REG MHMR ADV          | Reg Mental HIth Units                          | 3,595,880                     | 35,526,557  | 0.18573%                                    | 372,174                      | 2,077,371                          | 2,449,545                      | 10.35%   | 57.77%               | 68.12%  |  |
| COMPREHEND INC REG MHMR B        | Reg Mental HIth Units                          | 4,656,035                     | 29,064,447  | 0.15195%                                    | 481,900                      | 1,699,545                          | 2,181,445                      | 10.35%   | 36.50%               | <b>46.85%</b>   |  |
| SEVEN CO SERVICES INC            | Reg Mental HIth Units                          | -                             | 154,213,520   | 0.80624%                                    | -                            | 9,017,710                          | 9,017,710                      | N/A  | N/A                  | A N/A   |  |
| KY RIVER COMM CARE INC           | Reg Mental HIth Units                          | -                             | 26,687,511  | 0.13952%                                    | -                            | 1,560,517                          | 1,560,517                      | N/A  | N/A                  | •   |  |
| NORTHERN KY UNIVERSITY           | Universities                                   | 33,051,008                    | 216,716,312   | 1.13300%                                    | 3,420,779                    | 12,672,487                         | 16,093,266                     | 10.35%   | 38.34%               |   |  |
| EASTERN KY UNIV                  | Universities                                   | 14,964,357                    | 239,050,334   | 1.24977%                                    | 1,548,811                    | 13,978,547                         | 15,527,358                     | 10.35%   | 93.41%               |   |  |
| кстсѕ                            | Universities                                   | 19,171,232                    | 156,357,525   | 0.81745%                                    | 1,984,223                    | 9,143,093                          | 11,127,316                     | 10.35%   | 47.69%               | 6 58.04%  |  |

|   |  |                                      | Fixed Pero<br>the Total Amo  |  |  | Required Contribution <sup>1</sup>           |   | Effective Employer Contribution Rate <sup>2</sup><br>Required Contribution / Payroll |  |   |  |
|---|--|--------------------------------------|--|--|--|--|---|--|--|---|--|
| Agency Name <sup>3</sup><br>(1)                   | Agency<br>Classification <sup>3</sup><br>(2) | Projected Payroll<br>FY 20/21<br>(3) | Accrued Liability<br>based on<br>June 30, 2019<br>Valuation<br>(4) | Fixed Allocation<br>of Amortization<br>Cost<br>(5) = (4) / \$19,128M | Normal Cost<br>Contributions<br>(6) = (3) x 10.35% | Amortization<br>Cost<br>(7) = (5) x \$1,118M | Total Required<br>Contribution<br>(8) = (6) + (7) | Normal Cost<br>Contributions<br>(9) = (6) / (4)                                      | Amortization<br>Cost<br>(10) = (7) / (4) | Total Estimated<br>Required Contribution<br>as a<br>% of Expected Pay<br>(11) = (8) / (4) |  |
|   |  |                                      |  |  |  |  |   |  |  |   |  |
| WESTERN KENTUCKY UNIV                             | Universities                                 | 15,854,956                           | 180,798,950  | 0.94523%   | 1,640,988  | 10,572,299                                   | 12,213,287  | 10.35%   | 66.68%                                   |   |  |
| MURRAY STATE UNIV                                 | Universities                                 | 11,391,807                           | 133,053,240  | 0.69561%   | 1,179,052  | 7,780,325                                    | 8,959,377   | 10.35%   | 68.30%                                   |   |  |
| MOREHEAD STATE UNIVERSITY                         | Universities                                 | 4,766,363                            | 121,265,619  | 0.63398%   | 493,319  | 7,091,000                                    | 7,584,319   | 10.35%   | 148.77%                                  |   |  |
| KENTUCKY STATE UNIVERSITY                         | Universities                                 | 4,775,638                            | 44,391,511   | 0.23208%   | 494,279  | 2,595,791                                    | 3,090,070   | 10.35%   | 54.35%                                   |   |  |
|   | Judicial Branch                              | 55,434,113                           | 446,200,791  | 2.33276%   | 5,737,431  | 26,091,678                                   | 31,829,109  | 10.35%   | 47.07%                                   |   |  |
| JUDL JUDICIAL RET SYSTEM<br>LEGS GENERAL ASSEMBLY | Judicial Branch<br>Legislative Branch        | 179,748<br>1,384,611                 | 1,803,163<br>16,623,582  | 0.00943%<br>0.08691%   | 18,604<br>143,307                                  | 105,474<br>972,079                           | 124,078<br>1,115,386                              | 10.35%<br>10.35%   | 58.68%<br>70.21%                         |   |  |
| LEGS LEGISLATIVE RES COMM                         | Legislative Branch                           | 19,424,554                           | 326,715,349  | 1.70809%   | 2,010,441  | 19,104,809                                   | 21,115,250  | 10.35%   | 98.35%                                   |   |  |
| BELL CO MASTER COMM                               | Master Commissioner                          | -                                    | 21,748   | 0.00011%   | 2,010,441  | 1,230  | 1,230   | N/A  | N/A                                      |   |  |
| HENRY/ TRIMBLE MASTER COM                         | Master Commissioner                          | 69,167                               | 5,915  | 0.00003%   | 7,159  | 336  | 7,495   | 10.35%   | 0.49%                                    |   |  |
| LOGAN CO MASTER COM                               | Master Commissioner                          | 51,250                               | 43,009   | 0.00022%   | 5,304  | 2,461  | 7,765   | 10.35%   | 4.80%                                    |   |  |
| MASTER COMM BARREN CO                             | Master Commissioner                          | 28,392                               | 309,724  | 0.00162%   | 2,939  | 18,120                                       | 21,059  | 10.35%   | 63.82%                                   |   |  |
| MASTER COMM BATH CO                               | Master Commissioner                          |                                      | 8,810  | 0.00005%   | -  | 559  | 559   | N/A  | N/A                                      |   |  |
| MASTER COMM BOONE CO                              | Master Commissioner                          | 151,623                              | 635,210  | 0.00332%   | 15,693   | 37,134                                       | 52,827  | 10.35%   | 24.49%                                   |   |  |
| MASTER COMM BOURBON CO                            | Master Commissioner                          | -                                    | 472,560  | 0.00247%   | -  | 27,627                                       | 27,627  | N/A  | N/A                                      |   |  |
| MASTER COMM CALLOWAY CO                           | Master Commissioner                          | -                                    | 165,408  | 0.00086%   | -  | 9,619  | 9,619   | N/A  | N/A                                      | N/A   |  |
| MASTER COMM CAMPBELL CO                           | Master Commissioner                          | 111,547                              | 964,907  | 0.00504%   | 11,545   | 56,372                                       | 67,917  | 10.35%   | 50.54%                                   | 60.89%  |  |
| MASTER COMM CHRISTIAN CO                          | Master Commissioner                          | 38,016                               | 405,578  | 0.00212%   | 3,935  | 23,712                                       | 27,647  | 10.35%   | 62.37%                                   | 72.72%  |  |
| MASTER COMM CLARK CO                              | Master Commissioner                          | 21,834                               | 179,372  | 0.00094%   | 2,260  | 10,514                                       | 12,774  | 10.35%   | 48.15%                                   | 58.51%  |  |
| MASTER COMM CLINTON/CUMBE                         | Master Commissioner                          | 38,800                               | 124,378  | 0.00065%   | 4,016  | 7,270  | 11,286  | 10.35%   | 18.74%                                   | 29.09%  |  |
| MASTER COMM DAVIESS CO                            | Master Commissioner                          | 108,524                              | 1,404,675  | 0.00734%   | 11,232   | 82,097                                       | 93,329  | 10.35%   | 75.65%                                   | 86.00%  |  |
| MASTER COMM FAYETTE CO                            | Master Commissioner                          | 212,741                              | 1,178,100  | 0.00616%   | 22,019   | 68,899                                       | 90,918  | 10.35%   | 32.39%                                   | 42.74%  |  |
| MASTER COMM FLOYD CO                              | Master Commissioner                          | -                                    | 65,318   | 0.00034%   | -  | 3,803  | 3,803   | N/A  | N/A                                      | N/A   |  |
| MASTER COMM GARRARD CO                            | Master Commissioner                          | 19,394                               | 37,638   | 0.00020%   | 2,007  | 2,237  | 4,244   | 10.35%   | 11.53%                                   |   |  |
| MASTER COMM GRANT CO                              | Master Commissioner                          | 88,906                               | 156,576  | 0.00082%   | 9,202  | 9,172  | 18,374  | 10.35%   | 10.32%                                   |   |  |
| MASTER COMM GRAVES CO                             | Master Commissioner                          | -                                    | 2,200  | 0.00001%   | -  | 112  | 112   | N/A  | N/A                                      |   |  |
| MASTER COMM GRAYSON CO                            | Master Commissioner                          | 44,085                               | 68,160   | 0.00036%   | 4,563  | 4,027  | 8,590   | 10.35%   | 9.13%                                    |   |  |
| MASTER COMM HARDIN CO                             | Master Commissioner                          | 169,324                              | 988,913  | 0.00517%   | 17,525   | 57,826                                       | 75,351  | 10.35%   | 34.15%                                   |   |  |
| MASTER COMM HENDERSON CO                          | Master Commissioner                          | -                                    | 587,040  | 0.00307%   | -  | 34,338                                       | 34,338  | N/A  | N/A                                      |   |  |
| MASTER COMM HOPKINS CO                            | Master Commissioner                          | 89,703                               | 351,754  | 0.00184%   | 9,284  | 20,580                                       | 29,864  | 10.35%   | 22.94%                                   |   |  |
| MASTER COMM JEFF CIRCUIT                          | Master Commissioner                          | 424,810                              | 6,244,987  | 0.03265%   | 43,968   | 365,187                                      | 409,155   | 10.35%   | 85.96%                                   |   |  |
| MASTER COMM KENTON CO<br>MASTER COMM LAUREL CO    | Master Commissioner                          | 197,537                              | 724,278  | 0.00379%   | 20,445   | 42,391                                       | 62,836  | 10.35%   | 21.46%                                   |   |  |
| MASTER COMM MADISON CO                            | Master Commissioner<br>Master Commissioner   | 68,000<br>104,831                    | 482,138<br>788,294   | 0.00252%<br>0.00412%   | 7,038  | 28,186<br>46,082                             | 35,224<br>56,932                                  | 10.35%<br>10.35%   | 41.45%<br>43.96%                         |   |  |
| MASTER COMM MADISON CO                            | Master Commissioner                          | 104,851                              | 14,838   | 0.0008%  | 10,850   | 40,082                                       | 895   | N/A  | 43.90%<br>N/A                            |   |  |
| MASTER COMM MASON CO                              | Master Commissioner                          | 113,077                              | 849,140  | 0.000444%  | 11,703   | 49,661                                       | 61,364  | 10.35%   | 43.92%                                   |   |  |
| MASTER COMM MCCREARY CO                           | Master Commissioner                          | -                                    | 17,281   | 0.0009%  | -  | 1,007  | 1,007   | N/A  | 43.92%<br>N/A                            |   |  |
| MASTER COMM MEADE CO                              | Master Commissioner                          | 142,726                              | 308,793  | 0.00161%   | 14,772   | 18,008                                       | 32,780  | 10.35%   | 12.62%                                   |   |  |
| MASTER COMM MUHLENBERG CO                         | Master Commissioner                          | 75,244                               | 51,745   | 0.00027%   | 7,788  | 3,020  | 10,808  | 10.35%   | 4.01%                                    |   |  |
| MASTER COMM NELSON CO                             | Master Commissioner                          | 89,617                               | 309,641  | 0.00162%   | 9,275  | 18,120                                       | 27,395  | 10.35%   | 20.22%                                   |   |  |
| MASTER COMM OHIO COUNTY                           | Master Commissioner                          | -                                    | 139,242  | 0.00073%   | -  | 8,165  | 8,165   | N/A  | N/A                                      |   |  |
| MASTER COMM OLDHAM CO                             | Master Commissioner                          | 66,700                               | 215,836  | 0.00113%   | 6,903  | 12,639                                       | 19,542  | 10.35%   | 18.95%                                   |   |  |
| MASTER COMM OWEN CO                               | Master Commissioner                          | 52,071                               | 235,074  | 0.00123%   | 5,389  | 13,757                                       | 19,146  | 10.35%   | 26.42%                                   |   |  |
| MASTER COMM PIKE CO                               | Master Commissioner                          | 87,316                               | 664,641  | 0.00347%   | 9,037  | 38,812                                       | 47,849  | 10.35%   | 44.45%                                   | 54.80%  |  |
| MASTER COMM SCOTT CO                              | Master Commissioner                          | 107,965                              | 475,045  | 0.00248%   | 11,174   | 27,739                                       | 38,913  | 10.35%   | 25.69%                                   | 36.04%  |  |
| MASTER COMM SIMPSON CO                            | Master Commissioner                          | 65,167                               | 195,832  | 0.00102%   | 6,745  | 11,409                                       | 18,154  | 10.35%   | 17.51%                                   | 27.86%  |  |
| MASTER COMM WARREN CO                             | Master Commissioner                          | 146,314                              | 1,223,527  | 0.00640%   | 15,143   | 71,583                                       | 86,726  | 10.35%   | 48.92%                                   | 59.27%  |  |
| MASTER COMM WHITLEY CO                            | Master Commissioner                          | -                                    | 71,930   | 0.00038%   | -  | 4,250  | 4,250   | N/A  | N/A                                      | N/A   |  |
| MASTER COMMISSIONER HART COUNTY                   | Master Commissioner                          | 31,883                               | 9,208  | 0.00005%   | 3,300  | 559  | 3,859   | 10.35%   | 1.75%                                    |   |  |
| MASTER COMMISSIONER OF JESSAMINE COUNTY           | Master Commissioner                          | 99,758                               | 64,071   | 0.00033%   | 10,325   | 3,691  | 14,016  | 10.35%   | 3.70%                                    |   |  |
| ALLEN COUNTY ATTORNEY                             | County Attorneys                             | 73,736                               | 1,658,981  | 0.00867%   | 7,632  | 96,973                                       | 104,605   | 10.35%   | 131.51%                                  |   |  |
| ANDERSON COUNTY ATTORNEY                          | County Attorneys                             | 161,079                              | 1,971,500  | 0.01031%   | 16,672   | 115,316                                      | 131,988   | 10.35%   | 71.59%                                   |   |  |
| BARREN COUNTY ATTORNEY                            | County Attorneys                             | 418,342                              | 2,875,029  | 0.01503%   | 43,298   | 168,109                                      | 211,407   | 10.35%   | 40.18%                                   |   |  |
| BATH COUNTY ATTORNEY                              | County Attorneys                             | -                                    | 2,729  | 0.00001%   | -  | 112  | 112   | N/A  | N/A                                      |   |  |
| BELL COUNTY ATTORNEY                              | County Attorneys                             | 346,120                              | 1,931,690  | 0.01010%   | 35,823   | 112,967                                      | 148,790   | 10.35%   | 32.64%                                   |   |  |
| BOONE COUNTY ATTORNEY                             | County Attorneys                             | 1,005,496                            | 5,092,956  | 0.02663%   | 104,069  | 297,854                                      | 401,923   | 10.35%   | 29.62%                                   | 39.97%  |  |

|  |                                       |                               | Fixed Perc<br>the Total Amo  |  |  | Required Contribution <sup>1</sup>           |                                | Effective Employer Contribution Rate <sup>2</sup><br>Required Contribution / Payroll |                      |   |  |
|--|---------------------------------------|-------------------------------|--|--|--|--|--------------------------------|--|----------------------|---|--|
| Agency Name <sup>3</sup>                           | Agency<br>Classification <sup>3</sup> | Projected Payroll<br>FY 20/21 | Accrued Liability<br>based on<br>June 30, 2019<br>Valuation<br>(4) | Fixed Allocation<br>of Amortization<br>Cost<br>(5) = (4) / \$19,128M | Normal Cost<br>Contributions<br>(6) = (3) x 10.35% | Amortization<br>Cost<br>(7) = (5) x \$1,118M | Total Required<br>Contribution | Normal Cost<br>Contributions   | Amortization<br>Cost | Total Estimated<br>Required Contribution<br>as a<br>% of Expected Pay |  |
| (1)  | (2)                                   | (3)                           | (4)  | (5) - (4) / \$19,120101  | (0) - (3) X 10.35%                                 | (7) - (5) X \$1,110101                       | (8) = (6) + (7)                | (9) = (6) / (4)  | (10) = (7) / (4)     | (11) = (8) / (4)  |  |
| BOYLE COUNTY ATTORNEY                              | County Attorneys                      | 171,740                       | 155,378  | 0.00081%   | 17,775   | 9,060  | 26,835                         | 10.35%   | 5.28%                |   |  |
| BRECKINRIDGE CO ATTORNEY                           | County Attorneys                      | 256,024                       | 1,029,674  | 0.00538%   | 26,498   | 60,175                                       | 86,673                         | 10.35%   | 23.50%               |   |  |
| BULLITT COUNTY ATTORNEY                            | County Attorneys                      | 105,419                       | 703,350  | 0.00368%   | 10,911   | 41,160                                       | 52,071                         | 10.35%   | 39.04%               |   |  |
| CALLOWAY COUNTY ATTORNEY                           | County Attorneys                      | -                             | 54,643   | 0.00029%   | -  | 3,244  | 3,244                          | N/A  | N/A                  | -   |  |
| CARROLL COUNTY ATTORNEY                            | County Attorneys                      | 212,670                       | 873,614  | 0.00457%   | 22,011   | 51,115                                       | 73,126                         | 10.35%   | 24.03%               |   |  |
| CASEY COUNTY ATTORNEY                              | County Attorneys                      | 176,393                       | 947,428  | 0.00495%   | 18,257   | 55,365                                       | 73,622                         | 10.35%   | 31.39%               |   |  |
| CHILD SUPPORT ENCORCEMENT                          | County Attorneys                      | 377,891                       | 255,979  | 0.00134%   | 39,112   | 14,988                                       | 54,100                         | 10.35%   | 3.97%                |   |  |
| CHRISTIAN COUNTY ATTORNEY<br>CLARK COUNTY ATTORNEY | County Attorneys                      | 126,490<br>264,741            | 984,086<br>1,322,750   | 0.00514%<br>0.00692%   | 13,092<br>27,401                                   | 57,490<br>77,399                             | 70,582                         | 10.35%<br>10.35%   | 45.45%<br>29.24%     |   |  |
| CRITTENDEN CO ATTORNEY                             | County Attorneys<br>County Attorneys  | 114,306                       | 365,437  | 0.00191%   | 11,831   | 21,363                                       | 104,800<br>33,194              | 10.35%   | 18.69%               |   |  |
| DAVIESS COUNTY ATTORNEY                            | County Attorneys                      | 227,589                       | 1,578,350  | 0.00191%   | 23,555   | 92,275                                       | 115,830                        | 10.35%   | 40.54%               |   |  |
| EDMONSON COUNTY ATTORNEY                           | County Attorneys                      | 149,318                       | 474,886  | 0.00248%   | 15,454   | 27,739                                       | 43,193                         | 10.35%   | 18.58%               |   |  |
| FAYETTE CO ATTORNEY OFF                            | County Attorneys                      | 214,370                       | 3,136,743  | 0.01640%   | 22,187   | 183,432                                      | 205,619                        | 10.35%   | 85.57%               |   |  |
| FLOYD COUNTY ATTORNEY                              | County Attorneys                      | 101,215                       | 1,121,075  | 0.00586%   | 10,476   | 65,543                                       | 76,019                         | 10.35%   | 64.76%               |   |  |
| FRANKLIN COUNTY ATTORNEY                           | County Attorneys                      | 488,950                       | 4,833,960  | 0.02527%   | 50,606   | 282,642                                      | 333,248                        | 10.35%   | 57.81%               |   |  |
| GARRARD COUNTY ATTORNEY                            | County Attorneys                      | 207,457                       | 988,761  | 0.00517%   | 21,472   | 57,826                                       | 79,298                         | 10.35%   | 27.87%               |   |  |
| GRANT COUNTY CHILD SUPPOR                          | County Attorneys                      | 202,677                       | 363,477  | 0.00190%   | 20,977   | 21,251                                       | 42,228                         | 10.35%   | 10.49%               |   |  |
| GRAVES COUNTY ATTORNEY                             | County Attorneys                      | 463,368                       | 3,272,663  | 0.01711%   | 47,959   | 191,374                                      | 239,333                        | 10.35%   | 41.30%               |   |  |
| HANCOCK COUNTY ATTORNEY                            | County Attorneys                      | 172,169                       | 386,098  | 0.00202%   | 17,819   | 22,593                                       | 40,412                         | 10.35%   | 13.12%               |   |  |
| HARRISON COUNTY ATTORNEY                           | County Attorneys                      | 36,413                        | 114,873  | 0.00060%   | 3,769  | 6,711  | 10,480                         | 10.35%   | 18.43%               |   |  |
| HICKMAN COUNTY ATTORNEY                            | County Attorneys                      | 185,703                       | 1,028,593  | 0.00538%   | 19,220   | 60,175                                       | 79,395                         | 10.35%   | 32.40%               |   |  |
| HOPKINS COUNTY ATTORNEY                            | County Attorneys                      | 240,933                       | 1,751,470  | 0.00916%   | 24,937   | 102,454                                      | 127,391                        | 10.35%   | 42.52%               |   |  |
| JACKSON COUNTY ATTORNEY                            | County Attorneys                      | 102,216                       | 700,551  | 0.00366%   | 10,579   | 40,937                                       | 51,516                         | 10.35%   | 40.05%               |   |  |
| JEFFERSON CO ATTORNEY                              | County Attorneys                      | 741,449                       | 17,151,984   | 0.08967%   | 76,740   | 1,002,950                                    | 1,079,690                      | 10.35%   | 135.27%              |   |  |
| JOHNSON COUNTY ATTORNEY                            | County Attorneys                      | -                             | 230,506  | 0.00121%   | -  | 13,534                                       | 13,534                         | N/A  | N/A                  |   |  |
| KENTON COUNTY ATTORNEY                             | County Attorneys                      | 115,000                       | 1,021,997  | 0.00534%   | 11,903   | 59,727                                       | 71,630                         | 10.35%   | 51.94%               |   |  |
| KNOTT COUNTY ATTORNEY                              | County Attorneys                      | 281,869                       | 900,207  | 0.00471%   | 29,173   | 52,681                                       | 81,854                         | 10.35%   | 18.69%               |   |  |
| KNOX COUNTY ATTORNEY                               | County Attorneys                      | -                             | 5,454  | 0.00003%   | -  | 336  | 336                            | N/A  | N/A                  |   |  |
| LARUE COUNTY ATTORNEY                              | County Attorneys                      | 256,453                       | 1,041,769  | 0.00545%   | 26,543   | 60,958                                       | 87,501                         | 10.35%   | 23.77%               | 34.12%  |  |
| LAUREL COUNTY ATTORNEY                             | County Attorneys                      | 72,261                        | 353,526  | 0.00185%   | 7,479  | 20,692                                       | 28,171                         | 10.35%   | 28.64%               | 38.99%  |  |
| LAWRENCE COUNTY ATTORNEY                           | County Attorneys                      | -                             | 144  | 0.00000%   | -  | -  | -                              | N/A  | N/A                  | N/A   |  |
| LEE COUNTY ATTORNEY                                | County Attorneys                      | 312,678                       | 888,298  | 0.00464%   | 32,362   | 51,898                                       | 84,260                         | 10.35%   | 16.60%               | 26.95%  |  |
| LOGAN COUNTY ATTORNEY                              | County Attorneys                      | 230,550                       | 1,781,059  | 0.00931%   | 23,862   | 104,131                                      | 127,993                        | 10.35%   | 45.17%               | 55.52%  |  |
| MADISON COUNTY ATTORNEY                            | County Attorneys                      | 944,115                       | 6,472,384  | 0.03384%   | 97,716   | 378,497                                      | 476,213                        | 10.35%   | 40.09%               | 50.44%  |  |
| MAGOFFIN CO ATTORNEY                               | County Attorneys                      | 77,520                        | 195,563  | 0.00102%   | 8,023  | 11,409                                       | 19,432                         | 10.35%   | 14.72%               | 25.07%  |  |
| MCCRACKEN COUNTY ATTORNEY                          | County Attorneys                      | 111,033                       | 1,092,697  | 0.00571%   | 11,492   | 63,866                                       | 75,358                         | 10.35%   | 57.52%               | 67.87%  |  |
| MCCREARY COUNTY ATTORNEY                           | County Attorneys                      | 336,834                       | 1,920,823  | 0.01004%   | 34,862   | 112,296                                      | 147,158                        | 10.35%   | 33.34%               | 43.69%  |  |
| MEADE COUNTY ATTORNEY                              | County Attorneys                      | 193,193                       | 1,485,282  | 0.00777%   | 19,995   | 86,907                                       | 106,902                        | 10.35%   | 44.98%               |   |  |
| MENIFEE COUNTY ATTORNEY                            | County Attorneys                      | 105,186                       | 568,840  | 0.00297%   | 10,887   | 33,219                                       | 44,106                         | 10.35%   | 31.58%               |   |  |
| MERCER COUNTY ATTORNEY                             | County Attorneys                      | 67,783                        | 507,084  | 0.00265%   | 7,016  | 29,640                                       | 36,656                         | 10.35%   | 43.73%               |   |  |
| MONROE CO ATTORNEY                                 | County Attorneys                      | 129,168                       | 617,699  | 0.00323%   | 13,369   | 36,127                                       | 49,496                         | 10.35%   | 27.97%               |   |  |
| MONTGOMERY CO ATTORNEY                             | County Attorneys                      | 280,759                       | 1,684,951  | 0.00881%   | 29,059   | 98,539                                       | 127,598                        | 10.35%   | 35.10%               |   |  |
| MORGAN COUNTY ATTORNEY                             | County Attorneys                      | 92,503                        | 1,815,404  | 0.00949%   | 9,574  | 106,145                                      | 115,719                        | 10.35%   | 114.75%              |   |  |
| OLDHAM COUNTY ATTORNEY                             | County Attorneys                      | 425,395                       | 1,690,959  | 0.00884%   | 44,028   | 98,874                                       | 142,902                        | 10.35%   | 23.24%               |   |  |
| OWEN COUNTY ATTORNEY                               | County Attorneys                      | 153,193                       | 490,212  | 0.00256%   | 15,855   | 28,633                                       | 44,488                         | 10.35%   | 18.69%               |   |  |
| PENDLETON COUNTY ATTORNEY                          | County Attorneys                      | -                             | 155,600  | 0.00081%   | -  | 9,060  | 9,060                          | N/A  | N/A                  |   |  |
| POWELL COUNTY ATTORNEY                             | County Attorneys                      | -                             | 26,895   | 0.00014%   | -  | 1,566  | 1,566                          | N/A  | N/A                  |   |  |
| PULASKI COUNTY ATTORNEY                            | County Attorneys                      | 589,655                       | 1,602,159  | 0.00838%   | 61,029   | 93,729                                       | 154,758                        | 10.35%   | 15.90%               |   |  |
| ROCKCASTLE CO ATTORNEY                             | County Attorneys                      | 178,219                       | 774,276  | 0.00405%   | 18,446   | 45,299                                       | 63,745                         | 10.35%   | 25.42%               |   |  |
| ROWAN COUNTY ATTORNEY                              | County Attorneys                      | 280,274                       | 820,120  | 0.00429%   | 29,008   | 47,983                                       | 76,991                         | 10.35%   | 17.12%               |   |  |
| SHELBY COUNTY ATTORNEY                             | County Attorneys                      | 67,085                        | 400,120  | 0.00209%   | 6,943  | 23,376                                       | 30,319                         | 10.35%   | 34.85%               |   |  |
| SIMPSON COUNTY ATTORNEY                            | County Attorneys                      | 67,315                        | 521,989  | 0.00273%   | 6,967  | 30,535                                       | 37,502                         | 10.35%   | 45.36%               |   |  |
| SPENCER COUNTY ATTORNEY                            | County Attorneys                      | 353,031                       | 1,200,709  | 0.00628%   | 36,539   | 70,241                                       | 106,780                        | 10.35%   | 19.90%               |   |  |
|  | County Attorneys                      | 258,541                       | 933,350  | 0.00488%   | 26,759   | 54,582                                       | 81,341                         | 10.35%   | 21.11%               |   |  |
| TRIMBLE COUNTY ATTORNEY UNION COUNTY ATTORNEY      | County Attorneys                      | 293,780                       | 749,934  | 0.00392%   | 30,406   | 43,845                                       | 74,251                         | 10.35%<br>10.35%   | 14.92%               |   |  |
|  | County Attorneys                      | 46,000                        | 293,278  | 0.00153%   | 4,761  | 17,113                                       | 21,874                         | 10.35%   | 37.20%               | 47.55%  |  |

## Exhibit 1. Calculation of Employer Required Contributions under Proposed Legislation

|  |                                       |                               | Fixed Percentage of<br>the Total Amortization Cost          |   |                              | Required Contribution <sup>1</sup> |                                | Effective Employer Contribution Rate <sup>2</sup><br>Required Contribution / Payroll |                      |   |
|--|---------------------------------------|-------------------------------|---|---|------------------------------|------------------------------------|--------------------------------|--|----------------------|---|
| Agency Name <sup>3</sup>                               | Agency<br>Classification <sup>3</sup> | Projected Payroll<br>FY 20/21 | Accrued Liability<br>based on<br>June 30, 2019<br>Valuation | Fixed Allocation<br>of Amortization<br>Cost | Normal Cost<br>Contributions | Amortization<br>Cost               | Total Required<br>Contribution | Normal Cost<br>Contributions   | Amortization<br>Cost | Total Estimated<br>Required Contribution<br>as a<br>% of Expected Pay |
| (1)  | (2)                                   | (3)                           | (4)   | (5) = (4) / \$19,128M                       | (6) = (3) x 10.35%           | (7) = (5) x \$1,118M               | (8) = (6) + (7)                | (9) = (6) / (4)  | (10) = (7) / (4)     | (11) = (8) / (4)  |
| WAYNE COUNTY ATTORNEY                                  | County Attorneys                      | 110,319                       | 668,657   | 0.00350%                                    | 11,418                       | 39,147                             | 50,565                         | 10.35%   | 35.49%               | 45.84%  |
| WEBSTER COUNTY ATTORNEY                                | County Attorneys                      | 339,019                       | 1,413,256   | 0.00739%                                    | 35,088                       | 82,656                             | 117,744                        | 10.35%   | 24.38%               | 34.73%  |
| WHITLEY COUNTY ATTORNEY                                | County Attorneys                      | 285,233                       | 2,013,956   | 0.01053%                                    | 29,522                       | 117,777                            | 147,299                        | 10.35%   | 41.29%               | 5 51.64%  |
|  |                                       | 1,437,647,279                 | 19,127,580,191  | 100.00000%                                  | 148,796,493                  | 1,118,489,583                      | 1,267,286,076                  | 10.35%   | 77.80%               | 88.15%  |
| Agencies that have ceased participation in the System: |                                       |                               |   |   |                              |                                    |                                |  |                      |   |
| KENTUCKY BAR ASSOCIATION                               | Non-P1 State Agencies                 | -                             | 9,726,855   | N/A   | N/A                          | N/A                                | N/A                            | N/A  | N/A                  | N/A   |
| KENTUCKY ASSOCIATION OF CHILDREN'S ADVOCACY C          | Non-P1 State Agencies                 | -                             | 14,508  | N/A   | N/A                          | N/A                                | N/A                            | N/A  | N/A                  | N/A   |
| COMMONWEALTH CREDIT UNION                              | Non-P1 State Agencies                 | -                             | 46,950,704  | N/A   | N/A                          | N/A                                | N/A                            | N/A  | N/A                  | N/A   |
| KENTUCKY EMPLOYERS MUTUAL INSURANCE                    | Non-P1 State Agencies                 | -                             | 15,220,243  | N/A   | N/A                          | N/A                                | N/A                            | N/A  | N/A                  | N/A   |
|  |                                       | 1,437,647,279                 | 19,199,492,501  | 100.00000%                                  | 148,796,493                  | 1,118,489,583                      | 1,267,286,076                  | 10.35%   | 77.80%               | 88.15%  |

### Summary of Above Information by Agency Classification

|                          |                               | Fixed Perce<br>the Total Amor                               |   | Required Contribution <sup>1</sup> |                      |                                |  |
|--------------------------|-------------------------------|---|---|------------------------------------|----------------------|--------------------------------|--|
| Agency<br>Classification | Projected Payroll<br>FY 20/21 | Accrued Liability<br>based on<br>June 30, 2019<br>Valuation | Fixed Allocation<br>of Amortization<br>Cost | Normal Cost<br>Contributions       | Amortization<br>Cost | Total Required<br>Contribution |  |
| Health Departments       | 93,217,225                    | 1,281,433,525   | 6.69938%                                    | 9,647,985                          | 74,931,864           | 84,579,849                     |  |
| Non-P1 State Assoc/Corp. | 27,552,699                    | 221,740,635   | 1.15927%                                    | 2,851,705                          | 12,966,313           | 15,818,018                     |  |
| Non-P1 State Agencies    | 10,072,855                    | 37,876,257  | 0.19803%                                    | 1,042,542                          | 2,214,947            | 3,257,489                      |  |
| Reg Mental Hlth Units    | 89,710,133                    | 1,154,821,405   | 6.03745%                                    | 9,285,000                          | 67,528,250           | 76,813,250                     |  |
| Universities             | 103,975,361                   | 1,091,633,491   | 5.70712%                                    | 10,761,451                         | 63,833,542           | 74,594,993                     |  |
| Judicial Branch          | 55,613,861                    | 448,003,954   | 2.34219%                                    | 5,756,035                          | 26,197,152           | 31,953,187                     |  |
| Legislative Branch       | 20,809,165                    | 343,338,931   | 1.79500%                                    | 2,153,748                          | 20,076,888           | 22,230,636                     |  |
| Master Commissioner      | 3,116,322                     | 21,262,534  | 0.11115%                                    | 322,538                            | 1,243,206            | 1,565,744                      |  |
| County Attorneys         | 14,398,238                    | 93,467,865  | 0.48866%                                    | 1,490,216                          | 5,465,610            | 6,955,826                      |  |
| <b>Executive Branch</b>  | 1,019,181,420                 | 14,434,001,594  | 75.46175%                                   | 105,485,273                        | 844,031,811          | 949,517,084                    |  |

### Notes and Assumptions

<sup>1</sup> Actual normal cost contributions will be based on an employer's actual salary for the fiscal year 2020/2021 multiplied by 10.35%.

<sup>2</sup> Required contribution as a percentage of pay shown for illustrative purposes only. Actual required contributions will be equal to 10.35% of an employer's actual payroll for fiscal year 2020/2021 plus the amortization cost shown in column (7). <sup>3</sup>Agency names and classification information has been provided to GRS by KRS. We have reviewed this data for consistency but did not audit the data. GRS is not responsible for the accuracy or completeness of the information provided to us by KRS.

|                              | Effective Employer Contribution Rate <sup>2</sup><br>Required Contribution / Payroll |   |  |  |  |  |  |  |  |  |
|------------------------------|--|---|--|--|--|--|--|--|--|--|
| Normal Cost<br>Contributions | Amortization<br>Cost   | Total Estimated<br>Required Contribution<br>as a<br>% of Expected Pay |  |  |  |  |  |  |  |  |
| 10.35%                       | 80.38%   | 90.73%  |  |  |  |  |  |  |  |  |
| 10.35%                       | 47.06%   | 57.41%  |  |  |  |  |  |  |  |  |
| 10.35%                       | 21.99%   | 32.34%  |  |  |  |  |  |  |  |  |
| 10.35%                       | 75.27%   | 85.62%  |  |  |  |  |  |  |  |  |
| 10.35%                       | 61.39%   | 71.74%  |  |  |  |  |  |  |  |  |
| 10.35%                       | 47.11%   | 57.46%  |  |  |  |  |  |  |  |  |
| 10.35%                       | 96.48%   | 106.83%   |  |  |  |  |  |  |  |  |
| 10.35%                       | 39.89%   | 50.24%  |  |  |  |  |  |  |  |  |
| 10.35%                       | 37.96%   | 48.31%  |  |  |  |  |  |  |  |  |
| 10.35%                       | 82.81%   | 93.16%  |  |  |  |  |  |  |  |  |

|                            |                                       |                               | F                              | Required Contribution          |   |                                | Employer Contribution<br>red Contribution / Pay |   |
|----------------------------|---------------------------------------|-------------------------------|--------------------------------|--------------------------------|---|--------------------------------|---|---|
| Agency Name <sup>1</sup>   | Agency<br>Classification <sup>1</sup> | Projected Payroll<br>FY 20/21 | Current Funding<br>Arrangement | Proposed<br>Legislation        | Increase/(Decrease)<br>due to Legislation | Current Funding<br>Arrangement | Proposed<br>Legislation                         | Increase/(Decrease)<br>due to Legislation |
| (1)                        | (2)                                   | (3)                           | (4) = (3) x 93.01%             | (5) = Exhibit 1,<br>Column (8) | (6) = (5) - (4)                           | (7) = (4) / (3)                | (8) = Exhibit 1 <i>,</i><br>Column (11)         | (9) = (8) - (7)                           |
| EXECUTIVE BRANCH AGENCIES  | EXECUTIVE BRANCH                      | 1,019,181,420                 | 947,940,636                    | 949,517,084                    | 1,576,448                                 | 93.01%                         | 93.16%  | 0.15%                                     |
| LEX FAYETTE CO HLTH DEPT   | Health Departments                    | 6,279,010                     | 5,840,107                      | 5,857,118                      | 17,011                                    | 93.01%                         | 93.28%  | 0.27%                                     |
| LAKE CUMBERLAND DISTRICT   | Health Departments                    | 5,547,445                     | 5,159,679                      | 4,879,116                      | (280,563)                                 | 93.01%                         | 87.95%  |   |
| BARREN RVR DIST HLTH DEPT  | Health Departments                    | 5,032,523                     | 4,680,750                      | 4,547,205                      | (133,545)                                 | 93.01%                         | 90.36%  |   |
| GREEN RVR DIST HLTH DEPT   | Health Departments                    | 6,319,042                     | 5,877,341                      | 5,481,869                      | (395,472)                                 | 93.01%                         | 86.75%  |   |
| NORTHERN KY DIST HLTH DEP  | Health Departments                    | 6,243,649                     | 5,807,218                      | 3,815,235                      | (1,991,983)                               | 93.01%                         | 61.11%  |   |
| LINCOLN TRL DIST HLTH DEP  | Health Departments                    | 3,473,278                     | 3,230,496                      | 4,286,613                      | 1,056,117                                 | 93.01%                         | 123.42%   |   |
| KY RIVER DIST HEALTH DEPT  | Health Departments                    | 2,808,126                     | 2,611,838                      | 4,418,427                      | 1,806,589                                 | 93.01%                         | 157.34%   |   |
| MADISON CO HEALTH DEP      | Health Departments                    | 3,681,668                     | 3,424,319                      | 3,513,271                      | 88,952                                    | 93.01%                         | 95.43%  |   |
| CUMBERLAND VLY DIST HEALT  | Health Departments                    | 2,393,958                     | 2,226,620                      | 5,507,584                      | 3,280,964                                 | 93.01%                         | 230.06%   |   |
| WEDCO DIST HEALTH DEPT     | Health Departments                    | 2,630,208                     | 2,446,356                      | 1,919,650                      | (526,706)                                 | 93.01%                         | 72.98%  |   |
| FRANKLIN CO HEALTH DEPT    | Health Departments                    | 2,420,588                     | 2,251,389                      | 1,577,283                      | (674,106)                                 | 93.01%                         | 65.16%  |   |
| WHITLEY CO HEALTH DEPT     | Health Departments                    | 1,836,382                     | 1,708,019                      | 1,879,433                      | 171,414                                   | 93.01%                         | 102.34%   |   |
| PIKE CO HEALTH DEPT        | Health Departments                    | 1,816,056                     | 1,689,114                      | 1,659,559                      | (29,555)                                  | 93.01%                         | 91.38%  |   |
| THREE RIVERS DIST HLTH     | Health Departments                    | 1,405,324                     | 1,307,092                      | 1,481,711                      | 174,619                                   | 93.01%                         | 105.44%   |   |
| KNOX CO HEALTH DEPT        | Health Departments                    | 1,871,943                     | 1,741,094                      | 1,835,689                      | 94,595                                    | 93.01%                         | 98.06%  |   |
| PURCHASE DIST HLTH DEPT    | Health Departments                    | 1,962,251                     | 1,825,090                      | 2,824,721                      | 999,631                                   | 93.01%                         | 143.95%   |   |
| CLARK CO HEALTH DEPT       | Health Departments                    | 1,731,244                     | 1,610,230                      | 1,222,735                      | (387,495)                                 | 93.01%                         | 70.63%  |   |
| GATEWAY DIST HEALTH DEPT   | Health Departments                    | 2,071,219                     | 1,926,441                      | 1,726,233                      | (200,208)                                 | 93.01%                         | 83.34%  |   |
| N CENTRAL DIST HLTH DEPT   | Health Departments                    | 1,534,303                     | 1,427,055                      | 1,419,673                      | (7,382)                                   | 93.01%                         | 92.53%  |   |
| BREATHITT CO HEALTH DEPT   | Health Departments                    | 1,335,524                     | 1,242,171                      | 1,223,833                      | (18,338)                                  | 93.01%                         | 91.64%  |   |
| PENNYRILE DIST HLTH DEPT   | Health Departments                    | 1,606,165                     | 1,493,894                      | 1,121,987                      | (371,907)                                 | 93.01%                         | 69.86%  | -23.15%                                   |
| MARSHALL CO HEALTH DEPT    | Health Departments                    | 1,436,565                     | 1,336,149                      | 1,154,094                      | (182,055)                                 | 93.01%                         | 80.34%  |   |
| CHRISTIAN CO HEALTH DEPT   | Health Departments                    | 1,287,747                     | 1,197,733                      | 914,547                        | (283,186)                                 | 93.01%                         | 71.02%  |   |
| MONTGOMERY CO HEALTH DEPT  | Health Departments                    | 1,435,257                     | 1,334,933                      | 843,690                        | (491,243)                                 | 93.01%                         | 58.78%  |   |
| HOPKINS CO HEALTH DEPT     | Health Departments                    | 1,446,874                     | 1,345,738                      | 1,191,512                      | (154,226)                                 | 93.01%                         | 82.35%  |   |
| JOHNSON CO HEALTH DEPT     | Health Departments                    | 1,214,044                     | 1,129,182                      | 1,031,071                      | (19,111)                                  | 93.01%                         | 84.93%  |   |
| FLOYD CO HEALTH CENTER     | Health Departments                    | 940,121                       | 874,407                        | 845,796                        | (28,611)                                  | 93.01%                         | 89.97%  |   |
| ASHLAND BOYD CO HEALTH DP  | Health Departments                    | 1,077,672                     | 1,002,343                      | 1,151,287                      | 148,944                                   | 93.01%                         | 106.83%   |   |
| LAUREL CO HEALTH DEPT      | Health Departments                    | 1,137,856                     | 1,058,320                      | 964,241                        | (94,079)                                  | 93.01%                         | 84.74%  |   |
| BULLITT CO HEALTH DEPT     | Health Departments                    | 1,194,114                     | 1,110,645                      | 931,923                        | (178,722)                                 | 93.01%                         | 78.04%  |   |
| BELL CO HEALTH DEPT        | Health Departments                    | 852,505                       | 792,915                        | 715,819                        | (170,722)                                 | 93.01%                         | 83.97%  |   |
| GREENUP CO HLTH DEPT       | Health Departments                    | 921,572                       | 857,154                        | 768,378                        | (88,776)                                  | 93.01%                         | 83.38%  |   |
| JESSAMINE CO HEALTH DEPT   | Health Departments                    | 952,499                       | 885,919                        | 606,490                        | (279,429)                                 | 93.01%                         | 63.67%  |   |
| GRAVES CO HEALTH CENTER    | Health Departments                    | 1,080,652                     | 1,005,114                      | 469,204                        | (535,910)                                 | 93.01%                         | 43.42%  |   |
| HARLAN CO HEALTH DEPT      | Health Departments                    | 934,178                       | 868,879                        | 518,805                        | (350,074)                                 | 93.01%                         | 55.54%  |   |
| OLDHAM CO HEALTH DEPT      | Health Departments                    | 987,904                       | 918,850                        | 715,068                        | (203,782)                                 | 93.01%                         | 72.38%  |   |
| ALLEN CO HEALTH DEPT       | Health Departments                    | 840,564                       | 781,809                        | 549,605                        | (232,204)                                 | 93.01%                         | 65.39%  |   |
| BUFFALO TRACE HEALTH DEPT  | Health Departments                    | 779,156                       | 724,693                        | 711,471                        | (13,222)                                  | 93.01%                         | 91.31%  |   |
| MUHLENBERG CO.HEALTH DEPT  | Health Departments                    | 661,770                       | 615,512                        | 529,646                        | (85,866)                                  | 93.01%                         | 80.03%  |   |
| MERCER CO HEALTH DEPT      | Health Departments                    | 696,882                       | 648,170                        | 663,137                        | 14,967                                    | 93.01%                         | 95.16%  |   |
| LAWRENCE CO HEALTH DEPT    | Health Departments                    | 690,884                       | 642,591                        | 297,776                        | (344,815)                                 | 93.01%                         | 43.10%  |   |
| WOODFORD CO HEALTH DEPT    | Health Departments                    | 512,541                       | 476,714                        | 371,929                        | (104,785)                                 | 93.01%                         | 72.57%  |   |
| CALLOWAY CO HEALTH DEPT    | Health Departments                    | 565,019                       | 525,524                        | 300,408                        | (225,116)                                 | 93.01%                         | 53.17%  |   |
| MAGOFFIN CO HEALTH DEPT    | Health Departments                    | 544,522                       | 506,460                        | 434,519                        | (71,941)                                  | 93.01%                         | 79.80%  |   |
| MARTIN CO HEALTH DEPT      | Health Departments                    | 453,796                       | 422,076                        | 356,119                        | (65,957)                                  | 93.01%                         | 75.86%  |   |
| BOYLE CO HEALTH DEPT       | Health Departments                    | 551,379                       | 512,838                        | 428,183                        | (84,655)                                  | 93.01%                         | 77.66%  |   |
| BOURBON CO HEALTH CENTER   | Health Departments                    | 522,078                       | 485,585                        | 672,560                        | 186,975                                   | 93.01%                         | 128.82%   |   |
| ANDERSON CO HEALTH DEPT    | Health Departments                    | 424,133                       | 394,486                        | 340,745                        | (53,741)                                  | 93.01%                         | 80.34%  |   |
| LEWIS CO HEALTH DEPT       | Health Departments                    | 548,857                       | 510,492                        | 235,765                        | (274,727)                                 | 93.01%                         | 42.96%  |   |
| ESTILL CO HEALTH DEPT      | Health Departments                    |                               | 447,680                        | 376,080                        |   | 93.01%                         | 78.13%  |   |
| LINCOLN CO HEALTH DEPT     |                                       | 481,325                       |                                |                                | (71,600)                                  |                                |   |   |
|                            | Health Departments                    | 434,068                       | 403,727                        | 331,259                        | (72,468)                                  | 93.01%                         | 76.32%  |   |
| BRECKINRIDGE CO HEALTH BD  | Health Departments                    | 544,432                       | 506,376                        | 506,877                        | 501                                       | 93.01%                         | 93.10%  |   |
| GRAYSON COUNTY HEALTH DEPT | Health Departments                    | 451,991                       | 420,397                        | 315,666                        | (104,731)                                 | 93.01%                         | 69.84%  |   |
| LITTLE SANDY DIST HEALTH   | Health Departments                    | -                             | -                              | 423,236                        | 423,236                                   | N/A                            | N/A   | •   |
| GARRARD COUNTY HEALTH DPT  | Health Departments                    | 325,193                       | 302,462                        | 263,283                        | (39,179)                                  | 93.01%                         | 80.96%  |   |
| TODD CO HEALTH DEPT        | Health Departments                    | 586,208                       | 545,232                        | 334,815                        | (210,417)                                 | 93.01%                         | 57.12%  | -35.89%                                   |

|   |  |                               |                                | Required Contribution                  |   |                                | Employer Contributio<br>red Contribution / Pay |   |
|---|--|-------------------------------|--------------------------------|--|---|--------------------------------|--|---|
| Agency Name <sup>1</sup>                            | Agency<br>Classification <sup>1</sup>          | Projected Payroll<br>FY 20/21 | Current Funding<br>Arrangement | Proposed<br>Legislation                | Increase/(Decrease)<br>due to Legislation | Current Funding<br>Arrangement | Proposed<br>Legislation                        | Increase/(Decrease)<br>due to Legislation |
| (1)   | (2)  | (3)                           | (4) = (3) x 93.01%             | (5) = Exhibit 1 <i>,</i><br>Column (8) | (6) = (5) - (4)                           | (7) = (4) / (3)                | (8) = Exhibit 1,<br>Column (11)                | (9) = (8) - (7)                           |
| FLEMING CO HEALTH DEP                               | Health Departments                             | 348,816                       | 324,434                        | 292,572                                | (31,862)                                  | 93.01%                         | 83.88%   | -9.13%                                    |
| MONROE CO HEALTH DEPT                               | Health Departments                             | 379,290                       | 352,778                        | 222,689                                | (130,089)                                 | 93.01%                         | 58.71%   | -34.30%                                   |
| BRACKEN CO HEALTH DEPT                              | Health Departments                             | 348,044                       | 323,716                        | 176,953                                | (146,763)                                 | 93.01%                         | 50.84%   | -42.17%                                   |
| POWELL CO HEALTH DEPT                               | Health Departments                             | 298,757                       | 277,874                        | 276,541                                | (1,333)                                   | 93.01%                         | 92.56%   |   |
| CARTER CO HEALTH DEPT                               | Health Departments                             | 328,054                       | 305,123                        | 147,145                                | (157,978)                                 | 93.01%                         | 44.85%   |   |
| KY HIGHER ED STUD LN CORP                           | Non-P1 State Assoc/Corp.                       | 11,081,890                    | 10,307,266                     | 5,935,901                              | (4,371,365)                               | 93.01%                         | 53.56%   |   |
| KENTUCKY HOUSING CORP                               | Non-P1 State Assoc/Corp.                       | 9,887,127                     | 9,196,017                      | 6,770,341                              | (2,425,676)                               | 93.01%                         | 68.48%   |   |
| CSG HEADQUARTERS                                    | Non-P1 State Assoc/Corp.                       | 3,572,893                     | 3,323,148                      | 1,496,896                              | (1,826,252)                               | 93.01%                         | 41.90%   |   |
| KET FOUNDATION                                      | Non-P1 State Assoc/Corp.                       | 1,718,678                     | 1,598,542                      | 1,058,917                              | (539,625)                                 | 93.01%                         | 61.61%   |   |
|   | Non-P1 State Assoc/Corp.                       | 1,086,231                     | 1,010,303                      | 451,998                                | (558,305)                                 | 93.01%                         | 41.61%   |   |
|   | Non-P1 State Assoc/Corp.                       | 205,880                       | 191,489                        | 103,965                                | (87,524)                                  | 93.01%                         | 50.50%   |   |
| O A S I S<br>KDVA                                   | Non-P1 State Agencies                          | 640,209                       | 595,458                        | 201,040                                | (394,418)                                 | 93.01%<br>93.01%               | 31.40%<br>26.67%                               |   |
| B.R.A.S.S.  | Non-P1 State Agencies                          | 871,207<br>638,864            | 810,310<br>594,207             | 232,330<br>190,834                     | (577,980)                                 | 93.01%                         | 29.87%   | -63.14%                                   |
| BLUEGRASS RAPE CRISIS CTR                           | Non-P1 State Agencies<br>Non-P1 State Agencies | 569,641                       | 529,823                        | 219,461                                | (403,373)<br>(310,362)                    | 93.01%                         | 38.53%   |   |
| SAFE HARBOR   | Non-P1 State Agencies                          | 651,225                       | 605,704                        | 144,130                                | (461,574)                                 | 93.01%                         | 22.13%   |   |
| SANCTUARY INC                                       | Non-P1 State Agencies                          | 634,076                       | 589,754                        | 212,373                                | (377,381)                                 | 93.01%                         | 33.49%   |   |
| LOTUS   | Non-P1 State Agencies                          | 820,631                       | 763,269                        | 147,794                                | (615,475)                                 | 93.01%                         | 18.01%   |   |
| BETHANY HOUSE ABUSE SHELT                           | Non-P1 State Agencies                          | 462,201                       | 429,893                        | 145,818                                | (284,075)                                 | 93.01%                         | 31.55%   |   |
| SPRINGHAVEN INC                                     | Non-P1 State Agencies                          | 346,635                       | 322,405                        | 125,244                                | (197,161)                                 | 93.01%                         | 36.13%   |   |
| KASAP   | Non-P1 State Agencies                          | 401,601                       | 373,529                        | 96,708                                 | (276,821)                                 | 93.01%                         | 24.08%   |   |
| SILVERLEALF   | Non-P1 State Agencies                          | 411,241                       | 382,495                        | 160,564                                | (221,931)                                 | 93.01%                         | 39.04%   |   |
| WOMEN AWARE   | Non-P1 State Agencies                          | 213,308                       | 198,398                        | 79,120                                 | (119,278)                                 | 93.01%                         | 37.09%   |   |
| D.O.V.E.S.  | Non-P1 State Agencies                          | 433,267                       | 402,982                        | 122,019                                | (280,963)                                 | 93.01%                         | 28.16%   | -64.85%                                   |
| NURSING HOME OMBUDSMAN                              | Non-P1 State Agencies                          | 235,384                       | 218,931                        | 75,813                                 | (143,118)                                 | 93.01%                         | 32.21%   | -60.80%                                   |
| HOPE HARBOR INC                                     | Non-P1 State Agencies                          | 349,924                       | 325,464                        | 84,424                                 | (241,040)                                 | 93.01%                         | 24.13%   | -68.88%                                   |
| KY OFFICE OF BAR ADMISSIO                           | Non-P1 State Agencies                          | 204,270                       | 189,992                        | 170,460                                | (19,532)                                  | 93.01%                         | 83.45%   | -9.56%                                    |
| CHILD WATCH ADVOCACY CTR                            | Non-P1 State Agencies                          | 227,648                       | 211,735                        | 67,966                                 | (143,769)                                 | 93.01%                         | 29.86%   |   |
| FRANKLIN CO COUNCIL AGING                           | Non-P1 State Agencies                          | 110,250                       | 102,544                        | 137,017                                | 34,473                                    | 93.01%                         | 124.28%  |   |
| JUDI'S PLACE FOR KIDS, INC.                         | Non-P1 State Agencies                          | 363,068                       | 337,690                        | 82,989                                 | (254,701)                                 | 93.01%                         | 22.86%   |   |
| CUMBERLAND V C A CENTER                             | Non-P1 State Agencies                          | 300,383                       | 279,386                        | 79,185                                 | (200,201)                                 | 93.01%                         | 26.36%   |   |
| KY ASSOC OF REGIONAL PROG                           | Non-P1 State Agencies                          | 118,750                       | 110,449                        | 118,548                                | 8,099                                     | 93.01%                         | 99.83%   |   |
| BARREN RIVER CHILD ADVOCA                           | Non-P1 State Agencies                          | 215,348                       | 200,295                        | 46,001                                 | (154,294)                                 | 93.01%                         | 21.36%   |   |
| CHILD ADV CTR OF GRN RVR                            | Non-P1 State Agencies                          | 156,406                       | 145,473                        | 49,631                                 | (95,842)                                  | 93.01%                         | 31.73%   |   |
| MUN ELEC POW ASSOC OF KY                            | Non-P1 State Agencies                          | 135,616                       | 126,136                        | 116,154                                | (9,982)                                   | 93.01%                         | 85.65%   |   |
|   | Non-P1 State Agencies                          | 127,195                       | 118,304                        | 30,166                                 | (88,138)                                  | 93.01%                         | 23.72%   |   |
| PENNYRILE CHILD ADV CTR                             | Non-P1 State Agencies                          | 125,509                       | 116,736                        | 39,946                                 | (76,790)                                  | 93.01%                         | 31.83%   |   |
| LAKE CUMB CHILD ADV CTR<br>BUFFALO TR CHILD ADV INC | Non-P1 State Agencies<br>Non-P1 State Agencies | 178,427<br>96,571             | 165,955<br>89,821              | 50,344<br>24,759                       | (115,611)                                 | 93.01%<br>93.01%               | 28.22%<br>25.64%                               |   |
| GATEWAY CHILD ADVOCACY                              | Non-P1 State Agencies                          | 34,000                        | 31,623                         | 6,651                                  | (65,062)<br>(24,972)                      | 93.01%                         | 19.56%   |   |
| NEW VISTA OF THE BLUEGRASS, INC.                    | Reg Mental Hith Units                          | 36,821,842                    | 34,247,995                     | 25,786,138                             | (8,461,857)                               | 93.01%                         | 70.03%   |   |
| CUMBERLAND RIVER MHMR                               | Reg Mental Hith Units                          | 11,237,059                    | 10,451,589                     | 6,909,164                              | (3,542,425)                               | 93.01%                         | 61.49%   |   |
| LIFESKILLS INC                                      | Reg Mental Hith Units                          | 8,097,314                     | 7,531,312                      | 5,263,488                              | (2,267,824)                               | 93.01%                         | 65.00%   |   |
| COMMUNICARE INC                                     | Reg Mental Hith Units                          | 5,611,288                     | 5,219,059                      | 4,474,566                              | (744,493)                                 | 93.01%                         | 79.74%   |   |
| ADANTA/BEHAVIORAL HLTH SR                           | Reg Mental Hith Units                          | 5,028,478                     | 4,676,987                      | 5,726,121                              | 1,049,134                                 | 93.01%                         | 113.87%  |   |
| PENNYROYAL REG MHMR BD                              | Reg Mental Hith Units                          | 6,603,427                     | 6,141,847                      | 4,667,627                              | (1,474,220)                               | 93.01%                         | 70.68%   |   |
| MOUNTAIN COMP CARE CENTER                           | Reg Mental Hlth Units                          | 5,284,559                     | 4,915,168                      | 3,232,222                              | (1,682,946)                               | 93.01%                         | 61.16%   |   |
| GREEN RVR REG MHMR BD                               | Reg Mental Hith Units                          | 2,625,640                     | 2,442,108                      | 2,177,996                              | (264,112)                                 | 93.01%                         | 82.95%   |   |
| NORTHERN KY REG MHMR BD                             | Reg Mental Hlth Units                          | 148,611                       | 138,223                        | 3,366,711                              | 3,228,488                                 | 93.01%                         | 2265.45%                                       |   |
| WESTERN KY REG MHMR ADV                             | Reg Mental HIth Units                          | 3,595,880                     | 3,344,528                      | 2,449,545                              | (894,983)                                 | 93.01%                         | 68.12%   |   |
| COMPREHEND INC REG MHMR B                           | Reg Mental HIth Units                          | 4,656,035                     | 4,330,578                      | 2,181,445                              | (2,149,133)                               | 93.01%                         | 46.85%   | -46.16%                                   |
| SEVEN CO SERVICES INC                               | Reg Mental HIth Units                          | -                             | -                              | 9,017,710                              | 9,017,710                                 | N/A                            | N/A  | N/A                                       |
| KY RIVER COMM CARE INC                              | Reg Mental HIth Units                          | -                             | -                              | 1,560,517                              | 1,560,517                                 | N/A                            | N/A  | N/A                                       |
| NORTHERN KY UNIVERSITY                              | Universities                                   | 33,051,008                    | 30,740,743                     | 16,093,266                             | (14,647,477)                              | 93.01%                         | 48.69%   |   |
| EASTERN KY UNIV                                     | Universities                                   | 14,964,357                    | 13,918,348                     | 15,527,358                             | 1,609,010                                 | 93.01%                         | 103.76%  |   |
| кстсѕ   | Universities                                   | 19,171,232                    | 17,831,163                     | 11,127,316                             | (6,703,847)                               | 93.01%                         | 58.04%   | -34.97%                                   |

|  |  |                               |                                | Required Contribution                  |   |                                | Employer Contribution<br>red Contribution / Pay |   |
|--|--|-------------------------------|--------------------------------|--|---|--------------------------------|---|---|
| Agency Name <sup>1</sup>                           | Agency<br>Classification <sup>1</sup>      | Projected Payroll<br>FY 20/21 | Current Funding<br>Arrangement | Proposed<br>Legislation                | Increase/(Decrease)<br>due to Legislation | Current Funding<br>Arrangement | Proposed<br>Legislation                         | Increase/(Decrease)<br>due to Legislation |
| (1)  | (2)  | (3)                           | (4) = (3) x 93.01%             | (5) = Exhibit 1 <i>,</i><br>Column (8) | (6) = (5) - (4)                           | (7) = (4) / (3)                | (8) = Exhibit 1,<br>Column (11)                 | (9) = (8) - (7)                           |
| WESTERN KENTUCKY UNIV                              | Universities                               | 15,854,956                    | 14,746,695                     | 12,213,287                             | (2,533,408)                               | 93.01%                         | 77.03%  | -15.98%                                   |
| MURRAY STATE UNIV                                  | Universities                               | 11,391,807                    | 10,595,520                     | 8,959,377                              | (1,636,143)                               | 93.01%                         | 78.65%  | -14.36%                                   |
| MOREHEAD STATE UNIVERSITY                          | Universities                               | 4,766,363                     | 4,433,194                      | 7,584,319                              | 3,151,125                                 | 93.01%                         | 159.12%   | 66.11%                                    |
| KENTUCKY STATE UNIVERSITY                          | Universities                               | 4,775,638                     | 4,441,821                      | 3,090,070                              | (1,351,751)                               | 93.01%                         | 64.70%  | -28.31%                                   |
| JUDL ADM OFF OF THE COURT                          | Judicial Branch                            | 55,434,113                    | 51,559,269                     | 31,829,109                             | (19,730,160)                              | 93.01%                         | 57.42%  | -35.59%                                   |
| JUDL JUDICIAL RET SYSTEM                           | Judicial Branch                            | 179,748                       | 167,184                        | 124,078                                | (43,106)                                  | 93.01%                         | 69.03%  | -23.98%                                   |
| LEGS GENERAL ASSEMBLY                              | Legislative Branch                         | 1,384,611                     | 1,287,827                      | 1,115,386                              | (172,441)                                 | 93.01%                         | 80.56%  | -12.45%                                   |
| LEGS LEGISLATIVE RES COMM                          | Legislative Branch                         | 19,424,554                    | 18,066,778                     | 21,115,250                             | 3,048,472                                 | 93.01%                         | 108.70%   | 15.69%                                    |
|  | Master Commissioner                        | -                             | -                              | 1,230                                  | 1,230                                     | N/A                            | N/A   | N/A                                       |
| HENRY/ TRIMBLE MASTER COM                          | Master Commissioner                        | 69,167                        | 64,332                         | 7,495                                  | (56,837)                                  | 93.01%                         | 10.84%  | -82.17%                                   |
| LOGAN CO MASTER COM                                | Master Commissioner                        | 51,250                        | 47,668                         | 7,765                                  | (39,903)                                  | 93.01%                         | 15.15%  | -77.86%                                   |
| MASTER COMM BARREN CO<br>MASTER COMM BATH CO       | Master Commissioner<br>Master Commissioner | 28,392                        | 26,407                         | 21,059<br>559                          | (5,348)<br>559                            | 93.01%<br>N/A                  | 74.17%<br>N/A                                   | -18.84%<br>N/A                            |
| MASTER COMM BATH CO                                | Master Commissioner                        | -<br>151,623                  | - 141,025                      | 52,827                                 | (88,198)                                  | 93.01%                         | 34.84%  | -58.17%                                   |
| MASTER COMM BOONE CO                               | Master Commissioner                        | 151,025                       | 141,025                        | 27,627                                 | 27,627                                    | N/A                            | N/A   | N/A                                       |
| MASTER COMM COURSEN CO                             | Master Commissioner                        | _                             | -                              | 9,619                                  | 9,619                                     | N/A                            | N/A   | N/A                                       |
| MASTER COMM CALLOWAT CO                            | Master Commissioner                        | 111,547                       | 103,750                        | 67,917                                 | (35,833)                                  | 93.01%                         | 60.89%  | -32.12%                                   |
| MASTER COMM CHRISTIAN CO                           | Master Commissioner                        | 38,016                        | 35,359                         | 27,647                                 | (7,712)                                   | 93.01%                         | 72.72%  | -20.29%                                   |
| MASTER COMM CLARK CO                               | Master Commissioner                        | 21,834                        | 20,308                         | 12,774                                 | (7,534)                                   | 93.01%                         | 58.51%  | -34.50%                                   |
| MASTER COMM CLINTON/CUMBE                          | Master Commissioner                        | 38,800                        | 36,088                         | 11,286                                 | (24,802)                                  | 93.01%                         | 29.09%  | -63.92%                                   |
| MASTER COMM DAVIESS CO                             | Master Commissioner                        | 108,524                       | 100,938                        | 93,329                                 | (7,609)                                   | 93.01%                         | 86.00%  | -7.01%                                    |
| MASTER COMM FAYETTE CO                             | Master Commissioner                        | 212,741                       | 197,870                        | 90,918                                 | (106,952)                                 | 93.01%                         | 42.74%  | -50.27%                                   |
| MASTER COMM FLOYD CO                               | Master Commissioner                        | -                             | -                              | 3,803                                  | 3,803                                     | N/A                            | N/A   | N/A                                       |
| MASTER COMM GARRARD CO                             | Master Commissioner                        | 19,394                        | 18,038                         | 4,244                                  | (13,794)                                  | 93.01%                         | 21.88%  | -71.13%                                   |
| MASTER COMM GRANT CO                               | Master Commissioner                        | 88,906                        | 82,691                         | 18,374                                 | (64,317)                                  | 93.01%                         | 20.67%  | -72.34%                                   |
| MASTER COMM GRAVES CO                              | Master Commissioner                        | -                             | -                              | 112                                    | 112                                       | N/A                            | N/A   | N/A                                       |
| MASTER COMM GRAYSON CO                             | Master Commissioner                        | 44,085                        | 41,003                         | 8,590                                  | (32,413)                                  | 93.01%                         | 19.49%  | -73.52%                                   |
| MASTER COMM HARDIN CO                              | Master Commissioner                        | 169,324                       | 157,488                        | 75,351                                 | (82,137)                                  | 93.01%                         | 44.50%  | -48.51%                                   |
| MASTER COMM HENDERSON CO                           | Master Commissioner                        | -                             | -                              | 34,338                                 | 34,338                                    | N/A                            | N/A   | N/A                                       |
| MASTER COMM HOPKINS CO                             | Master Commissioner                        | 89,703                        | 83,433                         | 29,864                                 | (53,569)                                  | 93.01%                         | 33.29%  | -59.72%                                   |
| MASTER COMM JEFF CIRCUIT                           | Master Commissioner                        | 424,810                       | 395,116                        | 409,155                                | 14,039                                    | 93.01%                         | 96.31%  | 3.30%                                     |
| MASTER COMM KENTON CO                              | Master Commissioner                        | 197,537                       | 183,729                        | 62,836                                 | (120,893)                                 | 93.01%                         | 31.81%  | -61.20%                                   |
| MASTER COMM LAUREL CO                              | Master Commissioner                        | 68,000                        | 63,247                         | 35,224                                 | (28,023)                                  | 93.01%                         | 51.80%  | -41.21%                                   |
| MASTER COMM MADISON CO                             | Master Commissioner                        | 104,831                       | 97,503                         | 56,932                                 | (40,571)                                  | 93.01%                         | 54.31%  | -38.70%                                   |
| MASTER COMM MASON CO                               | Master Commissioner                        | -                             | -                              | 895                                    | 895                                       | N/A                            | N/A   | N/A                                       |
| MASTER COMM MCCRACKEN CO                           | Master Commissioner                        | 113,077                       | 105,173                        | 61,364                                 | (43,809)                                  | 93.01%                         | 54.27%  | -38.74%                                   |
| MASTER COMM MCCREARY CO                            | Master Commissioner                        | -                             | -                              | 1,007                                  | 1,007                                     | N/A                            | N/A   | N/A                                       |
|  | Master Commissioner                        | 142,726                       | 132,749                        | 32,780                                 | (99,969)                                  | 93.01%                         | 22.97%  | -70.04%                                   |
| MASTER COMM MUHLENBERG CO<br>MASTER COMM NELSON CO | Master Commissioner<br>Master Commissioner | 75,244                        | 69,984<br>83,353               | 10,808<br>27,395                       | (59,176)                                  | 93.01%<br>93.01%               | 14.36%<br>30.57%                                | -78.65%<br>-62.44%                        |
| MASTER COMM NELSON CO                              | Master Commissioner                        | 89,617                        | 05,555                         | 8,165                                  | (55,958)<br>8,165                         | 95.01%<br>N/A                  | N/A   | -62.44%<br>N/A                            |
| MASTER COMM OND COUNTY                             | Master Commissioner                        | 66,700                        | 62,038                         | 19,542                                 | (42,496)                                  | 93.01%                         | 29.30%  | -63.71%                                   |
| MASTER COMM OLEMAN CO                              | Master Commissioner                        | 52,071                        | 48,431                         | 19,146                                 | (42,430)                                  | 93.01%                         | 36.77%  | -56.24%                                   |
| MASTER COMM PIKE CO                                | Master Commissioner                        | 87,316                        | 81,213                         | 47,849                                 | (33,364)                                  | 93.01%                         | 54.80%  | -38.21%                                   |
| MASTER COMM SCOTT CO                               | Master Commissioner                        | 107,965                       | 100,418                        | 38,913                                 | (61,505)                                  | 93.01%                         | 36.04%  | -56.97%                                   |
| MASTER COMM SIMPSON CO                             | Master Commissioner                        | 65,167                        | 60,612                         | 18,154                                 | (42,458)                                  | 93.01%                         | 27.86%  | -65.15%                                   |
| MASTER COMM WARREN CO                              | Master Commissioner                        | 146,314                       | 136,087                        | 86,726                                 | (49,361)                                  | 93.01%                         | 59.27%  | -33.74%                                   |
| MASTER COMM WHITLEY CO                             | Master Commissioner                        |                               |                                | 4,250                                  | 4,250                                     | N/A                            | N/A   | N/A                                       |
| MASTER COMMISSIONER HART COUNTY                    | Master Commissioner                        | 31,883                        | 29,654                         | 3,859                                  | (25,795)                                  | 93.01%                         | 12.10%  | -80.91%                                   |
| MASTER COMMISSIONER OF JESSAMINE COUNTY            | Master Commissioner                        | 99,758                        | 92,785                         | 14,016                                 | (78,769)                                  | 93.01%                         | 14.05%  | -78.96%                                   |
| ALLEN COUNTY ATTORNEY                              | County Attorneys                           | 73,736                        | 68,582                         | 104,605                                | 36,023                                    | 93.01%                         | 141.86%   | 48.85%                                    |
| ANDERSON COUNTY ATTORNEY                           | County Attorneys                           | 161,079                       | 149,820                        | 131,988                                | (17,832)                                  | 93.01%                         | 81.94%  | -11.07%                                   |
| BARREN COUNTY ATTORNEY                             | County Attorneys                           | 418,342                       | 389,100                        | 211,407                                | (177,693)                                 | 93.01%                         | 50.53%  | -42.48%                                   |
| BATH COUNTY ATTORNEY                               | County Attorneys                           | -                             | -                              | 112                                    | 112                                       | N/A                            | N/A   | N/A                                       |
| BELL COUNTY ATTORNEY                               | County Attorneys                           | 346,120                       | 321,926                        | 148,790                                | (173,136)                                 | 93.01%                         | 42.99%  | -50.02%                                   |
| BOONE COUNTY ATTORNEY                              | County Attorneys                           | 1,005,496                     | 935,212                        | 401,923                                | (533,289)                                 | 93.01%                         | 39.97%  | -53.04%                                   |

|                           |                                       |                               |                                | Required Contribution                  |   |                                | Effective Employer Contribution Rate<br>Required Contribution / Payroll |   |  |  |
|---------------------------|---------------------------------------|-------------------------------|--------------------------------|--|---|--------------------------------|---|---|--|--|
| Agency Name <sup>1</sup>  | Agency<br>Classification <sup>1</sup> | Projected Payroll<br>FY 20/21 | Current Funding<br>Arrangement | Proposed<br>Legislation                | Increase/(Decrease)<br>due to Legislation | Current Funding<br>Arrangement | Proposed<br>Legislation   | Increase/(Decrease)<br>due to Legislation |  |  |
| (1)                       | (2)                                   | (3)                           | (4) = (3) x 93.01%             | (5) = Exhibit 1 <i>,</i><br>Column (8) | (6) = (5) - (4)                           | (7) = (4) / (3)                | (8) = Exhibit 1 <i>,</i><br>Column (11)                                 | (9) = (8) - (7)                           |  |  |
| BOYLE COUNTY ATTORNEY     | County Attorneys                      | 171,740                       | 159,735                        | 26,835                                 | (132,900)                                 | 93.01%                         | 15.63%  | -77.38%                                   |  |  |
| BRECKINRIDGE CO ATTORNEY  | County Attorneys                      | 256,024                       | 238,128                        | 86,673                                 | (151,455)                                 | 93.01%                         | 33.85%  | -59.16%                                   |  |  |
| BULLITT COUNTY ATTORNEY   | County Attorneys                      | 105,419                       | 98,050                         | 52,071                                 | (45,979)                                  | 93.01%                         | 49.39%  | -43.62%                                   |  |  |
| CALLOWAY COUNTY ATTORNEY  | County Attorneys                      | -                             | -                              | 3,244                                  | 3,244                                     | N/A                            | N/A   | N/A                                       |  |  |
| CARROLL COUNTY ATTORNEY   | County Attorneys                      | 212,670                       | 197,804                        | 73,126                                 | (124,678)                                 | 93.01%                         | 34.38%  | -58.63%                                   |  |  |
| CASEY COUNTY ATTORNEY     | County Attorneys                      | 176,393                       | 164,063                        | 73,622                                 | (90,441)                                  | 93.01%                         | 41.74%  | -51.27%                                   |  |  |
| CHILD SUPPORT ENCORCEMENT | County Attorneys                      | 377,891                       | 351,476                        | 54,100                                 | (297,376)                                 | 93.01%                         | 14.32%  | -78.69%                                   |  |  |
| CHRISTIAN COUNTY ATTORNEY | County Attorneys                      | 126,490                       | 117,648                        | 70,582                                 | (47,066)                                  | 93.01%                         | 55.80%  | -37.21%                                   |  |  |
| CLARK COUNTY ATTORNEY     | County Attorneys                      | 264,741                       | 246,236                        | 104,800                                | (141,436)                                 | 93.01%                         | 39.59%  | -53.42%                                   |  |  |
| CRITTENDEN CO ATTORNEY    | County Attorneys                      | 114,306                       | 106,316                        | 33,194                                 | (73,122)                                  | 93.01%                         | 29.04%  | -63.97%                                   |  |  |
| DAVIESS COUNTY ATTORNEY   | County Attorneys                      | 227,589                       | 211,681                        | 115,830                                | (95,851)                                  | 93.01%                         | 50.89%  | -42.12%                                   |  |  |
| EDMONSON COUNTY ATTORNEY  | County Attorneys                      | 149,318                       | 138,881                        | 43,193                                 | (95,688)                                  | 93.01%                         | 28.93%  | -64.08%                                   |  |  |
| FAYETTE CO ATTORNEY OFF   | County Attorneys                      | 214,370                       | 199,386                        | 205,619                                | 6,233                                     | 93.01%                         | 95.92%  | 2.91%                                     |  |  |
| FLOYD COUNTY ATTORNEY     | County Attorneys                      | 101,215                       | 94,140                         | 76,019                                 | (18,121)                                  | 93.01%                         | 75.11%  | -17.90%                                   |  |  |
| FRANKLIN COUNTY ATTORNEY  | County Attorneys                      | 488,950                       | 454,772                        | 333,248                                | (121,524)                                 | 93.01%                         | 68.16%  | -24.85%                                   |  |  |
| GARRARD COUNTY ATTORNEY   | County Attorneys                      | 207,457                       | 192,956                        | 79,298                                 | (113,658)                                 | 93.01%                         | 38.22%  | -54.79%                                   |  |  |
| GRANT COUNTY CHILD SUPPOR | County Attorneys                      | 202,677                       | 188,510                        | 42,228                                 | (146,282)                                 | 93.01%                         | 20.84%  | -72.17%                                   |  |  |
| GRAVES COUNTY ATTORNEY    | County Attorneys                      | 463,368                       | 430,979                        | 239,333                                | (191,646)                                 | 93.01%                         | 51.65%  | -41.36%                                   |  |  |
| HANCOCK COUNTY ATTORNEY   | County Attorneys                      | 172,169                       | 160,134                        | 40,412                                 | (119,722)                                 | 93.01%                         | 23.47%  | -69.54%                                   |  |  |
| HARRISON COUNTY ATTORNEY  | County Attorneys                      | 36,413                        | 33,868                         | 10,480                                 | (23,388)                                  | 93.01%                         | 28.78%  | -64.23%                                   |  |  |
| HICKMAN COUNTY ATTORNEY   | County Attorneys                      | 185,703                       | 172,722                        | 79,395                                 | (93,327)                                  | 93.01%                         | 42.75%  | -50.26%                                   |  |  |
| HOPKINS COUNTY ATTORNEY   | County Attorneys                      | 240,933                       | 224,092                        | 127,391                                | (96,701)                                  | 93.01%                         | 52.87%  | -40.14%                                   |  |  |
| JACKSON COUNTY ATTORNEY   | County Attorneys                      | 102,216                       | 95,071                         | 51,516                                 | (43,555)                                  | 93.01%                         | 50.40%  | -42.61%                                   |  |  |
| JEFFERSON CO ATTORNEY     | County Attorneys                      | 741,449                       | 689,622                        | 1,079,690                              | 390,068                                   | 93.01%                         | 145.62%   | 52.61%                                    |  |  |
| JOHNSON COUNTY ATTORNEY   | County Attorneys                      | -                             | -                              | 13,534                                 | 13,534                                    | N/A                            | N/A   |   |  |  |
| KENTON COUNTY ATTORNEY    | County Attorneys                      | 115,000                       | 106,962                        | 71,630                                 | (35,332)                                  | 93.01%                         | 62.29%  | -30.72%                                   |  |  |
| KNOTT COUNTY ATTORNEY     | County Attorneys                      | 281,869                       | 262,166                        | 81,854                                 | (180,312)                                 | 93.01%                         | 29.04%  | -63.97%                                   |  |  |
| KNOX COUNTY ATTORNEY      | County Attorneys                      | -                             | -                              | 336                                    | 336                                       | N/A                            | N/A   | N/A                                       |  |  |
| LARUE COUNTY ATTORNEY     | County Attorneys                      | 256,453                       | 238,527                        | 87,501                                 | (151,026)                                 | 93.01%                         | 34.12%  | -58.89%                                   |  |  |
| LAUREL COUNTY ATTORNEY    | County Attorneys                      | 72,261                        | 67,210                         | 28,171                                 | (39,039)                                  | 93.01%                         | 38.99%  | -54.02%                                   |  |  |
| LAWRENCE COUNTY ATTORNEY  | County Attorneys                      | , 2,201                       | 07,210                         |  | (55,055)                                  | N/A                            | N/A   | -54.02%<br>N/A                            |  |  |
| LEE COUNTY ATTORNEY       | County Attorneys                      | 312,678                       | 290,822                        | 84,260                                 | (206,562)                                 | 93.01%                         | 26.95%  | -66.06%                                   |  |  |
| LOGAN COUNTY ATTORNEY     | County Attorneys                      | 230,550                       | 214,435                        | 127,993                                | (86,442)                                  | 93.01%                         | 55.52%  | -37.49%                                   |  |  |
| MADISON COUNTY ATTORNEY   |                                       |                               | 878,121                        | 476,213                                |   | 93.01%                         | 50.44%  | -42.57%                                   |  |  |
| MAGOFFIN CO ATTORNEY      | County Attorneys<br>County Attorneys  | 944,115<br>77,520             | 72,101                         | 19,432                                 | (401,908)<br>(52,669)                     | 93.01%                         | 25.07%  | -67.94%                                   |  |  |
| MCCRACKEN COUNTY ATTORNEY |                                       | 111,033                       |                                | 75,358                                 |   | 93.01%                         | 67.87%  | -25.14%                                   |  |  |
| MCCREARY COUNTY ATTORNEY  | County Attorneys<br>County Attorneys  | 336,834                       | 103,272<br>313,289             | 147,158                                | (27,914)<br>(166,131)                     | 93.01%                         | 43.69%  | -49.32%                                   |  |  |
| MEADE COUNTY ATTORNEY     | County Attorneys                      | 193,193                       | 179,689                        | 106,902                                | (100,131)<br>(72,787)                     | 93.01%                         | 55.33%  | -37.68%                                   |  |  |
| MEADE COUNTY ATTORNEY     |                                       |                               | 97,833                         |  |   | 93.01%                         | 41.93%  | -51.08%                                   |  |  |
| MERCER COUNTY ATTORNEY    | County Attorneys                      | 105,186<br>67,783             | 63,045                         | 44,106                                 | (53,727)                                  | 93.01%                         |   | -38.93%                                   |  |  |
|                           | County Attorneys                      |                               |                                | 36,656                                 | (26,389)                                  |                                | 54.08%  |   |  |  |
|                           | County Attorneys                      | 129,168                       | 120,139                        | 49,496                                 | (70,643)                                  | 93.01%                         | 38.32%  | -54.69%                                   |  |  |
|                           | County Attorneys                      | 280,759                       | 261,134                        | 127,598                                | (133,536)                                 | 93.01%                         | 45.45%  | -47.56%                                   |  |  |
| MORGAN COUNTY ATTORNEY    | County Attorneys                      | 92,503                        | 86,037                         | 115,719                                | 29,682                                    | 93.01%                         | 125.10%   | 32.09%                                    |  |  |
| OLDHAM COUNTY ATTORNEY    | County Attorneys                      | 425,395                       | 395,660                        | 142,902                                | (252,758)                                 | 93.01%                         | 33.59%  | -59.42%                                   |  |  |
| OWEN COUNTY ATTORNEY      | County Attorneys                      | 153,193                       | 142,485                        | 44,488                                 | (97,997)                                  | 93.01%                         | 29.04%  |   |  |  |
| PENDLETON COUNTY ATTORNEY | County Attorneys                      | -                             | -                              | 9,060                                  | 9,060                                     | N/A                            | N/A   | N/A                                       |  |  |
| POWELL COUNTY ATTORNEY    | County Attorneys                      | -                             | -                              | 1,566                                  | 1,566                                     | N/A                            | N/A   | N/A                                       |  |  |
| PULASKI COUNTY ATTORNEY   | County Attorneys                      | 589,655                       | 548,438                        | 154,758                                | (393,680)                                 | 93.01%                         | 26.25%  | -66.76%                                   |  |  |
| ROCKCASTLE CO ATTORNEY    | County Attorneys                      | 178,219                       | 165,761                        | 63,745                                 | (102,016)                                 | 93.01%                         | 35.77%  | -57.24%                                   |  |  |
| ROWAN COUNTY ATTORNEY     | County Attorneys                      | 280,274                       | 260,683                        | 76,991                                 | (183,692)                                 | 93.01%                         | 27.47%  | -65.54%                                   |  |  |
| SHELBY COUNTY ATTORNEY    | County Attorneys                      | 67,085                        | 62,396                         | 30,319                                 | (32,077)                                  | 93.01%                         | 45.19%  | -47.82%                                   |  |  |
| SIMPSON COUNTY ATTORNEY   | County Attorneys                      | 67,315                        | 62,610                         | 37,502                                 | (25,108)                                  | 93.01%                         | 55.71%  | -37.30%                                   |  |  |
| SPENCER COUNTY ATTORNEY   | County Attorneys                      | 353,031                       | 328,354                        | 106,780                                | (221,574)                                 | 93.01%                         | 30.25%  | -62.76%                                   |  |  |
| TRIGG COUNTY ATTORNEY     | County Attorneys                      | 258,541                       | 240,469                        | 81,341                                 | (159,128)                                 | 93.01%                         | 31.46%  | -61.55%                                   |  |  |
| TRIMBLE COUNTY ATTORNEY   | County Attorneys                      | 293,780                       | 273,245                        | 74,251                                 | (198,994)                                 | 93.01%                         | 25.27%  | -67.74%                                   |  |  |
| UNION COUNTY ATTORNEY     | County Attorneys                      | 46,000                        | 42,785                         | 21,874                                 | (20,911)                                  | 93.01%                         | 47.55%  | -45.46%                                   |  |  |

# **Exhibit 2. Impact of Proposed Legislation on Employer Contribution Rates**

|                          |                                       |                               |                                | Required Contribution                  |   |                                | ive Employer Contribution Rate<br>quired Contribution / Payroll |   |  |  |
|--------------------------|---------------------------------------|-------------------------------|--------------------------------|--|---|--------------------------------|---|---|--|--|
| Agency Name <sup>1</sup> | Agency<br>Classification <sup>1</sup> | Projected Payroll<br>FY 20/21 | Current Funding<br>Arrangement | Proposed<br>Legislation                | Increase/(Decrease)<br>due to Legislation | Current Funding<br>Arrangement | Proposed<br>Legislation   | Increase/(Decrease)<br>due to Legislation |  |  |
| (1)                      | (2)                                   | (3)                           | (4) = (3) x 93.01%             | (5) = Exhibit 1 <i>,</i><br>Column (8) | (6) = (5) - (4)                           | (7) = (4) / (3)                | (8) = Exhibit 1,<br>Column (11)                                 | (9) = (8) - (7)                           |  |  |
| WAYNE COUNTY ATTORNEY    | County Attorneys                      | 110,319                       | 102,608                        | 50,565                                 | (52,043)                                  | 93.01%                         | 45.84%  | -47.179                                   |  |  |
| WEBSTER COUNTY ATTORNEY  | County Attorneys                      | 339,019                       | 315,322                        | 117,744                                | (197,578)                                 | 93.01%                         | 34.73%  | -58.28%                                   |  |  |
| WHITLEY COUNTY ATTORNEY  | County Attorneys                      | 285,233                       | 265,295                        | 147,299                                | (117,996)                                 | 93.01%                         | 51.64%  | -41.379                                   |  |  |
|                          |                                       | 1,437,647,279                 | 1,337,155,734                  | 1,267,286,076                          | (69,869,658)                              | 93.01%                         | 88.15%  | -4.86%                                    |  |  |

### Summary of Above Information by Agency Classification

|                          |                               | R            | equired Contribution    |   | Effective Employer Contribution Rate |                         |   |  |  |
|--------------------------|-------------------------------|--------------|-------------------------|---|--------------------------------------|-------------------------|---|--|--|
| Agency<br>Classification | Projected Payroll<br>FY 20/21 | Current Plan | Proposed<br>Legislation | Increase/(Decrease)<br>due to Legislation | Current Plan                         | Proposed<br>Legislation | Increase/(Decrease)<br>due to Legislation |  |  |
| Health Departments       | 93,217,225                    | 86,701,343   | 84,579,849              | (2,121,494)                               | 93.01%                               | 90.73%                  | -2.28%                                    |  |  |
| Non-P1 State Assoc/Corp. | 27,552,699                    | 25,626,765   | 15,818,018              | (9,808,747)                               | 93.01%                               | 57.41%                  | -35.60%                                   |  |  |
| Non-P1 State Agencies    | 10,072,855                    | 9,368,761    | 3,257,489               | (6,111,272)                               | 93.01%                               | 32.34%                  | -60.67%                                   |  |  |
| Reg Mental HIth Units    | 89,710,133                    | 83,439,394   | 76,813,250              | (6,626,144)                               | 93.01%                               | 85.62%                  | -7.39%                                    |  |  |
| Universities             | 103,975,361                   | 96,707,484   | 74,594,993              | (22,112,491)                              | 93.01%                               | 71.74%                  | -21.27%                                   |  |  |
| Judicial Branch          | 55,613,861                    | 51,726,453   | 31,953,187              | (19,773,266)                              | 93.01%                               | 57.46%                  | -35.55%                                   |  |  |
| Legislative Branch       | 20,809,165                    | 19,354,605   | 22,230,636              | 2,876,031                                 | 93.01%                               | 106.83%                 | 13.82%                                    |  |  |
| Master Commissioner      | 3,116,322                     | 2,898,490    | 1,565,744               | (1,332,746)                               | 93.01%                               | 50.24%                  | -42.77%                                   |  |  |
| County Attorneys         | 14,398,238                    | 13,391,803   | 6,955,826               | (6,435,977)                               | 93.01%                               | 48.31%                  | -44.70%                                   |  |  |
| Executive Branch         | 1,019,181,420                 | 947,940,636  | 949,517,084             | 1,576,448                                 | 93.01%                               | 93.16%                  | 0.15%                                     |  |  |

Notes and Assumptions

<sup>1</sup>Agency names and classification information has been provided to GRS by KRS. We have reviewed this data for consistency but did not audit the data. GRS is not responsible for the accuracy or completeness of the information provided to us by KRS.

### Kentucky Retirement Systems Exhibit 3-1 KERS Non-Hazardous Retirement Fund Actuarial Analysis of HB 171, as amended to change the amortization period to 27 years as of July 1, 2019 Comparison of Current Plan and Proposed Legislation (\$ in Millions)

Fiscal Year Beginning Unfunded Actuarial Accrued Liability Funded Ratio **Employer Contributions** Employer Con Difference Proposed Difference Difference July 1, Current Proposed Current Current Proposed Current Prop (2) (3) (4) (5) (8) (9) (10)(11) (1) (1) (6) (7) \$ 924 \$ 924 \$ 2019 \$ 14,260 \$ 14,260 \$ 13% 13% 0% 64.3% 64. \_ -2020 14,192 14,192 14% 14% 0% 1.156 1,094 (62)81.0% 76. \_ 2021 13,840 13,903 63 16% 16% 0% 1,151 1,089 (62) 81.0% 76. 2022 13,490 130 17% 81.2% 76. 13,620 18% -1% 1,150 1,088 (62)202 2023 13,127 13,329 20% 19% -1% 1,147 1,085 (62)81.2% 76. 2024 276 12,746 13,022 22% 21% 1,144 1,082 (62)81.2% 76. -1% 2025 12,345 12,699 354 24% 22% -2% 1,142 1,079 81.2% 76. (63)2026 11,922 12,359 437 27% 24% -3% 1,139 1,076 (63)81.2% 76. 2027 11,476 524 29% -3% 81.2% 12,000 26% 1,136 1,074 (62)76. 2028 11,007 11,622 615 31% 27% -4% 1,134 1,071 (63)81.2% 76. 2029 10,512 11,224 712 34% 29% -5% 1,132 1,069 (63)81.2% 76. 2030 9,991 10,805 814 36% 31% -5% 1,130 1,067 81.2% 76. (63)2031 9,442 921 33% 81.2% 10,363 39% -6% 1,130 1,067 (63)76. 2032 8,861 9,896 1,035 42% 36% -6% 1,128 1,065 (63) 81.0% 76. 2033 8,250 9,405 1,155 46% 38% -8% 1,129 1,065 (64)81.0% 76. 2034 7,605 8,885 1,280 49% 41% -8% 1,126 1,062 80.7% 76. (64)2035 6,926 8,339 1,413 53% 43% -10% 1,128 1,064 (64) 80.7% 76. 2036 6,210 7,762 1,552 57% 47% -10% 1,126 1,062 80.4% 75. (64)2037 5,457 7,155 1,698 62% 50% -12% 1,130 1,066 (64) 80.4% 75. 75. 2038 4,657 6,511 1,854 67% 54% -13% 1,126 1,062 (64)79.7% 75. 2039 3,821 5,837 2,016 72% 58% -14% 1,067 79.7% 1,131 (64) 2,934 62% 1,123 1,060 78.7% 2040 5,122 2,188 78% -16% (63) 74. 2041 2,009 4,377 2,368 85% 67% -18% 1,128 1,065 78.7% 74. (63) 2042 1,031 3,587 2,556 92% 73% -19% 1,118 1,058 (60)77.8% 73. 2043 2,762 2,762 100% 79% -21% 64 1,062 73. 998 4.4% -2044 1,889 1,889 100% 85% -15% 64 1.057 993 4.4% 73. 73. 2045 976 976 100% 92% -8% 63 1,060 997 4.4% 2046 100% 100% 63 63 4.3% 4.3 0% \_ --100% 2047 100% 0% 63 63 4.3% 4.3 --\_ -2048 100% 100% 0% 63 63 4.3% 4.3 \_ \_

Gabriel Roeder Smith & Company

| ntribution |            |
|------------|------------|
| osed       | Difference |
| 2)         | (13)       |
|            |            |
| .3%        | 0.0%       |
| .6%        | -4.4%      |
| .6%        | -4.4%      |
| .8%        | -4.4%      |
| .8%        | -4.4%      |
| .8%        | -4.4%      |
| .8%        | -4.4%      |
| .7%        | -4.5%      |
| .7%        | -4.5%      |
| .7%        | -4.5%      |
| .7%        | -4.5%      |
| .6%        | -4.6%      |
| .6%        | -4.6%      |
| .5%        | -4.5%      |
| .5%        | -4.5%      |
| .2%        | -4.5%      |
| .2%        | -4.5%      |
| .8%        | -4.6%      |
| .8%        | -4.6%      |
| .2%        | -4.5%      |
| .2%        | -4.5%      |
| .3%        | -4.4%      |
| .3%        | -4.4%      |
| .6%        | -4.2%      |
| .6%        | 69.2%      |
| .0%        | 68.6%      |
| .0%        | 68.6%      |
| 3%         | 0.0%       |
| 3%         | 0.0%       |
| 3%         | 0.0%       |
|            |            |

### Kentucky Retirement Systems Exhibit 3-2

**KERS Non-Hazardous Retirement Fund** 

### Actuarial Analysis of HB 171, as amended to change the amortization period to 27 years as of July 1, 2019

Current Plan (Amortization Period = 24 Years at June 30, 2019)

(\$ in Millions)

| Fiscal Year<br>Beginning<br>July 1, |                                   |        |                                 |  |                              |    |                              |                        |                    | Total   | Employer                                     | Annual Cash Flow Analysis               |                                     |                              |                      |  |
|-------------------------------------|-----------------------------------|--------|---------------------------------|--|------------------------------|----|------------------------------|------------------------|--------------------|---|--|---|-------------------------------------|------------------------------|----------------------|--|
|                                     | Actuarial<br>Accrued<br>Liability |        | Actuarial<br>Value of<br>Assets | Unfunded<br>Actuarial<br>Accrued Liability | Funded<br>Ratio<br>(3) / (2) | En | Fotal<br>ployer<br>tribution | Member<br>Contribution | Covered<br>Payroll | Employer<br>Contribution as %<br>of Covered Payroll | Actuarial<br>Determined<br>Contribution Rate | Member and<br>Employer<br>Contributions | Benefit<br>Payments<br>and Expenses | Net<br>External<br>Cash Flow | Investment<br>Income |  |
| (1)                                 |                                   | (2)    | (3)                             | (4)  | (5)                          |    | (6)                          | (7)                    | (8)                | (9)   | (10)   | (11)                                    | (12)                                | (13)                         | (14)                 |  |
| 2019                                | \$                                | 16,466 | \$ 2,206                        | \$ 14,260                                  | 13%                          | \$ | 924                          | \$ 72 \$               | 1,438              | 64.26%  | 74.54%                                       | \$ 996                                  | \$ (1,008) \$                       | \$ (12)                      | \$ 117               |  |
| 2020                                | Ŷ                                 | 16,493 | 2,301                           | 14,192                                     | 14%                          | Ŷ  | 1,156                        | • <u>1</u> •           | 1,428              | 80.98%  | 80.98%                                       | 1,227                                   | (1,024)                             | 203                          | 128                  |  |
| 2021                                |                                   | 16,500 | 2,660                           | 13,840                                     | 16%                          |    | 1,151                        | 71                     | 1,422              | 80.98%  | 81.27%                                       | 1,222                                   | (1,038)                             | 184                          | 145                  |  |
| 2022                                |                                   | 16,489 | 2,999                           | 13,490                                     | 18%                          |    | 1,150                        | 71                     | 1,417              | 81.21%  | 81.21%                                       | 1,221                                   | (1,051)                             | 170                          | 162                  |  |
| 2023                                |                                   | 16,459 | 3,332                           | 13,127                                     | 20%                          |    | 1,147                        | 71                     | 1,412              | 81.21%  | 81.20%                                       | 1,218                                   | (1,065)                             | 153                          | 179                  |  |
| 2024                                |                                   | 16,410 | 3,664                           | 12,746                                     | 22%                          |    | 1,144                        | 70                     | 1,409              | 81.23%  | 81.23%                                       | 1,214                                   | (1,077)                             | 137                          | 196                  |  |
| 2025                                |                                   | 16,342 | 3,997                           | 12,345                                     | 24%                          |    | 1,142                        | 70                     | 1,406              | 81.23%  | 81.22%                                       | 1,212                                   | (1,089)                             | 123                          | 213                  |  |
| 2026                                |                                   | 16,255 | 4,333                           | 11,922                                     | 27%                          |    | 1,139                        | 70                     | 1,402              | 81.20%  | 81.20%                                       | 1,209                                   | (1,100)                             | 109                          | 230                  |  |
| 2027                                |                                   | 16,149 | 4,673                           | 11,476                                     | 29%                          |    | 1,136                        | 70                     | 1,399              | 81.20%  | 81.19%                                       | 1,206                                   | (1,110)                             | 96                           | 248                  |  |
| 2028                                |                                   | 16,024 | 5,017                           | 11,007                                     | 31%                          |    | 1,134                        | 70                     | 1,396              | 81.20%  | 81.20%                                       | 1,204                                   | (1,118)                             | 86                           | 266                  |  |
| 2029                                |                                   | 15,880 | 5,368                           | 10,512                                     | 34%                          |    | 1,132                        | 70                     | 1,394              | 81.20%  | 81.19%                                       | 1,202                                   | (1,121)                             | 81                           | 284                  |  |
| 2030                                |                                   | 15,724 | 5,733                           | 9,991                                      | 36%                          |    | 1,130                        | 70                     | 1,393              | 81.16%  | 81.16%                                       | 1,200                                   | (1,126)                             | 74                           | 303                  |  |
| 2031                                |                                   | 15,552 | 6,110                           | 9,442                                      | 39%                          |    | 1,130                        | 70                     | 1,393              | 81.16%  | 81.12%                                       | 1,200                                   | (1,128)                             | 72                           | 323                  |  |
| 2032                                |                                   | 15,366 | 6,505                           | 8,861                                      | 42%                          |    | 1,128                        | 70                     | 1,393              | 81.00%  | 81.00%                                       | 1,198                                   | (1,128)                             | 70                           | 343                  |  |
| 2033                                |                                   | 15,168 | 6,918                           | 8,250                                      | 46%                          |    | 1,129                        | 70                     | 1,394              | 81.00%  | 80.88%                                       | 1,199                                   | (1,127)                             | 72                           | 365                  |  |
| 2034                                |                                   | 14,959 | 7,354                           | 7,605                                      | 49%                          |    | 1,126                        | 70                     | 1,395              | 80.72%  | 80.72%                                       | 1,196                                   | (1,124)                             | 72                           | 388                  |  |
| 2035                                |                                   | 14,740 | 7,814                           | 6,926                                      | 53%                          |    | 1,128                        | 70                     | 1,397              | 80.72%  | 80.57%                                       | 1,198                                   | (1,119)                             | 79                           | 412                  |  |
| 2036                                |                                   | 14,515 | 8,305                           | 6,210                                      | 57%                          |    | 1,126                        | 70                     | 1,401              | 80.36%  | 80.36%                                       | 1,196                                   | (1,109)                             | 87                           | 438                  |  |
| 2037                                |                                   | 14,286 | 8,829                           | 5,457                                      | 62%                          |    | 1,130                        | 70                     | 1,406              | 80.36%  | 80.07%                                       | 1,200                                   | (1,097)                             | 103                          | 466                  |  |
| 2038                                |                                   | 14,056 | 9,399                           | 4,657                                      | 67%                          |    | 1,126                        | 71                     | 1,413              | 79.66%  | 79.66%                                       | 1,197                                   | (1,082)                             | 115                          | 496                  |  |
| 2039                                |                                   | 13,830 | 10,009                          | 3,821                                      | 72%                          |    | 1,131                        | 71                     | 1,420              | 79.66%  | 79.26%                                       | 1,202                                   | (1,067)                             | 135                          | 529                  |  |
| 2040                                |                                   | 13,608 | 10,674                          | 2,934                                      | 78%                          |    | 1,123                        | 71                     | 1,426              | 78.73%  | 78.73%                                       | 1,194                                   | (1,049)                             | 145                          | 564                  |  |
| 2041                                |                                   | 13,392 | 11,383                          | 2,009                                      | 85%                          |    | 1,128                        | 72                     | 1,433              | 78.73%  | 78.39%                                       | 1,200                                   | (1,032)                             | 168                          | 602                  |  |
| 2042                                |                                   | 13,183 | 12,152                          | 1,031                                      | 92%                          |    | 1,118                        | 72                     | 1,438              | 77.75%  | 77.75%                                       | 1,190                                   | (1,014)                             | 176                          | 643                  |  |
| 2043                                |                                   | 12,980 | 12,980                          | -  | 100%                         |    | 64                           | 72                     | 1,444              | 4.44%   | 4.44%  | 136                                     | (996)                               | (860)                        | 658                  |  |
| 2044                                |                                   | 12,785 | 12,785                          | -  | 100%                         |    | 64                           | 72                     | 1,448              | 4.40%   | 4.40%  | 136                                     | (979)                               | (843)                        | 648                  |  |
| 2045                                |                                   | 12,599 | 12,599                          | -  | 100%                         |    | 63                           | 73                     | 1,453              | 4.36%   | 4.36%  | 136                                     | (961)                               | (825)                        | 639                  |  |
| 2046                                |                                   | 12,421 | 12,421                          | -  | 100%                         |    | 63                           | 73                     | 1,457              | 4.32%   | 4.32%  | 136                                     | (943)                               | (807)                        | 629                  |  |
| 2047                                |                                   | 12,252 | 12,252                          | -  | 100%                         |    | 63                           | 73                     | 1,461              | 4.29%   | 4.29%  | 136                                     | (925)                               | (789)                        | 620                  |  |
| 2048                                |                                   | 12,093 | 12,093                          | -  | 100%                         |    | 63                           | 73                     | 1,465              | 4.27%   | 4.27%  | 136                                     | (907)                               | (771)                        | 612                  |  |

#### Notes and assumptions:

The projection is based on the results of the June 30, 2019 actuarial valuation and assumes that all actuarial assumptions are realized, including the assumed annual asset return of 5.25%. New active members are assumed to be hired to replace the current active members as they are assumed to terminate employment or retire, but the total active population is assumed

to decrease by 2% each year over the next 30 years.

The contribution rate established in the Commonwealth's biennium budget is based on the calculated actuarial determined contribution rate.

The 64.26% employer contribution rate for FY 2020 is the effective contribution rate after reflecting HB 1 (passed during the 2019 Special Session) which provided that

Regional Mental Health/Mental Retardation Boards, Local and District Health Departments, State Universities, Community Colleges and any other agency eligible to voluntarily cease participating in the KERS to contribute a 41.06% of pay contribution rate for FY 2019. Collectively these entities reflect approximately 23% of the covered payroll in the System.

### Kentucky Retirement Systems Exhibit 3-3

KERS Non-Hazardous Retirement Fund

### Actuarial Analysis of HB 171, as amended to change the amortization period to 27 years as of July 1, 2019

Proposed Plan (Amortization Period = 27 Years at June 30, 2019)

(\$ in Millions)

|                                     |    |                                   |                                 |  |                              |                            |       |                        | Total              | Employer  | Annual Cash Flow Analysis                    |   |                                     |                              |                      |
|-------------------------------------|----|-----------------------------------|---------------------------------|--|------------------------------|----------------------------|-------|------------------------|--------------------|---|--|---|-------------------------------------|------------------------------|----------------------|
| Fiscal Year<br>Beginning<br>July 1, | 1  | Actuarial<br>Accrued<br>Liability | Actuarial<br>Value of<br>Assets | Unfunded<br>Actuarial<br>Accrued Liability | Funded<br>Ratio<br>(3) / (2) | Tota<br>Employ<br>Contribu | yer   | Member<br>Contribution | Covered<br>Payroll | Employer<br>Contribution as %<br>of Covered Payroll | Actuarial<br>Determined<br>Contribution Rate | Member and<br>Employer<br>Contributions | Benefit<br>Payments<br>and Expenses | Net<br>External<br>Cash Flow | Investment<br>Income |
| (1)                                 |    | (2)                               | (3)                             | (4)  | (5)                          | (6)                        |       | (7)                    | (8)                | (9)   | (10)   | (11)                                    | (12)                                | (13)                         | (14)                 |
|                                     |    |                                   |                                 |  |                              |                            |       |                        |                    |   |  |   |                                     |                              |                      |
| 2019                                | \$ | 16,466                            |                                 |  | 13%                          | \$                         | 924   |                        | -                  | 64.26%  | 74.54%                                       | \$ 996                                  |                                     |                              |                      |
| 2020                                |    | 16,493                            | 2,301                           | 14,192                                     | 14%                          |                            | 1,094 | 71                     | 1,428              | 76.62%  | 76.62%                                       | 1,165                                   | (1,024)                             | 141                          | 126                  |
| 2021                                |    | 16,500                            | 2,597                           | 13,903                                     | 16%                          |                            | 1,089 | 71                     | 1,422              | 76.62%  | 76.88%                                       | 1,160                                   | (1,038)                             | 122                          | 140                  |
| 2022                                |    | 16,489                            | 2,869                           | 13,620                                     | 17%                          |                            | 1,088 | 71                     | 1,417              | 76.81%  | 76.81%                                       | 1,159                                   | (1,051)                             | 108                          | 153                  |
| 2023                                |    | 16,459                            | 3,130                           | 13,329                                     | 19%                          |                            | 1,085 | 71                     | 1,412              | 76.81%  | 76.79%                                       | 1,156                                   | (1,065)                             | 91                           | 167                  |
| 2024                                |    | 16,410                            | 3,388                           | 13,022                                     | 21%                          |                            | 1,082 | 70                     | 1,409              | 76.80%  | 76.80%                                       | 1,152                                   | (1,077)                             | 75                           | 180                  |
| 2025                                |    | 16,342                            | 3,643                           | 12,699                                     | 22%                          |                            | 1,079 | 70                     | 1,406              | 76.80%  | 76.77%                                       | 1,149                                   | (1,089)                             | 60                           | 193                  |
| 2026                                |    | 16,255                            | 3,896                           | 12,359                                     | 24%                          |                            | 1,076 | 70                     | 1,402              | 76.74%  | 76.74%                                       | 1,146                                   | (1,100)                             | 46                           | 206                  |
| 2027                                |    | 16,149                            | 4,149                           | 12,000                                     | 26%                          |                            | 1,074 | 70                     | 1,399              | 76.74%  | 76.71%                                       | 1,144                                   | (1,110)                             | 34                           | 219                  |
| 2028                                |    | 16,024                            | 4,402                           | 11,622                                     | 27%                          |                            | 1,071 | 70                     | 1,396              | 76.70%  | 76.70%                                       | 1,141                                   | (1,118)                             | 23                           | 232                  |
| 2029                                |    | 15,880                            | 4,656                           | 11,224                                     | 29%                          |                            | 1,069 | 70                     | 1,394              | 76.70%  | 76.68%                                       | 1,139                                   | (1,121)                             | 18                           | 245                  |
| 2030                                |    | 15,724                            | 4,919                           | 10,805                                     | 31%                          |                            | 1,067 | 70                     | 1,393              | 76.63%  | 76.63%                                       | 1,137                                   | (1,126)                             | 11                           | 259                  |
| 2031                                |    | 15,552                            | 5,189                           | 10,363                                     | 33%                          |                            | 1,067 | 70                     | 1,393              | 76.63%  | 76.58%                                       | 1,137                                   | (1,128)                             | 9                            | 273                  |
| 2032                                |    | 15,366                            | 5,470                           | 9,896                                      | 36%                          |                            | 1,065 | 70                     | 1,393              | 76.45%  | 76.45%                                       | 1,135                                   | (1,128)                             | 7                            | 287                  |
| 2033                                |    | 15,168                            | 5,763                           | 9,405                                      | 38%                          |                            | 1,065 | 70                     | 1,394              | 76.45%  | 76.33%                                       | 1,135                                   | (1,127)                             | 8                            | 303                  |
| 2034                                |    | 14,959                            | 6,074                           | 8,885                                      | 41%                          |                            | 1,062 | 70                     | 1,395              | 76.17%  | 76.17%                                       | 1,132                                   | (1,124)                             | 8                            | 319                  |
| 2035                                |    | 14,740                            | 6,401                           | 8,339                                      | 43%                          |                            | 1,064 | 70                     | 1,397              | 76.17%  | 76.01%                                       | 1,134                                   | (1,119)                             | 15                           | 336                  |
| 2036                                |    | 14,515                            | 6,753                           | 7,762                                      | 47%                          |                            | 1,062 | 70                     | 1,401              | 75.80%  | 75.80%                                       | 1,132                                   | (1,109)                             | 23                           | 355                  |
| 2037                                |    | 14,286                            | 7,131                           | 7,155                                      | 50%                          |                            | 1,066 | 70                     | 1,406              | 75.80%  | 75.52%                                       | 1,136                                   | (1,097)                             | 39                           | 375                  |
| 2038                                |    | 14,056                            | 7,545                           | 6,511                                      | 54%                          |                            | 1,062 | 71                     | 1,413              | 75.15%  | 75.15%                                       | 1,133                                   | (1,082)                             | 51                           | 397                  |
| 2039                                |    | 13,830                            | 7,993                           | 5,837                                      | 58%                          |                            | 1,067 | 71                     | 1,420              | 75.15%  | 74.78%                                       | 1,138                                   | (1,067)                             | 71                           | 421                  |
| 2040                                |    | 13,608                            | 8,486                           | 5,122                                      | 62%                          |                            | 1,060 | 71                     | 1,426              | 74.33%  | 74.33%                                       | 1,131                                   | (1,049)                             | 82                           | 448                  |
| 2041                                |    | 13,392                            | 9,015                           | 4,377                                      | 67%                          |                            | 1,065 | 72                     | 1,433              | 74.33%  | 73.99%                                       | 1,137                                   | (1,032)                             | 105                          | 476                  |
| 2042                                |    | 13,183                            | 9,596                           | 3,587                                      | 73%                          |                            | 1,058 | 72                     | 1,438              | 73.56%  | 73.56%                                       | 1,130                                   | (1,014)                             | 116                          | 507                  |
| 2043                                |    | 12,980                            | 10,218                          | 2,762                                      | 79%                          |                            | 1,062 | 72                     | 1,444              | 73.56%  | 73.31%                                       | 1,134                                   | (996)                               | 138                          | 540                  |
| 2044                                |    | 12,785                            | 10,896                          | 1,889                                      | 85%                          |                            | 1,057 | 72                     | 1,448              | 72.97%  | 72.97%                                       | 1,129                                   | (979)                               | 150                          | 576                  |
| 2045                                |    | 12,599                            | 11,623                          | 976  | 92%                          |                            | 1,060 | 73                     | 1,453              | 72.97%  | 72.96%                                       | 1,133                                   | (961)                               | 172                          | 615                  |
| 2046                                |    | 12,421                            | 12,421                          | -  | 100%                         |                            | 63    | 73                     | 1,457              | 4.32%   | 4.32%  | 136                                     | (943)                               | (807)                        | 630                  |
| 2047                                |    | 12,252                            | 12,252                          | -  | 100%                         |                            | 63    | 73                     | 1,461              | 4.29%   | 4.29%  | 136                                     | (925)                               | (789)                        | 622                  |
| 2048                                |    | 12,093                            | 12,093                          | -  | 100%                         |                            | 63    | 73                     | 1,465              | 4.27%   | 4.27%  | 136                                     | (907)                               | (771)                        | 613                  |

Notes and assumptions:

The projection is based on the same methods and assumptions as the projection under the Current Plan (Exhibit 3-2), except that the funding period is 27 years at June 30, 2019 (rather than the current funding period of 24 years at June 30, 2019).

### Kentucky Retirement Systems Exhibit 4-1 KERS Non-Hazardous Insurance Fund Actuarial Analysis of HB 171, as amended to change the amortization period to 27 years as of July 1, 2019 Comparison of Current Plan and Proposed Legislation (\$ in Millions)

Fiscal Year Beginning Unfunded Actuarial Accrued Liability Funded Ratio **Employer Contributions** Employer Con Difference Proposed Difference Difference Current July 1, Current Proposed Current Current Proposed Prop (1) (2) (3) (4) (5) (8) (9) (10) (11) (1) (6) (7) 1,742 \$ 1,742 \$ 165 \$ 2019 \$ 36% 36% 0% \$ 165 \$ 11.5% 11. --2020 1,718 1,718 39% 39% 0% 171 164 (7)12.0% 11.5 \_ 2021 1,673 1,681 42% 42% 0% 170 163 (7) 12.0% 11. 8 2022 1.633 1,648 15 44% 160 (7) 11.8% 11. 45% -1% 167 23 2023 1,595 1,618 47% 46% -1% 166 159 (7) 11.8% 11. 2024 1,582 32 1,550 50% 49% 163 156 (7) 11.6% 11. -1% 2025 1,505 1,546 41 52% 50% -2% 163 (7) 11.6% 11. 156 2026 1,454 1,505 51 54% 52% -2% 159 152 (7) 11.4% 10. 2027 1,403 1,465 62 54% -2% 159 152 (7) 11.4% 10.9 56% 73 2028 1,346 1,419 58% 56% -2% 155 148 (7) 11.2% 10.0 85 2029 1,288 1,373 155 148 (7) 60% 58% -2% 11.2% 10. 97 2030 1,225 1,322 62% 59% -3% 151 144 (7) 10.9% 10.4 2031 1,272 111 144 (7)10.9% 10.4 1,161 64% 61% -3% 151 2032 1,090 1,215 125 66% 62% -4% 148 141 (7) 10.7% 10. 140 2033 1,018 1,158 68% 64% -4% 148 141 (7) 10.7% 10. 2034 1,097 157 940 71% 66% -5% 146 139 (7) 10.5% 10. 2035 858 1,031 173 73% 68% -5% 146 139 (7) 10.5% 10.0 2036 770 962 192 76% 70% -6% 144 137 (7) 10.3% 9.8 2037 679 889 210 78% 72% -6% 145 138 (7) 10.3% 9.8 230 (7) 9.7 2038 581 811 81% 74% -7% 143 136 10.1% 252 9.7 2039 478 730 85% 76% -9% 143 137 10.1% (6) 2040 368 642 274 88% 79% -9% 141 135 9.9% 9.5 (6) 2041 252 551 299 92% 82% -10% 142 135 (7) 9.9% 9.5 2042 128 451 323 96% 85% -11% 139 134 (5) 9.7% 9.3 2043 349 349 100% 88% -12% 134 128 0.4% 9.3 6 \_ 2044 239 239 100% 92% -8% 6 133 127 0.4% 9.2 123 123 133 9.2 2045 100% 96% -4% 6 127 0.4% 2046 100% 0.4% 0.4 100% 0% 6 6 ---100% 0.4 2047 100% 0% 6 6 0.4% \_ \_ -\_ 2048 100% 100% 0% 5 5 0.4% 0.4 \_ \_ \_

Gabriel Roeder Smith & Company

| ntribution |            |
|------------|------------|
| posed      | Difference |
| (2)        | (13)       |
|            |            |
| .5%        | 0.0%       |
| .5%        | -0.5%      |
| .5%        | -0.5%      |
| .3%        | -0.5%      |
| .3%        | -0.5%      |
| .1%        | -0.5%      |
| .1%        | -0.5%      |
| .9%        | -0.5%      |
| .9%        | -0.5%      |
| .6%        | -0.6%      |
| .6%        | -0.6%      |
| .4%        | -0.5%      |
| .4%        | -0.5%      |
| .2%        | -0.5%      |
| .2%        | -0.5%      |
| .0%        | -0.5%      |
| .0%        | -0.5%      |
| 8%         | -0.5%      |
| 8%         | -0.5%      |
| 7%         | -0.4%      |
| 7%         | -0.4%      |
| 5%         | -0.4%      |
| 5%         | -0.4%      |
| 3%         | -0.4%      |
| 3%         | 8.9%       |
| 2%         | 8.8%       |
| 2%         | 8.8%       |
| 4%         | 0.0%       |
| 4%         | 0.0%       |
| 4%         | 0.0%       |
|            |            |

### Kentucky Retirement Systems Exhibit 4-2

**KERS Non-Hazardous Insurance Fund** 

### Actuarial Analysis of HB 171, as amended to change the amortization period to 27 years as of July 1, 2019

Current Plan (Amortization Period = 24 Years at June 30, 2019)

(\$ in Millions)

|                                     |                                   |                                 |  |                              |                                   |                        |                    | Total   | Employer                                     | Annual Cash Flow Analysis               |                                     |                              |                      |  |
|-------------------------------------|-----------------------------------|---------------------------------|--|------------------------------|-----------------------------------|------------------------|--------------------|---|--|---|-------------------------------------|------------------------------|----------------------|--|
| Fiscal Year<br>Beginning<br>July 1, | Actuarial<br>Accrued<br>Liability | Actuarial<br>Value of<br>Assets | Unfunded<br>Actuarial<br>Accrued Liability | Funded<br>Ratio<br>(3) / (2) | Total<br>Employer<br>Contribution | Member<br>Contribution | Covered<br>Payroll | Employer<br>Contribution as %<br>of Covered Payroll | Actuarial<br>Determined<br>Contribution Rate | Member and<br>Employer<br>Contributions | Benefit<br>Payments<br>and Expenses | Net<br>External<br>Cash Flow | Investment<br>Income |  |
| (1)                                 | (2)                               | (3)                             | (4)  | (5)                          | (6)                               | (7)                    | (8)                | (9)   | (10)   | (11)                                    | (12)                                | (13)                         | (14)                 |  |
| 2019                                | \$ 2,733                          | 3 \$ 991                        | \$ 1,742                                   | 36%                          | \$ 165                            | \$ 6\$                 | 1,431              | 11.50%  | 10.65%                                       | \$ 171                                  | \$ (133) \$                         | \$ 38                        | \$ 63                |  |
| 2020                                | 2,808                             |                                 |  | 39%                          | ¢ 100<br>171                      | ¢ °¢                   | 1,421              | 12.03%  | 12.03%                                       | ¢ 171<br>177                            | (137)                               | 40                           | ¢ 00<br>70           |  |
| 2021                                | 2,882                             |                                 |  | 42%                          | 170                               | 7                      | 1,415              | 12.03%  | 11.99%                                       | 177                                     | (145)                               | 32                           | 76                   |  |
| 2022                                | 2,95                              |                                 |  | 45%                          | 167                               | 7                      | 1,410              | 11.83%  | 11.83%                                       | 174                                     | (153)                               | 21                           | 83                   |  |
| 2023                                | 3,015                             |                                 |  | 47%                          | 166                               | 8                      | 1,406              | 11.83%  | 11.73%                                       | 174                                     | (161)                               | 13                           | 89                   |  |
| 2024                                | 3,072                             |                                 |  | 50%                          | 163                               | 8                      | 1,402              | 11.63%  | 11.63%                                       | 171                                     | (170)                               | 1                            | 95                   |  |
| 2025                                | 3,123                             |                                 |  | 52%                          | 163                               | 9                      | 1,399              | 11.63%  | 11.53%                                       | 172                                     | (180)                               | (8)                          | 101                  |  |
| 2026                                | 3,165                             |                                 |  | 54%                          | 159                               | 9                      | 1,396              | 11.40%  | 11.40%                                       | 168                                     | (189)                               | (21)                         | 106                  |  |
| 2027                                | 3,200                             | ) 1,797                         | 1,403                                      | 56%                          | 159                               | 10                     | 1,393              | 11.40%  | 11.28%                                       | 169                                     | (199)                               | (30)                         | 111                  |  |
| 2028                                | 3,224                             | 1,878                           | 3 1,346                                    | 58%                          | 155                               | 10                     | 1,390              | 11.15%  | 11.15%                                       | 165                                     | (208)                               | (43)                         | 116                  |  |
| 2029                                | 3,239                             | 9 1,951                         | 1,288                                      | 60%                          | 155                               | 11                     | 1,388              | 11.15%  | 11.03%                                       | 166                                     | (217)                               | (51)                         | 120                  |  |
| 2030                                | 3,24                              | 5 2,020                         | ) 1,225                                    | 62%                          | 151                               | 11                     | 1,387              | 10.89%  | 10.89%                                       | 162                                     | (224)                               | (62)                         | 124                  |  |
| 2031                                | 3,244                             | 4 2,083                         | 3 1,161                                    | 64%                          | 151                               | 11                     | 1,387              | 10.89%  | 10.78%                                       | 162                                     | (229)                               | (67)                         | 128                  |  |
| 2032                                | 3,23                              | 5 2,145                         | 5 1,090                                    | 66%                          | 148                               | 12                     | 1,387              | 10.66%  | 10.66%                                       | 160                                     | (233)                               | (73)                         | 132                  |  |
| 2033                                | 3,22                              | 2,203                           | 3 1,018                                    | 68%                          | 148                               | 12                     | 1,388              | 10.66%  | 10.58%                                       | 160                                     | (236)                               | (76)                         | 135                  |  |
| 2034                                | 3,203                             | 3 2,263                         | 940  | 71%                          | 146                               | 13                     | 1,389              | 10.48%  | 10.48%                                       | 159                                     | (238)                               | (79)                         | 139                  |  |
| 2035                                | 3,180                             | ) 2,322                         | 858  | 73%                          | 146                               | 13                     | 1,391              | 10.48%  | 10.40%                                       | 159                                     | (238)                               | (79)                         | 143                  |  |
| 2036                                | 3,150                             | 5 2,386                         | 5 770                                      | 76%                          | 144                               | 13                     | 1,395              | 10.32%  | 10.32%                                       | 157                                     | (236)                               | (79)                         | 147                  |  |
| 2037                                | 3,132                             | 2 2,453                         | 679  | 78%                          | 145                               | 13                     | 1,401              | 10.32%  | 10.23%                                       | 158                                     | (234)                               | (76)                         | 151                  |  |
| 2038                                | 3,108                             | 3 2,527                         | 581  | 81%                          | 143                               | 14                     | 1,407              | 10.13%  | 10.13%                                       | 157                                     | (232)                               | (75)                         | 156                  |  |
| 2039                                | 3,085                             | 5 2,607                         | 478  | 85%                          | 143                               | 14                     | 1,414              | 10.13%  | 10.05%                                       | 157                                     | (229)                               | (72)                         | 161                  |  |
| 2040                                | 3,063                             | 3 2,695                         | 368  | 88%                          | 141                               | 14                     | 1,421              | 9.93%   | 9.93%  | 155                                     | (226)                               | (71)                         | 166                  |  |
| 2041                                | 3,043                             | 3 2,791                         | 252  | 92%                          | 142                               | 14                     | 1,427              | 9.93%   | 9.87%  | 156                                     | (223)                               | (67)                         | 172                  |  |
| 2042                                | 3,024                             |                                 |  | 96%                          | 139                               | 14                     | 1,433              | 9.67%   | 9.67%  | 153                                     | (219)                               | (66)                         | 179                  |  |
| 2043                                | 3,009                             |                                 |  | 100%                         | 6                                 | 14                     | 1,438              | 0.42%   | 0.42%  | 20                                      | (216)                               | (196)                        | 182                  |  |
| 2044                                | 2,995                             |                                 |  | 100%                         | 6                                 | 14                     | 1,443              | 0.41%   | 0.41%  | 20                                      | (214)                               | (194)                        | 181                  |  |
| 2045                                | 2,983                             |                                 |  | 100%                         | 6                                 | 14                     | 1,447              | 0.40%   | 0.40%  | 20                                      | (212)                               | (192)                        | 180                  |  |
| 2046                                | 2,97                              | 2,971                           | -  | 100%                         | 6                                 | 14                     | 1,451              | 0.38%   | 0.38%  | 20                                      | (212)                               | (192)                        | 180                  |  |
| 2047                                | 2,960                             |                                 |  | 100%                         | 6                                 | 15                     | 1,455              | 0.38%   | 0.38%  | 21                                      | (212)                               | (191)                        | 179                  |  |
| 2048                                | 2,947                             | 2,947                           | -  | 100%                         | 5                                 | 15                     | 1,459              | 0.37%   | 0.37%  | 20                                      | (212)                               | (192)                        | 178                  |  |

#### Notes and assumptions:

The projection is based on the results of the June 30, 2019 actuarial valuation and assumes that all actuarial assumptions are realized, including the assumed annual asset return of 6.25%. New active members are assumed to be hired to replace the current active members as they are assumed to terminate employment or retire, but the total active population is assumed

to decrease by 2% each year over the next 30 years.

The contribution rate established in the Commonwealth's biennium budget is based on the calculated actuarial determined contribution rate.

The 11.50% employer contribution rate for FY 2020 is the effective contribution rate after reflecting HB 1 (passed during the 2019 Special Session) which provided that

Regional Mental Health/Mental Retardation Boards, Local and District Health Departments, State Universities, Community Colleges and any other agency eligible to voluntarily cease participating in the KERS to contribute a 8.41% of pay contribution rate for FY 2019. Collectively these entities reflect approximately 23% of the covered payroll in the System.

### Kentucky Retirement Systems Exhibit 4-3

**KERS Non-Hazardous Insurance Fund** 

### Actuarial Analysis of HB 171, as amended to change the amortization period to 27 years as of July 1, 2019

Proposed Plan (Amortization Period = 27 Years at June 30, 2019)

(\$ in Millions)

|                                     |                                   |                                 |  |                              |                                   |                        |                    | Total   | Employer                                     | Annual Cash Flow Analysis               |                                     |                              |                      |  |
|-------------------------------------|-----------------------------------|---------------------------------|--|------------------------------|-----------------------------------|------------------------|--------------------|---|--|---|-------------------------------------|------------------------------|----------------------|--|
| Fiscal Year<br>Beginning<br>July 1, | Actuarial<br>Accrued<br>Liability | Actuarial<br>Value of<br>Assets | Unfunded<br>Actuarial<br>Accrued Liability | Funded<br>Ratio<br>(3) / (2) | Total<br>Employer<br>Contribution | Member<br>Contribution | Covered<br>Payroll | Employer<br>Contribution as %<br>of Covered Payroll | Actuarial<br>Determined<br>Contribution Rate | Member and<br>Employer<br>Contributions | Benefit<br>Payments<br>and Expenses | Net<br>External<br>Cash Flow | Investment<br>Income |  |
| (1)                                 | (2)                               | (3)                             | (4)  | (5)                          | (6)                               | (7)                    | (8)                | (9)   | (10)   | (11)                                    | (12)                                | (13)                         | (14)                 |  |
|                                     |                                   |                                 |  |                              |                                   |                        |                    |   |  |   |                                     |                              |                      |  |
| 2019                                | \$ 2,733                          | \$ 991                          | \$ 1,742                                   | 36%                          | \$ 165                            | \$ 6\$                 | 1,431              | 11.50%  | 10.65%                                       | \$ 171                                  | \$ (133) \$                         | 5 38                         | \$ 63                |  |
| 2020                                | 2,808                             | 1,090                           | 1,718                                      | 39%                          | 164                               | 6                      | 1,421              | 11.53%  | 11.53%                                       | 170                                     | (137)                               | 33                           | 70                   |  |
| 2021                                | 2,882                             | 1,201                           | 1,681                                      | 42%                          | 163                               | 7                      | 1,415              | 11.53%  | 11.48%                                       | 170                                     | (145)                               | 25                           | 76                   |  |
| 2022                                | 2,951                             | 1,303                           | 1,648                                      | 44%                          | 160                               | 7                      | 1,410              | 11.32%  | 11.32%                                       | 167                                     | (153)                               | 14                           | 82                   |  |
| 2023                                | 3,015                             | 1,397                           | 1,618                                      | 46%                          | 159                               | 8                      | 1,406              | 11.32%  | 11.23%                                       | 167                                     | (161)                               | 6                            | 87                   |  |
| 2024                                | 3,072                             | 1,490                           | 1,582                                      | 49%                          | 156                               | 8                      | 1,402              | 11.13%  | 11.13%                                       | 164                                     | (170)                               | (6)                          | 93                   |  |
| 2025                                | 3,123                             | 1,577                           | 1,546                                      | 50%                          | 156                               | 9                      | 1,399              | 11.13%  | 11.02%                                       | 165                                     | (180)                               | (15)                         | 98                   |  |
| 2026                                | 3,165                             | 1,660                           | 1,505                                      | 52%                          | 152                               | 9                      | 1,396              | 10.89%  | 10.89%                                       | 161                                     | (189)                               | (28)                         | 103                  |  |
| 2027                                | 3,200                             | 1,735                           | 1,465                                      | 54%                          | 152                               | 10                     | 1,393              | 10.89%  | 10.77%                                       | 162                                     | (199)                               | (37)                         | 107                  |  |
| 2028                                | 3,224                             | 1,805                           | 1,419                                      | 56%                          | 148                               | 10                     | 1,390              | 10.64%  | 10.64%                                       | 158                                     | (208)                               | (50)                         | 111                  |  |
| 2029                                | 3,239                             | 1,866                           | 1,373                                      | 58%                          | 148                               | 11                     | 1,388              | 10.64%  | 10.52%                                       | 159                                     | (217)                               | (58)                         | 115                  |  |
| 2030                                | 3,245                             | 1,923                           | 1,322                                      | 59%                          | 144                               | 11                     | 1,387              | 10.38%  | 10.38%                                       | 155                                     | (224)                               | (69)                         | 118                  |  |
| 2031                                | 3,244                             | 1,972                           | 1,272                                      | 61%                          | 144                               | 11                     | 1,387              | 10.38%  | 10.27%                                       | 155                                     | (229)                               | (74)                         | 121                  |  |
| 2032                                | 3,235                             | 2,020                           | 1,215                                      | 62%                          | 141                               | 12                     | 1,387              | 10.15%  | 10.15%                                       | 153                                     | (233)                               | (80)                         | 124                  |  |
| 2033                                | 3,221                             | 2,063                           | 1,158                                      | 64%                          | 141                               | 12                     | 1,388              | 10.15%  | 10.08%                                       | 153                                     | (236)                               | (83)                         | 126                  |  |
| 2034                                | 3,203                             | 2,106                           | 1,097                                      | 66%                          | 139                               | 13                     | 1,389              | 9.98%   | 9.98%  | 152                                     | (238)                               | (86)                         | 129                  |  |
| 2035                                | 3,180                             | 2,149                           | 1,031                                      | 68%                          | 139                               | 13                     | 1,391              | 9.98%   | 9.91%  | 152                                     | (238)                               | (86)                         | 132                  |  |
| 2036                                | 3,156                             | 2,194                           | 962  | 70%                          | 137                               | 13                     | 1,395              | 9.83%   | 9.83%  | 150                                     | (236)                               | (86)                         | 134                  |  |
| 2037                                | 3,132                             | 2,243                           | 889  | 72%                          | 138                               | 13                     | 1,401              | 9.83%   | 9.75%  | 151                                     | (234)                               | (83)                         | 138                  |  |
| 2038                                | 3,108                             | 2,297                           | 811  | 74%                          | 136                               | 14                     | 1,407              | 9.66%   | 9.66%  | 150                                     | (232)                               | (82)                         | 141                  |  |
| 2039                                | 3,085                             | 2,355                           | 730  | 76%                          | 137                               | 14                     | 1,414              | 9.66%   | 9.58%  | 151                                     | (229)                               | (78)                         | 145                  |  |
| 2040                                | 3,063                             | 2,421                           | 642  | 79%                          | 135                               | 14                     | 1,421              | 9.49%   | 9.49%  | 149                                     | (226)                               | (77)                         | 149                  |  |
| 2041                                | 3,043                             | 2,492                           | 551  | 82%                          | 135                               | 14                     | 1,427              | 9.49%   | 9.43%  | 149                                     | (223)                               | (74)                         | 153                  |  |
| 2042                                | 3,024                             | 2,573                           | 451  | 85%                          | 134                               | 14                     | 1,433              | 9.33%   | 9.33%  | 148                                     | (219)                               | (71)                         | 159                  |  |
| 2043                                | 3,009                             | 2,660                           | 349  | 88%                          | 134                               | 14                     | 1,438              | 9.33%   | 9.29%  | 148                                     | (216)                               | (68)                         | 164                  |  |
| 2044                                | 2,995                             | 2,756                           | 239  | 92%                          | 133                               | 14                     | 1,443              | 9.22%   | 9.22%  | 147                                     | (214)                               | (67)                         | 170                  |  |
| 2045                                | 2,983                             | 2,860                           | 123  | 96%                          | 133                               | 14                     | 1,447              | 9.22%   | 9.17%  | 147                                     | (212)                               | (65)                         | 177                  |  |
| 2046                                | 2,971                             | 2,971                           | -  | 100%                         | 6                                 | 14                     | 1,451              | 0.38%   | 0.38%  | 20                                      | (212)                               | (192)                        | 180                  |  |
| 2047                                | 2,960                             | 2,960                           | -  | 100%                         | 6                                 | 15                     | 1,455              | 0.38%   | 0.38%  | 21                                      | (212)                               | (191)                        | 179                  |  |
| 2048                                | 2,947                             | 2,947                           | -  | 100%                         | 5                                 | 15                     | 1,459              | 0.37%   | 0.37%  | 20                                      | (212)                               | (192)                        | 178                  |  |

Notes and assumptions:

The projection is based on the same methods and assumptions as the projection under the Current Plan (Exhibit 4-2), except that the funding period is 27 years at June 30, 2019 (rather than the current funding period of 24 years at June 30, 2019).