

April 4, 2016

VIA EMAIL

Ms. Susy Pita, Plan Administrator
21629 Stirling Pass
Leesburg, FL 34748

Re: City of Sanford Police Officers' Retirement System
Senate Bill 534 (Section 112.664, Florida Statutes) Compliance

Dear Susy:

Please find enclosed the annual disclosures that satisfy the October 1, 2015 financial reporting requirements made under Section 112.664.

Our office will submit this information electronically to the Department of Management Services. However, it is important for you to be aware that this report must also be made available on the Plan or Plan Sponsor's website, if such website exists. A deadline for this website publication is not made clear in the law.

In addition to the enclosed report, the Plan or Plan Sponsor's website must provide a link to the Division of Retirement's Actuarial Summary Fact Sheet for the Plan, and also report the previous five years' assumed and actual rates of return, along with their respective asset allocations. The Board should contact its Investment Consultant for this information.

If there are any questions, concerns, or comments about any of the items contained in this report, please feel free to contact me.

Respectfully submitted,

Foster & Foster, Inc.

By: 

Patrick T. Donlan, EA, ASA, MAAA
Enrolled Actuary #14-6595

PTD/lke
Enclosures

cc via email: Scott R. Christiansen, Board Attorney

CITY OF SANFORD
POLICE OFFICERS' RETIREMENT SYSTEM

SECTION 112.664, FLORIDA STATUTES
COMPLIANCE

With respect to the reporting standards for defined benefit retirement plans or systems contained in Section 112.664(1), F.S., the actuarial disclosures required under this section were prepared and completed by me or under my direct supervision and I acknowledge responsibility for the results. To the best of my knowledge, the results are complete and accurate, and in my opinion, meet the requirements of Section 112.664(1), Florida Statutes, and Rule 60T-1.0035, Florida Administrative Code.

By: Patrick T. Donlan Date: 4/4/2016

Patrick T. Donlan, EA, ASA, MAAA
Enrolled Actuary #14-6595



When reviewing the following schedules, please note the following:

- 1) The purpose of producing this report is solely to satisfy the requirements set forth by Section 112.664, Florida Statutes, and is mandatory for every Florida public pension fund, excluding the Florida Retirement System (FRS).
- 2) None of the schedules shown have any impact on the funding requirements of the Plan. These schedules are for statutory compliance purposes only.
- 3) In the schedules that follow, the columns labeled “ACTUAL” represent the final recorded GASB 67/68 results. The columns labeled “HYPOTHETICAL” illustrate what the results would have been if different assumptions were used.
- 4) It is our opinion that the Plan’s actual assumptions utilized in the October 1, 2015 Actuarial Valuation Report, as adopted by the Board of Trustees, are reasonable individually and in the aggregate, and represent our best estimate of future Plan experience.
- 5) The “Number of Years Expected Benefit Payments Sustained” calculated in Section II: Asset Sustainability should not be interpreted as the number of years the Plan has left until it is insolvent. This calculation is required by 112.664, Florida Statutes, but the numeric result is irrelevant, since in its calculation we are to assume there will be no further contributions to the Fund. As long as the Actuarially Determined Contribution is made each year the Plan will never become insolvent.

| | ACTUAL | | HYPOTHETICAL | |
|---|---|---|---|---|
| | 7.75% RP-2000 Static 9/30/2015 | 7.75% RP-2000 Generational 9/30/2015 | 5.75% RP-2000 Generational 9/30/2015 | 9.75% RP-2000 Generational 9/30/2015 |
| <u>GASB 67: Schedule of Changes in Net Pension Liability</u> | | | | |
| <u>Total Pension Liability</u> | | | | |
| Service Cost | 1,138,827 | 1,183,867 | 1,810,611 | 808,073 |
| Interest | 3,119,988 | 3,242,159 | 3,091,677 | 3,274,438 |
| Changes of Benefit Terms | - | - | - | - |
| Differences Between Expected and Actual Experience | (596,272) | (680,460) | (862,422) | (538,436) |
| Changes of Assumptions | - | - | - | - |
| Benefit Payments, Including Refunds of Employee Contributions | (3,192,534) | (3,192,534) | (3,192,534) | (3,192,534) |
| Net Change in Total Pension Liability | 633,256 | 716,279 | 1,010,579 | 514,788 |
| Total Pension Liability - Beginning | 41,987,943 | 43,519,301 | 54,826,538 | 35,644,768 |
| Total Pension Liability - Ending (a) | <u>\$ 42,621,199</u> | <u>\$ 44,235,580</u> | <u>\$ 55,837,117</u> | <u>\$ 36,159,556</u> |
| <u>Plan Fiduciary Net Position</u> | | | | |
| Contributions - Employer | 1,902,187 | 1,902,187 | 1,902,187 | 1,902,187 |
| Contributions - State | 339,596 | 339,596 | 339,596 | 339,596 |
| Contributions - Employee | 296,080 | 296,080 | 296,080 | 296,080 |
| Net Investment Income | 538,151 | 538,151 | 538,151 | 538,151 |
| Benefit Payments, Including Refunds of Employee Contributions | (3,192,534) | (3,192,534) | (3,192,534) | (3,192,534) |
| Administrative Expenses | (79,842) | (79,842) | (79,842) | (79,842) |
| Net Change in Plan Fiduciary Net Position | (196,362) | (196,362) | (196,362) | (196,362) |
| Plan Fiduciary Net Position - Beginning | 38,981,579 | 38,981,579 | 38,981,579 | 38,981,579 |
| Plan Fiduciary Net Position - Ending (b) | <u>\$ 38,785,217</u> | <u>\$ 38,785,217</u> | <u>\$ 38,785,217</u> | <u>\$ 38,785,217</u> |
| Net Pension Liability - Ending (a) - (b) | <u>\$ 3,835,982</u> | <u>\$ 5,450,363</u> | <u>\$ 17,051,900</u> | <u>\$ (2,625,661)</u> |

GASB 68: Pension Expense for Fiscal Year Ending September 30, 2015

| | | | | |
|-----------------|---------------------|---------------------|---------------------|-------------------|
| Pension Expense | <u>\$ 1,441,480</u> | <u>\$ 1,594,659</u> | <u>\$ 2,658,423</u> | <u>\$ 656,986</u> |
|-----------------|---------------------|---------------------|---------------------|-------------------|

PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Table 1
Plan Assumptions: 7.75% and RP-2000 Static Mortality

| Fiscal Year Beginning 10/1 | Projected Beginning Fiduciary Net Position | Projected Total Contributions | Projected Benefit Payments* | Projected Administrative Expense | Projected Investment Earnings | Projected Ending Fiduciary Net Position |
|----------------------------|--|-------------------------------|-----------------------------|----------------------------------|-------------------------------|---|
| 2015 | 38,785,217 | - | 2,621,349 | - | 2,904,277 | 39,068,145 |
| 2016 | 39,068,145 | - | 2,392,915 | - | 2,935,056 | 39,610,286 |
| 2017 | 39,610,286 | - | 2,441,634 | - | 2,975,184 | 40,143,836 |
| 2018 | 40,143,836 | - | 2,616,394 | - | 3,009,762 | 40,537,204 |
| 2019 | 40,537,204 | - | 2,704,080 | - | 3,036,850 | 40,869,974 |
| 2020 | 40,869,974 | - | 2,762,367 | - | 3,060,381 | 41,167,988 |
| 2021 | 41,167,988 | - | 2,858,878 | - | 3,079,738 | 41,388,848 |
| 2022 | 41,388,848 | - | 3,011,459 | - | 3,090,942 | 41,468,331 |
| 2023 | 41,468,331 | - | 3,055,332 | - | 3,095,402 | 41,508,401 |
| 2024 | 41,508,401 | - | 3,111,993 | - | 3,096,311 | 41,492,719 |
| 2025 | 41,492,719 | - | 3,141,975 | - | 3,093,934 | 41,444,678 |
| 2026 | 41,444,678 | - | 3,199,663 | - | 3,087,976 | 41,332,991 |
| 2027 | 41,332,991 | - | 3,220,451 | - | 3,078,514 | 41,191,054 |
| 2028 | 41,191,054 | - | 3,222,582 | - | 3,067,432 | 41,035,904 |
| 2029 | 41,035,904 | - | 3,218,251 | - | 3,055,575 | 40,873,228 |
| 2030 | 40,873,228 | - | 3,259,875 | - | 3,041,355 | 40,654,708 |
| 2031 | 40,654,708 | - | 3,264,653 | - | 3,024,235 | 40,414,290 |
| 2032 | 40,414,290 | - | 3,249,736 | - | 3,006,180 | 40,170,734 |
| 2033 | 40,170,734 | - | 3,221,662 | - | 2,988,392 | 39,937,464 |
| 2034 | 39,937,464 | - | 3,168,604 | - | 2,972,370 | 39,741,230 |
| 2035 | 39,741,230 | - | 3,097,528 | - | 2,959,916 | 39,603,618 |
| 2036 | 39,603,618 | - | 3,021,125 | - | 2,952,212 | 39,534,705 |
| 2037 | 39,534,705 | - | 2,940,218 | - | 2,950,006 | 39,544,493 |
| 2038 | 39,544,493 | - | 2,857,296 | - | 2,953,978 | 39,641,175 |
| 2039 | 39,641,175 | - | 2,766,657 | - | 2,964,983 | 39,839,501 |
| 2040 | 39,839,501 | - | 2,665,152 | - | 2,984,287 | 40,158,636 |
| 2041 | 40,158,636 | - | 2,557,879 | - | 3,013,176 | 40,613,933 |
| 2042 | 40,613,933 | - | 2,445,944 | - | 3,052,799 | 41,220,788 |
| 2043 | 41,220,788 | - | 2,331,484 | - | 3,104,266 | 41,993,570 |
| 2044 | 41,993,570 | - | 2,215,588 | - | 3,168,648 | 42,946,630 |
| 2045 | 42,946,630 | - | 2,098,458 | - | 3,247,049 | 44,095,221 |
| 2046 | 44,095,221 | - | 1,980,299 | - | 3,340,643 | 45,455,565 |
| 2047 | 45,455,565 | - | 1,861,837 | - | 3,450,660 | 47,044,388 |
| 2048 | 47,044,388 | - | 1,743,535 | - | 3,578,378 | 48,879,231 |
| 2049 | 48,879,231 | - | 1,626,444 | - | 3,725,116 | 50,977,903 |
| 2050 | 50,977,903 | - | 1,511,255 | - | 3,892,226 | 53,358,874 |
| 2051 | 53,358,874 | - | 1,398,739 | - | 4,081,112 | 56,041,247 |
| 2052 | 56,041,247 | - | 1,289,413 | - | 4,293,232 | 59,045,066 |
| 2053 | 59,045,066 | - | 1,183,792 | - | 4,530,121 | 62,391,395 |
| 2054 | 62,391,395 | - | 1,082,398 | - | 4,793,390 | 66,102,387 |
| 2055 | 66,102,387 | - | 985,642 | - | 5,084,741 | 70,201,486 |
| 2056 | 70,201,486 | - | 893,831 | - | 5,405,979 | 74,713,634 |
| 2057 | 74,713,634 | - | 807,184 | - | 5,759,028 | 79,665,478 |
| 2058 | 79,665,478 | - | 725,849 | - | 6,145,948 | 85,085,577 |
| 2059 | 85,085,577 | - | 649,869 | - | 6,568,950 | 91,004,658 |
| 2060 | 91,004,658 | - | 579,208 | - | 7,030,417 | 97,455,867 |
| 2061 | 97,455,867 | - | 513,774 | - | 7,532,921 | 104,475,014 |
| 2062 | 104,475,014 | - | 453,432 | - | 8,079,243 | 112,100,825 |
| 2063 | 112,100,825 | - | 398,015 | - | 8,672,391 | 120,375,201 |
| 2064 | 120,375,201 | - | 347,337 | - | 9,315,619 | 129,343,483 |
| 2065 | 129,343,483 | - | 301,215 | - | 10,012,448 | 139,054,716 |
| 2066 | 139,054,716 | - | 259,466 | - | 10,766,686 | 149,561,936 |

PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Table 1
Plan Assumptions: 7.75% and RP-2000 Static Mortality

| Fiscal Year Beginning 10/1 | Projected Beginning Fiduciary Net Position | Projected Total Contributions | Projected Benefit Payments* | Projected Administrative Expense | Projected Investment Earnings | Projected Ending Fiduciary Net Position |
|----------------------------|--|-------------------------------|-----------------------------|----------------------------------|-------------------------------|---|
| 2067 | 149,561,936 | - | 221,891 | - | 11,582,452 | 160,922,497 |
| 2068 | 160,922,497 | - | 188,279 | - | 12,464,198 | 173,198,416 |
| 2069 | 173,198,416 | - | 158,435 | - | 13,416,738 | 186,456,719 |
| 2070 | 186,456,719 | - | 132,161 | - | 14,445,274 | 200,769,832 |
| 2071 | 200,769,832 | - | 109,240 | - | 15,555,429 | 216,216,021 |
| 2072 | 216,216,021 | - | 89,430 | - | 16,753,276 | 232,879,867 |
| 2073 | 232,879,867 | - | 72,481 | - | 18,045,381 | 250,852,767 |
| 2074 | 250,852,767 | - | 58,137 | - | 19,438,837 | 270,233,467 |
| 2075 | 270,233,467 | - | 46,129 | - | 20,941,306 | 291,128,644 |
| 2076 | 291,128,644 | - | 36,193 | - | 22,561,067 | 313,653,518 |
| 2077 | 313,653,518 | - | 28,072 | - | 24,307,060 | 337,932,506 |
| 2078 | 337,932,506 | - | 21,514 | - | 26,188,936 | 364,099,928 |
| 2079 | 364,099,928 | - | 16,288 | - | 28,217,113 | 392,300,753 |
| 2080 | 392,300,753 | - | 12,177 | - | 30,402,836 | 422,691,412 |
| 2081 | 422,691,412 | - | 8,990 | - | 32,758,236 | 455,440,658 |
| 2082 | 455,440,658 | - | 6,554 | - | 35,296,397 | 490,730,501 |
| 2083 | 490,730,501 | - | 4,720 | - | 38,031,431 | 528,757,212 |
| 2084 | 528,757,212 | - | 3,358 | - | 40,978,554 | 569,732,408 |
| 2085 | 569,732,408 | - | 2,361 | - | 44,154,170 | 613,884,217 |
| 2086 | 613,884,217 | - | 1,641 | - | 47,575,963 | 661,458,539 |
| 2087 | 661,458,539 | - | 1,128 | - | 51,262,993 | 712,720,404 |
| 2088 | 712,720,404 | - | 768 | - | 55,235,802 | 767,955,438 |
| 2089 | 767,955,438 | - | 519 | - | 59,516,526 | 827,471,445 |
| 2090 | 827,471,445 | - | 348 | - | 64,129,024 | 891,600,121 |
| 2091 | 891,600,121 | - | 232 | - | 69,099,000 | 960,698,889 |
| 2092 | 960,698,889 | - | 154 | - | 74,454,158 | 1,035,152,893 |
| 2093 | 1,035,152,893 | - | 101 | - | 80,224,345 | 1,115,377,137 |
| 2094 | 1,115,377,137 | - | 66 | - | 86,441,726 | 1,201,818,797 |
| 2095 | 1,201,818,797 | - | 43 | - | 93,140,955 | 1,294,959,709 |
| 2096 | 1,294,959,709 | - | 28 | - | 100,359,376 | 1,395,319,057 |
| 2097 | 1,395,319,057 | - | 18 | - | 108,137,226 | 1,503,456,265 |
| 2098 | 1,503,456,265 | - | 11 | - | 116,517,860 | 1,619,974,114 |
| 2099 | 1,619,974,114 | - | 7 | - | 125,547,994 | 1,745,522,101 |
| 2100 | 1,745,522,101 | - | 4 | - | 135,277,963 | 1,880,800,060 |
| 2101 | 1,880,800,060 | - | 3 | - | 145,762,005 | 2,026,562,062 |
| 2102 | 2,026,562,062 | - | 2 | - | 157,058,560 | 2,183,620,620 |
| 2103 | 2,183,620,620 | - | 1 | - | 169,230,598 | 2,352,851,217 |
| 2104 | 2,352,851,217 | - | 1 | - | 182,345,969 | 2,535,197,185 |
| 2105 | 2,535,197,185 | - | - | - | 196,477,782 | 2,731,674,967 |

*All DROP Balances paid in 2015.

Number of Years Expected Benefit Payments Sustained: 999.99

This projection assumes no further contributions, assumes no further benefit accruals, and assumes Market Value of Assets earn 7.75% interest.

It is important to note that as long as the Actuarially Determined Contribution is made each year, the Plan will never become insolvent. Furthermore, State and local laws mandate that the Actuarially Determined Contribution be made each year.

PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Table 2
Hypothetical Assumptions: 7.75% and RP-2000 Generational Mortality

| Fiscal Year Beginning 10/1 | Projected Beginning Fiduciary Net Position | Projected Total Contributions | Projected Benefit Payments* | Projected Administrative Expense | Projected Investment Earnings | Projected Ending Fiduciary Net Position |
|----------------------------|--|-------------------------------|-----------------------------|----------------------------------|-------------------------------|---|
| 2015 | 38,785,217 | - | 2,622,457 | - | 2,904,234 | 39,066,994 |
| 2016 | 39,066,994 | - | 2,397,278 | - | 2,934,798 | 39,604,514 |
| 2017 | 39,604,514 | - | 2,449,287 | - | 2,974,440 | 40,129,667 |
| 2018 | 40,129,667 | - | 2,628,068 | - | 3,008,212 | 40,509,811 |
| 2019 | 40,509,811 | - | 2,719,943 | - | 3,034,113 | 40,823,981 |
| 2020 | 40,823,981 | - | 2,783,071 | - | 3,056,015 | 41,096,925 |
| 2021 | 41,096,925 | - | 2,884,389 | - | 3,073,242 | 41,285,778 |
| 2022 | 41,285,778 | - | 3,043,190 | - | 3,081,724 | 41,324,312 |
| 2023 | 41,324,312 | - | 3,093,104 | - | 3,082,776 | 41,313,984 |
| 2024 | 41,313,984 | - | 3,156,012 | - | 3,079,538 | 41,237,510 |
| 2025 | 41,237,510 | - | 3,193,644 | - | 3,072,153 | 41,116,019 |
| 2026 | 41,116,019 | - | 3,261,318 | - | 3,060,115 | 40,914,816 |
| 2027 | 40,914,816 | - | 3,291,744 | - | 3,043,343 | 40,666,415 |
| 2028 | 40,666,415 | - | 3,306,432 | - | 3,023,523 | 40,383,506 |
| 2029 | 40,383,506 | - | 3,314,212 | - | 3,001,296 | 40,070,590 |
| 2030 | 40,070,590 | - | 3,368,613 | - | 2,974,937 | 39,676,914 |
| 2031 | 39,676,914 | - | 3,387,258 | - | 2,943,705 | 39,233,361 |
| 2032 | 39,233,361 | - | 3,389,119 | - | 2,909,257 | 38,753,499 |
| 2033 | 38,753,499 | - | 3,376,136 | - | 2,872,571 | 38,249,934 |
| 2034 | 38,249,934 | - | 3,339,021 | - | 2,834,983 | 37,745,896 |
| 2035 | 37,745,896 | - | 3,284,700 | - | 2,798,025 | 37,259,221 |
| 2036 | 37,259,221 | - | 3,226,165 | - | 2,762,576 | 36,795,632 |
| 2037 | 36,795,632 | - | 3,163,585 | - | 2,729,073 | 36,361,120 |
| 2038 | 36,361,120 | - | 3,099,341 | - | 2,697,887 | 35,959,666 |
| 2039 | 35,959,666 | - | 3,027,290 | - | 2,669,567 | 35,601,943 |
| 2040 | 35,601,943 | - | 2,945,161 | - | 2,645,026 | 35,301,808 |
| 2041 | 35,301,808 | - | 2,856,187 | - | 2,625,213 | 35,070,834 |
| 2042 | 35,070,834 | - | 2,761,351 | - | 2,610,987 | 34,920,470 |
| 2043 | 34,920,470 | - | 2,662,988 | - | 2,603,146 | 34,860,628 |
| 2044 | 34,860,628 | - | 2,561,553 | - | 2,602,438 | 34,901,513 |
| 2045 | 34,901,513 | - | 2,456,952 | - | 2,609,660 | 35,054,221 |
| 2046 | 35,054,221 | - | 2,349,549 | - | 2,625,657 | 35,330,329 |
| 2047 | 35,330,329 | - | 2,239,564 | - | 2,651,317 | 35,742,082 |
| 2048 | 35,742,082 | - | 2,127,124 | - | 2,687,585 | 36,302,543 |
| 2049 | 36,302,543 | - | 2,013,186 | - | 2,735,436 | 37,024,793 |
| 2050 | 37,024,793 | - | 1,898,576 | - | 2,795,852 | 37,922,069 |
| 2051 | 37,922,069 | - | 1,784,081 | - | 2,869,827 | 39,007,815 |
| 2052 | 39,007,815 | - | 1,670,380 | - | 2,958,378 | 40,295,813 |
| 2053 | 40,295,813 | - | 1,558,099 | - | 3,062,549 | 41,800,263 |
| 2054 | 41,800,263 | - | 1,448,088 | - | 3,183,407 | 43,535,582 |
| 2055 | 43,535,582 | - | 1,340,941 | - | 3,322,046 | 45,516,687 |
| 2056 | 45,516,687 | - | 1,237,218 | - | 3,479,601 | 47,759,070 |
| 2057 | 47,759,070 | - | 1,137,414 | - | 3,657,253 | 50,278,909 |
| 2058 | 50,278,909 | - | 1,041,779 | - | 3,856,247 | 53,093,377 |
| 2059 | 53,093,377 | - | 950,450 | - | 4,077,907 | 56,220,834 |
| 2060 | 56,220,834 | - | 863,871 | - | 4,323,640 | 59,680,603 |
| 2061 | 59,680,603 | - | 782,196 | - | 4,594,937 | 63,493,344 |
| 2062 | 63,493,344 | - | 705,263 | - | 4,893,405 | 67,681,486 |
| 2063 | 67,681,486 | - | 633,179 | - | 5,220,779 | 72,269,086 |
| 2064 | 72,269,086 | - | 565,796 | - | 5,578,930 | 77,282,220 |
| 2065 | 77,282,220 | - | 503,069 | - | 5,969,878 | 82,749,029 |
| 2066 | 82,749,029 | - | 445,008 | - | 6,395,806 | 88,699,827 |

PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Table 2
Hypothetical Assumptions: 7.75% and RP-2000 Generational Mortality

| Fiscal Year Beginning 10/1 | Projected Beginning Fiduciary Net Position | Projected Total Contributions | Projected Benefit Payments* | Projected Administrative Expense | Projected Investment Earnings | Projected Ending Fiduciary Net Position |
|----------------------------|--|-------------------------------|-----------------------------|----------------------------------|-------------------------------|---|
| 2067 | 88,699,827 | - | 391,349 | - | 6,859,072 | 95,167,550 |
| 2068 | 95,167,550 | - | 341,932 | - | 7,362,235 | 102,187,853 |
| 2069 | 102,187,853 | - | 296,751 | - | 7,908,060 | 109,799,162 |
| 2070 | 109,799,162 | - | 255,621 | - | 8,499,530 | 118,043,071 |
| 2071 | 118,043,071 | - | 218,498 | - | 9,139,871 | 126,964,444 |
| 2072 | 126,964,444 | - | 185,205 | - | 9,832,568 | 136,611,807 |
| 2073 | 136,611,807 | - | 155,469 | - | 10,581,391 | 147,037,729 |
| 2074 | 147,037,729 | - | 129,246 | - | 11,390,416 | 158,298,899 |
| 2075 | 158,298,899 | - | 106,328 | - | 12,264,044 | 170,456,615 |
| 2076 | 170,456,615 | - | 86,524 | - | 13,207,035 | 183,577,126 |
| 2077 | 183,577,126 | - | 69,571 | - | 14,224,531 | 197,732,086 |
| 2078 | 197,732,086 | - | 55,215 | - | 15,322,097 | 212,998,968 |
| 2079 | 212,998,968 | - | 43,291 | - | 16,505,742 | 229,461,419 |
| 2080 | 229,461,419 | - | 33,493 | - | 17,781,962 | 247,209,888 |
| 2081 | 247,209,888 | - | 25,527 | - | 19,157,777 | 266,342,138 |
| 2082 | 266,342,138 | - | 19,192 | - | 20,640,772 | 286,963,718 |
| 2083 | 286,963,718 | - | 14,218 | - | 22,239,137 | 309,188,637 |
| 2084 | 309,188,637 | - | 10,373 | - | 23,961,717 | 333,139,981 |
| 2085 | 333,139,981 | - | 7,457 | - | 25,818,060 | 358,950,584 |
| 2086 | 358,950,584 | - | 5,277 | - | 27,818,466 | 386,763,773 |
| 2087 | 386,763,773 | - | 3,681 | - | 29,974,050 | 416,734,142 |
| 2088 | 416,734,142 | - | 2,528 | - | 32,296,798 | 449,028,412 |
| 2089 | 449,028,412 | - | 1,712 | - | 34,799,636 | 483,826,336 |
| 2090 | 483,826,336 | - | 1,147 | - | 37,496,497 | 521,321,686 |
| 2091 | 521,321,686 | - | 758 | - | 40,402,401 | 561,723,329 |
| 2092 | 561,723,329 | - | 492 | - | 43,533,539 | 605,256,376 |
| 2093 | 605,256,376 | - | 318 | - | 46,907,357 | 652,163,415 |
| 2094 | 652,163,415 | - | 204 | - | 50,542,657 | 702,705,868 |
| 2095 | 702,705,868 | - | 129 | - | 54,459,700 | 757,165,439 |
| 2096 | 757,165,439 | - | 82 | - | 58,680,318 | 815,845,675 |
| 2097 | 815,845,675 | - | 51 | - | 63,228,038 | 879,073,662 |
| 2098 | 879,073,662 | - | 32 | - | 68,128,208 | 947,201,838 |
| 2099 | 947,201,838 | - | 20 | - | 73,408,142 | 1,020,609,960 |
| 2100 | 1,020,609,960 | - | 12 | - | 79,097,271 | 1,099,707,219 |
| 2101 | 1,099,707,219 | - | 7 | - | 85,227,309 | 1,184,934,521 |
| 2102 | 1,184,934,521 | - | 4 | - | 91,832,425 | 1,276,766,942 |
| 2103 | 1,276,766,942 | - | 2 | - | 98,949,438 | 1,375,716,378 |
| 2104 | 1,375,716,378 | - | 1 | - | 106,618,019 | 1,482,334,396 |
| 2105 | 1,482,334,396 | - | 1 | - | 114,880,916 | 1,597,215,311 |
| 2106 | 1,597,215,311 | - | - | - | 123,784,187 | 1,720,999,498 |

*All DROP Balances paid in 2015.

Number of Years Expected Benefit Payments Sustained: 999.99

This projection assumes no further contributions, assumes no further benefit accruals, and assumes Market Value of Assets earn 7.75% interest.

It is important to note that as long as the Actuarially Determined Contribution is made each year, the Plan will never become insolvent. Furthermore, State and local laws mandate that the Actuarially Determined Contribution be made each year.

PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Table 3
Hypothetical Assumptions: 5.75% and RP-2000 Generational Mortality

| Fiscal Year Beginning 10/1 | Projected Beginning Fiduciary Net Position | Projected Total Contributions | Projected Benefit Payments* | Projected Administrative Expense | Projected Investment Earnings | Projected Ending Fiduciary Net Position |
|----------------------------|--|-------------------------------|-----------------------------|----------------------------------|-------------------------------|---|
| 2015 | 38,785,217 | - | 2,622,457 | - | 2,154,754 | 38,317,514 |
| 2016 | 38,317,514 | - | 2,397,278 | - | 2,134,335 | 38,054,571 |
| 2017 | 38,054,571 | - | 2,449,287 | - | 2,117,721 | 37,723,005 |
| 2018 | 37,723,005 | - | 2,628,068 | - | 2,093,516 | 37,188,453 |
| 2019 | 37,188,453 | - | 2,719,943 | - | 2,060,138 | 36,528,648 |
| 2020 | 36,528,648 | - | 2,783,071 | - | 2,020,384 | 35,765,961 |
| 2021 | 35,765,961 | - | 2,884,389 | - | 1,973,617 | 34,855,189 |
| 2022 | 34,855,189 | - | 3,043,190 | - | 1,916,682 | 33,728,681 |
| 2023 | 33,728,681 | - | 3,093,104 | - | 1,850,472 | 32,486,049 |
| 2024 | 32,486,049 | - | 3,156,012 | - | 1,777,212 | 31,107,249 |
| 2025 | 31,107,249 | - | 3,193,644 | - | 1,696,850 | 29,610,455 |
| 2026 | 29,610,455 | - | 3,261,318 | - | 1,608,838 | 27,957,975 |
| 2027 | 27,957,975 | - | 3,291,744 | - | 1,512,946 | 26,179,177 |
| 2028 | 26,179,177 | - | 3,306,432 | - | 1,410,243 | 24,282,988 |
| 2029 | 24,282,988 | - | 3,314,212 | - | 1,300,988 | 22,269,764 |
| 2030 | 22,269,764 | - | 3,368,613 | - | 1,183,664 | 20,084,815 |
| 2031 | 20,084,815 | - | 3,387,258 | - | 1,057,493 | 17,755,050 |
| 2032 | 17,755,050 | - | 3,389,119 | - | 923,478 | 15,289,409 |
| 2033 | 15,289,409 | - | 3,376,136 | - | 782,077 | 12,695,350 |
| 2034 | 12,695,350 | - | 3,339,021 | - | 633,986 | 9,990,315 |
| 2035 | 9,990,315 | - | 3,284,700 | - | 480,008 | 7,185,623 |
| 2036 | 7,185,623 | - | 3,226,165 | - | 320,421 | 4,279,879 |
| 2037 | 4,279,879 | - | 3,163,585 | - | 155,140 | 1,271,434 |
| 2038 | 1,271,434 | - | 3,099,341 | - | - | - |

*All DROP Balances paid in 2015.

Number of Years Expected Benefit Payments Sustained: 23.41

This projection assumes no further contributions, assumes no further benefit accruals, and assumes Market Value of Assets earn 5.75% interest.

It is important to note that as long as the Actuarially Determined Contribution is made each year, the Plan will never become insolvent. Furthermore, State and local laws mandate that the Actuarially Determined Contribution be made each year.

PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Table 4
Hypothetical Assumptions: 9.75% and RP-2000 Generational Mortality

| Fiscal Year Beginning 10/1 | Projected Beginning Fiduciary Net Position | Projected Total Contributions | Projected Benefit Payments* | Projected Administrative Expense | Projected Investment Earnings | Projected Ending Fiduciary Net Position |
|----------------------------|--|-------------------------------|-----------------------------|----------------------------------|-------------------------------|---|
| 2015 | 38,785,217 | - | 2,622,457 | - | 3,653,714 | 39,816,474 |
| 2016 | 39,816,474 | - | 2,397,278 | - | 3,765,239 | 41,184,435 |
| 2017 | 41,184,435 | - | 2,449,287 | - | 3,896,080 | 42,631,228 |
| 2018 | 42,631,228 | - | 2,628,068 | - | 4,028,426 | 44,031,586 |
| 2019 | 44,031,586 | - | 2,719,943 | - | 4,160,482 | 45,472,125 |
| 2020 | 45,472,125 | - | 2,783,071 | - | 4,297,857 | 46,986,911 |
| 2021 | 46,986,911 | - | 2,884,389 | - | 4,440,610 | 48,543,132 |
| 2022 | 48,543,132 | - | 3,043,190 | - | 4,584,600 | 50,084,542 |
| 2023 | 50,084,542 | - | 3,093,104 | - | 4,732,454 | 51,723,892 |
| 2024 | 51,723,892 | - | 3,156,012 | - | 4,889,224 | 53,457,104 |
| 2025 | 53,457,104 | - | 3,193,644 | - | 5,056,377 | 55,319,837 |
| 2026 | 55,319,837 | - | 3,261,318 | - | 5,234,695 | 57,293,214 |
| 2027 | 57,293,214 | - | 3,291,744 | - | 5,425,616 | 59,427,086 |
| 2028 | 59,427,086 | - | 3,306,432 | - | 5,632,952 | 61,753,606 |
| 2029 | 61,753,606 | - | 3,314,212 | - | 5,859,409 | 64,298,803 |
| 2030 | 64,298,803 | - | 3,368,613 | - | 6,104,913 | 67,035,103 |
| 2031 | 67,035,103 | - | 3,387,258 | - | 6,370,794 | 70,018,639 |
| 2032 | 70,018,639 | - | 3,389,119 | - | 6,661,598 | 73,291,118 |
| 2033 | 73,291,118 | - | 3,376,136 | - | 6,981,297 | 76,896,279 |
| 2034 | 76,896,279 | - | 3,339,021 | - | 7,334,610 | 80,891,868 |
| 2035 | 80,891,868 | - | 3,284,700 | - | 7,726,828 | 85,333,996 |
| 2036 | 85,333,996 | - | 3,226,165 | - | 8,162,789 | 90,270,620 |
| 2037 | 90,270,620 | - | 3,163,585 | - | 8,647,161 | 95,754,196 |
| 2038 | 95,754,196 | - | 3,099,341 | - | 9,184,941 | 101,839,796 |
| 2039 | 101,839,796 | - | 3,027,290 | - | 9,781,800 | 108,594,306 |
| 2040 | 108,594,306 | - | 2,945,161 | - | 10,444,368 | 116,093,513 |
| 2041 | 116,093,513 | - | 2,856,187 | - | 11,179,878 | 124,417,204 |
| 2042 | 124,417,204 | - | 2,761,351 | - | 11,996,062 | 133,651,915 |
| 2043 | 133,651,915 | - | 2,662,988 | - | 12,901,241 | 143,890,168 |
| 2044 | 143,890,168 | - | 2,561,553 | - | 13,904,416 | 155,233,031 |
| 2045 | 155,233,031 | - | 2,456,952 | - | 15,015,444 | 167,791,523 |
| 2046 | 167,791,523 | - | 2,349,549 | - | 16,245,133 | 181,687,107 |
| 2047 | 181,687,107 | - | 2,239,564 | - | 17,605,314 | 197,052,857 |
| 2048 | 197,052,857 | - | 2,127,124 | - | 19,108,956 | 214,034,689 |
| 2049 | 214,034,689 | - | 2,013,186 | - | 20,770,239 | 232,791,742 |
| 2050 | 232,791,742 | - | 1,898,576 | - | 22,604,639 | 253,497,805 |
| 2051 | 253,497,805 | - | 1,784,081 | - | 24,629,062 | 276,342,786 |
| 2052 | 276,342,786 | - | 1,670,380 | - | 26,861,991 | 301,534,397 |
| 2053 | 301,534,397 | - | 1,558,099 | - | 29,323,646 | 329,299,944 |
| 2054 | 329,299,944 | - | 1,448,088 | - | 32,036,150 | 359,888,006 |
| 2055 | 359,888,006 | - | 1,340,941 | - | 35,023,710 | 393,570,775 |
| 2056 | 393,570,775 | - | 1,237,218 | - | 38,312,836 | 430,646,393 |
| 2057 | 430,646,393 | - | 1,137,414 | - | 41,932,574 | 471,441,553 |
| 2058 | 471,441,553 | - | 1,041,779 | - | 45,914,765 | 516,314,539 |
| 2059 | 516,314,539 | - | 950,450 | - | 50,294,333 | 565,658,422 |
| 2060 | 565,658,422 | - | 863,871 | - | 55,109,582 | 619,904,133 |
| 2061 | 619,904,133 | - | 782,196 | - | 60,402,521 | 679,524,458 |
| 2062 | 679,524,458 | - | 705,263 | - | 66,219,253 | 745,038,448 |
| 2063 | 745,038,448 | - | 633,179 | - | 72,610,381 | 817,015,650 |
| 2064 | 817,015,650 | - | 565,796 | - | 79,631,443 | 896,081,297 |
| 2065 | 896,081,297 | - | 503,069 | - | 87,343,402 | 982,921,630 |
| 2066 | 982,921,630 | - | 445,008 | - | 95,813,165 | 1,078,289,787 |

PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Table 4
Hypothetical Assumptions: 9.75% and RP-2000 Generational Mortality

| Fiscal Year Beginning 10/1 | Projected Beginning Fiduciary Net Position | Projected Total Contributions | Projected Benefit Payments* | Projected Administrative Expense | Projected Investment Earnings | Projected Ending Fiduciary Net Position |
|----------------------------|--|-------------------------------|-----------------------------|----------------------------------|-------------------------------|---|
| 2067 | 1,078,289,787 | - | 391,349 | - | 105,114,176 | 1,183,012,614 |
| 2068 | 1,183,012,614 | - | 341,932 | - | 115,327,061 | 1,297,997,743 |
| 2069 | 1,297,997,743 | - | 296,751 | - | 126,540,313 | 1,424,241,305 |
| 2070 | 1,424,241,305 | - | 255,621 | - | 138,851,066 | 1,562,836,750 |
| 2071 | 1,562,836,750 | - | 218,498 | - | 152,365,931 | 1,714,984,183 |
| 2072 | 1,714,984,183 | - | 185,205 | - | 167,201,929 | 1,882,000,907 |
| 2073 | 1,882,000,907 | - | 155,469 | - | 183,487,509 | 2,065,332,947 |
| 2074 | 2,065,332,947 | - | 129,246 | - | 201,363,662 | 2,266,567,363 |
| 2075 | 2,266,567,363 | - | 106,328 | - | 220,985,134 | 2,487,446,169 |
| 2076 | 2,487,446,169 | - | 86,524 | - | 242,521,783 | 2,729,881,428 |
| 2077 | 2,729,881,428 | - | 69,571 | - | 266,160,048 | 2,995,971,905 |
| 2078 | 2,995,971,905 | - | 55,215 | - | 292,104,569 | 3,288,021,259 |
| 2079 | 3,288,021,259 | - | 43,291 | - | 320,579,962 | 3,608,557,930 |
| 2080 | 3,608,557,930 | - | 33,493 | - | 351,832,765 | 3,960,357,202 |
| 2081 | 3,960,357,202 | - | 25,527 | - | 386,133,583 | 4,346,465,258 |
| 2082 | 4,346,465,258 | - | 19,192 | - | 423,779,427 | 4,770,225,493 |
| 2083 | 4,770,225,493 | - | 14,218 | - | 465,096,292 | 5,235,307,567 |
| 2084 | 5,235,307,567 | - | 10,373 | - | 510,441,982 | 5,745,739,176 |
| 2085 | 5,745,739,176 | - | 7,457 | - | 560,209,206 | 6,305,940,925 |
| 2086 | 6,305,940,925 | - | 5,277 | - | 614,828,983 | 6,920,764,631 |
| 2087 | 6,920,764,631 | - | 3,681 | - | 674,774,372 | 7,595,535,322 |
| 2088 | 7,595,535,322 | - | 2,528 | - | 740,564,571 | 8,336,097,365 |
| 2089 | 8,336,097,365 | - | 1,712 | - | 812,769,410 | 9,148,865,063 |
| 2090 | 9,148,865,063 | - | 1,147 | - | 892,014,288 | 10,040,878,204 |
| 2091 | 10,040,878,204 | - | 758 | - | 978,985,588 | 11,019,863,034 |
| 2092 | 11,019,863,034 | - | 492 | - | 1,074,436,622 | 12,094,299,164 |
| 2093 | 12,094,299,164 | - | 318 | - | 1,179,194,153 | 13,273,492,999 |
| 2094 | 13,273,492,999 | - | 204 | - | 1,294,165,557 | 14,567,658,352 |
| 2095 | 14,567,658,352 | - | 129 | - | 1,420,346,683 | 15,988,004,906 |
| 2096 | 15,988,004,906 | - | 82 | - | 1,558,830,474 | 17,546,835,298 |
| 2097 | 17,546,835,298 | - | 51 | - | 1,710,816,439 | 19,257,651,686 |
| 2098 | 19,257,651,686 | - | 32 | - | 1,877,621,038 | 21,135,272,692 |
| 2099 | 21,135,272,692 | - | 20 | - | 2,060,689,086 | 23,195,961,758 |
| 2100 | 23,195,961,758 | - | 12 | - | 2,261,606,271 | 25,457,568,017 |
| 2101 | 25,457,568,017 | - | 7 | - | 2,482,112,881 | 27,939,680,891 |
| 2102 | 27,939,680,891 | - | 4 | - | 2,724,118,887 | 30,663,799,774 |
| 2103 | 30,663,799,774 | - | 2 | - | 2,989,720,478 | 33,653,520,250 |
| 2104 | 33,653,520,250 | - | 1 | - | 3,281,218,224 | 36,934,738,473 |
| 2105 | 36,934,738,473 | - | 1 | - | 3,601,137,001 | 40,535,875,473 |
| 2106 | 40,535,875,473 | - | - | - | 3,952,247,859 | 44,488,123,332 |

*All DROP Balances paid in 2015.

Number of Years Expected Benefit Payments Sustained: 999.99

This projection assumes no further contributions, assumes no further benefit accruals, and assumes Market Value of Assets earn 9.75% interest.

It is important to note that as long as the Actuarially Determined Contribution is made each year, the Plan will never become insolvent. Furthermore, State and local laws mandate that the Actuarially Determined Contribution be made each year.

ACTUAL AND HYPOTHETICAL CONTRIBUTIONS APPLICABLE TO THE FISCAL YEAR
ENDING SEPTEMBER 30, 2017

Valuation Date: 10/1/2015

| | ACTUAL | HYPOTHETICAL | | |
|--|----------------------------|----------------------------------|----------------------------------|----------------------------------|
| | 7.75% RP-2000 Static | 7.75% RP-2000 Generational | 5.75% RP-2000 Generational | 9.75% RP-2000 Generational |
| Total Required Contribution (Fixed \$) | \$1,896,156 | \$2,048,321 | \$3,282,775 | \$1,048,631 |
| Total Required Contribution (% of Payroll) | 33.8% | 36.6% | 58.6% | 18.7% |
| Expected Member Contribution | 286,068 | 286,068 | 286,068 | 286,068 |
| Expected State Money | 176,349 | 176,349 | 176,349 | 176,349 |
| Expected Sponsor Contribution (Fixed \$) | \$1,433,739 | \$1,585,904 | \$2,820,358 | \$586,214 |
| Expected Sponsor Contribution (% of Payroll) | 25.6% | 28.4% | 50.4% | 10.5% |

ASSETS

| | | | | |
|------------------------------|------------|------------|------------|------------|
| Actuarial Value ¹ | 39,208,086 | 39,208,086 | 39,208,086 | 39,208,086 |
| Market Value ¹ | 38,785,217 | 38,785,217 | 38,785,217 | 38,785,217 |

LIABILITIES

| | | | | |
|---|------------|------------|------------|-------------|
| Present Value of Benefits | | | | |
| Active Members | | | | |
| Retirement Benefits | 19,741,520 | 20,655,093 | 30,912,637 | 14,494,711 |
| Disability Benefits | 3,416,233 | 3,575,050 | 5,031,779 | 2,653,836 |
| Death Benefits | 201,874 | 141,847 | 178,599 | 114,904 |
| Vested Benefits | 330,223 | 1,562,686 | 2,652,849 | 963,499 |
| Refund of Contributions | 1,496,135 | 330,300 | 354,129 | 309,193 |
| Service Retirees | 17,638,267 | 18,250,179 | 21,906,880 | 15,589,536 |
| DROP Retirees ¹ | 1,948,409 | 2,012,015 | 2,390,798 | 1,736,234 |
| Beneficiaries | 808,777 | 832,901 | 1,008,991 | 708,266 |
| Disability Retirees | 2,703,611 | 2,786,168 | 3,424,893 | 2,342,025 |
| Terminated Vested | 683,156 | 705,606 | 930,675 | 560,633 |
| Excess State Monies Reserve | 1,435,838 | 1,435,838 | 1,435,838 | 1,435,838 |
| Total: | 50,404,043 | 52,287,683 | 70,228,068 | 40,908,675 |
| Present Value of Future Salaries | 43,973,341 | 44,029,385 | 49,306,500 | 39,775,021 |
| Present Value of Future Member Contributions | 2,242,640 | 2,245,499 | 2,514,632 | 2,028,526 |
| Total Normal Cost | 1,118,463 | 1,163,894 | 1,810,205 | 779,589 |
| Present Value of Future Normal Costs (Entry Age Normal) | 8,266,076 | 8,632,442 | 15,157,927 | 5,177,175 |
| Total Actuarial Accrued Liability ¹ | 42,137,967 | 43,655,241 | 55,070,141 | 35,731,500 |
| Unfunded Actuarial Accrued Liability (UAAL) | 2,929,881 | 4,447,155 | 15,862,055 | (3,476,586) |

ACTUAL AND HYPOTHETICAL CONTRIBUTIONS APPLICABLE TO THE FISCAL YEAR
ENDING SEPTEMBER 30, 2017

Valuation Date: 10/1/2015

| | ACTUAL | HYPOTHETICAL | | |
|--|----------------------------|----------------------------------|----------------------------------|----------------------------------|
| | 7.75% RP-2000 Static | 7.75% RP-2000 Generational | 5.75% RP-2000 Generational | 9.75% RP-2000 Generational |
| <u>PENSION COST</u> | | | | |
| Normal Cost (with interest) | 1,161,803 | 1,208,995 | 1,862,248 | 817,594 |
| Administrative Expenses (with interest) | 82,936 | 82,936 | 82,137 | 83,734 |
| Payment Required To Amortize UAAL (with interest) | 651,417 | 756,390 | 1,338,390 | 147,303 |
| Total Required Contribution | \$1,896,156 | \$2,048,321 | \$3,282,775 | \$1,048,631 |

¹ The asset values and liabilities for DROP Members include accumulated DROP Balances as of 9/30/2015.