CITY OF MIRAMAR

MUNICIPAL POLICE OFFICERS'

RETIREMENT PLAN

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 Section 60T-1.0035, Florida Administrative Code.

By: Donald DuLaney Date: 10/14/20

Donald A. DuLaney, Jr. A.S.A., E.A.
Senior Consulting Actuary Enrolled
Actuary #20-4191

DuLaney and Company

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SCHEDULE OF CHANGES IN NET PENSION LIABILITY AND RELATED RATIOS

	Actual	Under Section 112.664(1)(a), F.S.	Under Section 112.664(1)(b), F.S.	Under Section 112.664(1)(b), F.S.
	Discount Rate: 7.00%	Discount Rate: 7.00%	Discount Rate: 5.00%	Discount Rate: 9.00%
	FRS 7/1/2019 Mortality	FRS 7/1/2019 Mortality	FRS 7/1/2019 Mortality	FRS 7/1/2019 Mortality
	9/30/2019	9/30/2019	9/30/2019	9/30/2019
1. Total pension liability:				
a. Service cost	$ 4,753,171	$ 4,753,171	$ 7,479,365	$ 3,177,941
b. Interest	$ 17,765,393	$ 17,765,393	$ 16,427,535	$ 18,532,642
c. Benefit changes	$ -	$ -	$ -	$ -
d. Difference between expected and actual experience	$ (528,782)	$ (528,782)	$ (413,210)	$ (946,165)
e. Changes in assumptions	$ (7,316,988)	$ (7,316,988)	$ (14,064,413)	$ (4,005,132)
f. Benefit payments	$ (7,162,664)	$ (7,162,664)	$ (7,162,664)	$ (7,162,664)
g. Contribution refunds	$ (165,413)	$ (165,413)	$ (165,413)	$ (165,413)
h. Net change in total pension liability	$ 7,344,717	$ 7,344,717	$ 2,101,200	$ 9,431,209
i. Total pension liability – beginning	$ 260,019,184	$ 260,019,184	$ 338,799,796	$ 210,409,469
j. Total pension liability – ending	$ 267,363,901	$ 267,363,901	$ 340,900,996	$ 219,840,678
2. Plan fiduciary net position:				
a. Contributions – City	$ 8,821,360	$ 8,821,360	$ 8,821,360	$ 8,821,360
b. Contributions – State	$ 1,209,810	$ 1,209,810	$ 1,209,810	$ 1,209,810
c. Contributions – Member	$ 2,531,825	$ 2,531,825	$ 2,531,825	$ 2,531,825
d. Net investment income	$ 5,916,882	$ 5,916,882	$ 5,916,882	$ 5,916,882
e. Benefit payments	$ (7,162,664)	$ (7,162,664)	$ (7,162,664)	$ (7,162,664)
f. Contributions refunds	$ (165,413)	$ (165,413)	$ (165,413)	$ (165,413)
g. Administrative expense	$ (187,532)	$ (187,532)	$ (187,532)	$ (187,532)
h. Other	$ -	$ -	$ -	$ -
i. Net change in plan fiduciary net position	$ 10,964,268	$ 10,964,268	$ 10,964,268	$ 10,964,268
j. Plan fiduciary net position – beginning	$ 178,179,631	$ 178,179,631	$ 178,179,631	$ 178,179,631
k. Plan fiduciary net position – ending	$ 189,143,899	$ 189,143,899	$ 189,143,899	$ 189,143,899
3. Net pension liability/(asset) [(a)1.j. minus (a)2.k.]	$ 78,220,002	$ 78,220,002	$ 151,757,097	$ 30,696,779

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INTRODUCTION — Section 112.664, F.S. Requirements

When reviewing the report, please note the following:

DuLaney and Company has prepared this report in order to satisfy the requirements set forth under Florida Statutes (FS) 112.664 and Ch. 60T-1.0035, F.A.C. These schedules have no impact on the funding requirements of the Plan. We have uploaded the semi-colon delimited file as described under Ch. 60T-1.0035.

The actuarial funding assumptions shown in our October 1, 2019 actuarial valuation report have been used in the preparation of this report, except as required for certain disclosures herein.

This report contains figures using an investment return assumption that is 2.0% higher than the actual funding assumption, in order to provide a balanced view, in light of the requirement to use an investment return assumption that is 2.0% lower than the actual funding assumption.

The schedules showing the projected number of years until the Fund becomes insolvent are required, but do not reflect what will occur. This is because no future contributions from any current funding source are assumed, as required for these disclosures, contrary to Florida Statutes.

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PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Plan Assumptions: 7.10% and FRS 7/1/2019 Mortality

Year	Projected Beginning Fiduciary Net Position	Projected Benefit Payments	Projected Investment Earnings	Projected Ending Fiduciary Net Position
10/1/2019	$144,941,682	$10,069,125	$9,933,405	$144,805,962
10/1/2020	$144,805,962	$10,714,448	$9,900,860	$143,992,375
10/1/2021	$143,992,375	$11,530,167	$9,814,138	$142,276,346
10/1/2022	$142,276,346	$12,127,722	$9,671,086	$139,819,710
10/1/2023	$139,819,710	$12,957,701	$9,467,201	$136,329,210
10/1/2024	$136,329,210	$13,173,827	$9,211,703	$132,367,086
10/1/2025	$132,367,086	$13,898,609	$8,904,662	$127,373,140
10/1/2026	$127,373,140	$14,462,398	$8,530,078	$121,440,819
10/1/2027	$121,440,819	$14,983,343	$8,090,389	$114,547,866
10/1/2028	$114,547,866	$15,605,788	$7,578,893	$106,520,971
10/1/2029	$106,520,971	$16,101,209	$6,991,396	$97,411,158
10/1/2030	$97,411,158	$16,500,279	$6,330,432	$87,241,311
10/1/2031	$87,241,311	$16,864,801	$5,595,433	$75,971,943
10/1/2032	$75,971,943	$17,219,434	$4,782,718	$63,535,227
10/1/2033	$63,535,227	$17,843,870	$3,877,544	$49,568,901
10/1/2034	$49,568,901	$18,258,094	$2,871,230	$34,182,036
10/1/2035	$34,182,036	$18,954,695	$1,754,033	$16,981,374
10/1/2036	$16,981,374	$19,593,402		

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PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Plan Assumptions: 7.10% and FRS 7/1/2019 Mortality

Number of Years Expected Benefit Payments Sustained: 17.87

Note: As required in Section 112.664(c) of the Florida Statutes, the projection of the Fund assets do not include contributions from the Employer, Employee or State, which is contrary to Florida Statutes and Plan provisions. For this reason, these projections should not be viewed as a representation of the amount of time the Fund can sustain benefit payments. Under the GASB standards which DO include contributions from the employer, employee and State, the Fund is expected to be able to sustain the benefit payment demands in the near-term and long-term future.

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PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Plan Assumptions: 7.00% and FRS 7/1/2019 Mortality

Year	Projected Beginning Fiduciary Net Position	Projected Benefit Payments	Projected Investment Earnings	Projected Ending Fiduciary Net Position
10/1/2019	$144,941,682	$10,069,125	$9,793,498	$144,666,055
10/1/2020	$144,666,055	$10,714,448	$9,751,618	$143,703,226
10/1/2021	$143,703,226	$11,530,167	$9,655,670	$141,828,729
10/1/2022	$141,828,729	$12,127,722	$9,503,541	$139,204,547
10/1/2023	$139,204,547	$12,957,701	$9,290,799	$135,537,645
10/1/2024	$135,537,645	$13,173,827	$9,026,551	$131,390,369
10/1/2025	$131,390,369	$13,898,609	$8,710,875	$126,202,635
10/1/2026	$126,202,635	$14,462,398	$8,328,001	$120,068,237
10/1/2027	$120,068,237	$14,983,343	$7,880,360	$112,965,254
10/1/2028	$112,965,254	$15,605,788	$7,361,365	$104,720,831
10/1/2029	$104,720,831	$16,101,209	$6,766,916	$95,386,538
10/1/2030	$95,386,538	$16,500,279	$6,099,548	$84,985,807
10/1/2031	$84,985,807	$16,864,801	$5,358,738	$73,479,744
10/1/2032	$73,479,744	$17,219,434	$4,540,902	$60,801,212
10/1/2033	$60,801,212	$17,843,870	$3,631,549	$46,588,892
10/1/2034	$46,588,892	$18,258,094	$2,622,189	$30,952,987
10/1/2035	$30,952,987	$18,954,695	$1,503,295	$13,501,586
10/1/2036	$13,501,586	$19,593,402		

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PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Plan Assumptions: 7.00% and FRS 7/1/2019 Mortality

Number of Years Expected Benefit Payments Sustained: 17.69

Note: As required in Section 112.664(c) of the Florida Statutes, the projection of the Fund assets do not include contributions from the Employer, Employee or State, which is contrary to Florida Statutes and Plan provisions. For this reason, these projections should not be viewed as a representation of the amount of time the Fund can sustain benefit payments. Under the GASB standards which DO include contributions from the employer, employee and State, the Fund is expected to be able to sustain the benefit payment demands in the near-term and long-term future.

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PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Plan Assumptions: 5.00% and FRS 7/1/2019 Mortality

Year	Projected Beginning Fiduciary Net Position	Projected Benefit Payments	Projected Investment Earnings	Projected Ending Fiduciary Net Position
10/1/2019	$144,941,682	$10,069,125	$6,995,356	$141,867,913
10/1/2020	$141,867,913	$10,714,448	$6,825,534	$137,978,999
10/1/2021	$137,978,999	$11,530,167	$6,610,696	$133,059,528
10/1/2022	$133,059,528	$12,127,722	$6,349,783	$127,281,590
10/1/2023	$127,281,590	$12,957,701	$6,040,137	$120,364,026
10/1/2024	$120,364,026	$13,173,827	$5,688,856	$112,879,054
10/1/2025	$112,879,054	$13,898,609	$5,296,487	$104,276,933
10/1/2026	$104,276,933	$14,462,398	$4,852,287	$94,666,821
10/1/2027	$94,666,821	$14,983,343	$4,358,757	$84,042,236
10/1/2028	$84,042,236	$15,605,788	$3,811,967	$72,248,415
10/1/2029	$72,248,415	$16,101,209	$3,209,891	$59,357,096
10/1/2030	$59,357,096	$16,500,279	$2,555,348	$45,412,165
10/1/2031	$45,412,165	$16,864,801	$1,848,988	$30,396,352
10/1/2032	$30,396,352	$17,219,434	$1,089,332	$14,266,250
10/1/2033	$14,266,250	$17,843,870		

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PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Plan Assumptions: 5.00% and FRS 7/1/2019 Mortality

Number of Years Expected Benefit Payments Sustained: 14.80

Note: As required in Section 112.664(c) of the Florida Statutes, the projection of the Fund assets do not include contributions from the Employer, Employee or State, which is contrary to Florida Statutes and Plan provisions. For this reason, these projections should not be viewed as a representation of the amount of time the Fund can sustain benefit payments. Under the GASB standards which DO include contributions from the employer, employee and State, the Fund is expected to be able to sustain the benefit payment demands in the near-term and long-term future.

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PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Plan Assumptions: 9.00% and FRS 7/1/2019 Mortality

Year	Projected Beginning Fiduciary Net Position	Projected Benefit Payments	Projected Investment Earnings	Projected Ending Fiduciary Net Position
10/1/2019	$144,941,682	$10,069,125	$12,591,641	$147,464,198
10/1/2020	$147,464,198	$10,714,448	$12,789,628	$149,539,377
10/1/2021	$149,539,377	$11,530,167	$12,939,686	$150,948,897
10/1/2022	$150,948,897	$12,127,722	$13,039,653	$151,860,828
10/1/2023	$151,860,828	$12,957,701	$13,084,378	$151,987,505
10/1/2024	$151,987,505	$13,173,827	$13,086,053	$151,899,731
10/1/2025	$151,899,731	$13,898,609	$13,045,538	$151,046,661
10/1/2026	$151,046,661	$14,462,398	$12,943,392	$149,527,654
10/1/2027	$149,527,654	$14,983,343	$12,783,238	$147,327,550
10/1/2028	$147,327,550	$15,605,788	$12,557,219	$144,278,981
10/1/2029	$144,278,981	$16,101,209	$12,260,554	$140,438,326
10/1/2030	$140,438,326	$16,500,279	$11,896,937	$135,834,983
10/1/2031	$135,834,983	$16,864,801	$11,466,232	$130,436,415
10/1/2032	$130,436,415	$17,219,434	$10,964,403	$124,181,384
10/1/2033	$124,181,384	$17,843,870	$10,373,350	$116,710,864
10/1/2034	$116,710,864	$18,258,094	$9,682,364	$108,135,133
10/1/2035	$108,135,133	$18,954,695	$8,879,201	$98,059,639
10/1/2036	$98,059,639	$19,593,402	$7,943,664	$86,409,902
10/1/2037	$86,409,902	$20,142,649	$6,870,472	$73,137,725
10/1/2038	$73,137,725	$20,490,074	$5,660,342	$58,307,992
10/1/2039	$58,307,992	$20,968,448	$4,304,139	$41,643,684
10/1/2040	$41,643,684	$21,035,117	$2,801,351	$23,409,918
10/1/2041	$23,409,918	$21,071,808	$1,158,661	$3,496,771
10/1/2042	$3,496,771	$21,080,810		

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PROJECTION OF THE NUMBER OF YEARS ASSETS WILL SUSTAIN BENEFIT PAYMENTS

Plan Assumptions: 9.00% and FRS 7/1/2019 Mortality

Number of Years Expected Benefit Payments Sustained: 23.17

Note: As required in Section 112.664(c) of the Florida Statutes, the projection of the Fund assets do not include contributions from the Employer, Employee or State, which is contrary to Florida Statutes and Plan provisions. For this reason, these projections should not be viewed as a representation of the amount of time the Fund can sustain benefit payments. Under the GASB standards which DO include contributions from the employer, employee and State, the Fund is expected to be able to sustain the benefit payment demands in the near-term and long-term future.

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ACTUAL AND HYPOTHETICAL CONTRIBUTIONS APPLICABLE TO THE FISCAL YEAR
ENDING SEPTEMBER 30, 2020
Valuation Date: 10/1/2019

PENSION COST	ACTUAL Interest Rate: 7.10% FRS 7/1/2019 Mortality	Interest Rate: 7.00% FRS 7/1/2019 Mortality	Interest Rate: 5.00% FRS 7/1/2019 Mortality	Interest Rate: 9.00% FRS 7/1/2019 Mortality
Normal Cost	4,753,967	4,855,800	7,628,662	3,250,701
Administrative Expenses	187,532	187,532	187,532	187,532
Payment Required to Amortize UAAL	7,034,707	7,243,290	11,951,555	3,414,795
Interest Adjustment	530,940	541,476	731,653	316,998
Total Required Contribution	**12,507,146**	**12,828,098**	**20,499,402**	**7,170,026**
TRC as % of Payroll	86.00%	88.20%	140.95%	49.30%

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