

RESOLUTION NO. _____

A RESOLUTION OF THE MAYOR AND CITY COMMISSION OF THE CITY OF MIAMI BEACH, FLORIDA, ACCEPTING THE RECOMMENDATION OF THE FINANCE AND ECONOMIC RESILIENCY COMMITTEE AT ITS OCTOBER 16, 2023 MEETING TO (1) APPROVE AND ADOPT THE REPORT, GOALS, AND CAPITAL IMPROVEMENT PLAN SUBMITTED BY AECOM, ENTITLED "2024 STORMWATER MODELING AND MASTER PLAN UPDATE", WHICH INCLUDES THE PRIORITIZATION OF THE TEN-YEAR CRITICAL NEEDS PLAN AND THE CONTINUED IMPLEMENTATION OF NEIGHBORHOOD IMPROVEMENT PROJECTS INCORPORATING BLUE-GREEN INFRASTRUCTURE AND WATER QUALITY TREATMENT IMPROVEMENTS AND (2) COMMENCE A RATE STUDY OF THE STORMWATER UTILITY TO DETERMINE FINANCIAL CAPACITY FOR THE STORMWATER INFRASTRUCTURE PROJECTS.

WHEREAS, the City of Miami Beach is a highly urbanized coastal community in southeast Florida and a major economic resource to the region and continues to be a leader in adapting to the impacts of climate change; and

WHEREAS, on November 14, 2012, the Mayor and City Commission approved Resolution No. 2012-28068 adopting the 2011 Stormwater Master Plan; and

WHEREAS, the City Commission previously adopted Resolution 2014-28684 on July 23, 2014, which approved the recommendation of the Flooding Mitigation Committee to amend the 2011 Stormwater Master Plan for minimum seawall elevation from 3.2 ft NAVD to 5.7 ft NAVD, however the 5.7 ft NAVD elevation for seawalls shall not apply to minor seawall repairs less than \$300 per linear foot at "2014 Consumer Price Index (CPI)"; and

WHEREAS, on July 21, 2015, the Mayor's Blue Ribbon Panel on Flooding and Sea Level Rise recommended that the seawall cap on all new private construction and all public seawall construction be changed from 3.2 ft NAVD to 5.7 ft NAVD throughout the City; however, on existing private seawalls that are being replaced/repared not associated with new building construction, a minimum 4.0 ft NAVD elevation shall apply with the structural design to accommodate a seawall height extension to a minimum of 5.7 ft NAVD; and

WHEREAS, on May 11, 2016, the City Commission adopted Ordinance 2016-4009 which amended Chapter 54 - "Floods", by establishing a minimum and maximum freeboard (minimum one foot / maximum five feet) above base flood elevation (FIRM BFE = not less than 6.44 NAVD) for all properties and amend the Land Development regulations pertaining to the calculation of building height, and establish minimum elevations of required yards in single family districts; and

WHEREAS, on May 11, 2016, the City Commission adopted Ordinance 2016-4010, amending Chapter 118, of the Land Development Regulations relating to defining "future grade" and "future crown of the road;" and

WHEREAS, On June 8, 2016, the City Commission adopted the following modifications to the 2011 SWMP: (1) Modified Section 2. 5. 3 Proposed Level of Service to include, "Future crown of road and back of sidewalk elevations shall be 3.7 feet, NAVD, unless exempt due to hardship as determined by the Director of Public Works;" (2) Modified Section 2. 5. 3 Proposed

Level of Service to include, "For land development purposes, the future grade shall be 3.7 feet NAVD minimum;" (3) Modify Section 2. 5. 3 Proposed Level of Service to state, "The stormwater level of service for roadways such that the crown of road is not overtopped during the 5 year/ 24 hour design storm event (with a 1.25 safety factor, SCS Type III rainfall distribution and a Unit Hydrograph peaking factor of 150)"; (4) Modified Section 2. 5. 3 Proposed Level of Service to state, "New construction or substantial reconstruction on private property shall retain storm water runoff from the 5 year/ 24 hour design storm of 7.5 inches of rainfall;" and (5) Modified Section 9. 2. 5 Seawall Heights to state, "All new seawalls on private construction and all seawalls constructed on public projects shall have a minimum elevation of 5.7 feet, NAVD, however, on existing private seawalls that are being replaced/ repaired not associated with new building construction, a minimum 4.0 NAVD elevation shall apply with the structural design to accommodate a seawall height extension to a minimum 5.7 NAVD;" and

WHEREAS, the Mayor and City Commission approved Resolution No. 2017-30039 on October 18, 2017, which approved the recommendation to amend the 2011 Stormwater Master Plan to increase the level of protection to protect from a 10-year/24-hour storm event; and

WHEREAS, at its July, 2020 meeting, amended the 2011 Stormwater Master Plan and incorporated three reports: 1) The Blue-Green Stormwater Infrastructure Concept Plan dated February 28, 2020; 2) the Road Elevation Strategy and Recommended Sea Level Rise/Tidal Flood adaptation Project, dated February 28, 2020; and 3) the Neighborhood Project Prioritization Plan – Methodology and Results, dated April 1, 2020 under Resolution 2020-31317; and

WHEREAS, on January 13, 2021, the Mayor and City Commission approved Resolution No. 2021-31536 authorizing the City to enter into negotiations with AECOM Technical Services, Inc. and executing an agreement with the Consultant pursuant to RFQ 2020-096-ND; and

WHEREAS, in 2022 the City retained AECOM to update the 2011 Stormwater Modeling and Master Plan under the executed agreement pursuant to RFQ 2020-096-ND; and

WHEREAS, at its October 31, 2022 meeting, the Administration presented to the Finance and Economic Resiliency Committee, indicating that AECOM had initiated their work on the Stormwater Master Plan Update; and

WHEREAS, on April 21, 2023, the Administration provided a progress update to the Finance and Economic and Resiliency Committee; and

WHEREAS, on September 28, 2023 the Administration presented the Draft Stormwater Modeling and Master Plan Update to the community in a public outreach meeting and the meeting was available both in person and remotely through Zoom; and residents who attended in person had the opportunity to discuss their questions and concerns one-on-one with City and consultant staff following the presentation; and the City distributed a link to a website where all meeting materials could be reviewed, and residents could submit their feedback and questions; and responses to questions were issued and follow up meetings were held as requested; and

WHEREAS, at its October 16, 2023 meeting, the Administration presented the draft Stormwater Modeling and Master Plan Update to the Finance and Economic Resiliency Committee Members and the Committee provided feedback and referred the Stormwater Master Plan—with the addressed comments—to the Commission for adoption of the proposed updated plan; and

WHEREAS, at its November 21, 2023 meeting, the Administration presented the Stormwater Modeling and Master Plan Update to the Ad Hoc Neighborhood Resilience Project Advisory Committee; and

WHEREAS, Committee and community feedback was evaluated and incorporated into this Final Stormwater Modeling and Master Plan Update; and

WHEREAS, the 2024 Stormwater Master Plan Update (the "Plan") is intended to supersede the 2011 Stormwater Master Plan, integrate historical amendments, incorporate recent studies including the Neighborhood Prioritization Plan, integrate the City's ongoing water quality projects and future blue-green infrastructure projects, and create a 10-year plan to implement critical projects addressing nuisance flooding; and

WHEREAS, the Plan continues to recommend the implementation of Neighborhood Improvement Projects (NIPs) as the only sustainable long-term solution to mitigate tidal and rainfall induced flooding,

WHEREAS, the Administration recognizes that the implementation of NIPs will take a long time and will be costly; and

WHEREAS, the Plan also identified and prioritized Critical Needs Projects - these are smaller projects aimed at addressing nuisance flooding to provide both beneficial and cost-effective solutions within targeted areas that currently suffer from recurring flooding and these projects are intended to be complimentary and adaptable to the future Neighborhood Improvement Projects; and

WHEREAS, the Plan incorporates the following prior studies: Neighborhood Project Prioritization (2020); Blue-Green Stormwater Infrastructure Concept Plan (2020); Road Elevation Strategy (2020); Stormwater Facilities Plan (2019); Seawall Prioritization Plan (2020); Basin Drainage Reports for the Flood Mitigation Study (2019); Stormwater 20-Year Needs Analysis (HB 53, 2022); and Sea Level Rise Vulnerability Assessment and Adaptation Plan (ongoing); and

WHEREAS, the proposed ten-year critical needs projects have an escalated total budgetary estimate of \$95 million dollars; and

WHEREAS, the total estimated budgetary cost for the Prioritized Neighborhood Improvement Projects is \$3.7 billion dollars (in 2024 dollars, excluding FDOT right-of-way) and the budgetary estimate includes the implementation of blue-green infrastructure and water quality treatment systems and provides stormwater improvements so that all City right-of-way meets a 10-year/24-hour design storm level of service.

NOW, THEREFORE, BE IT DULY RESOLVED BY THE MAYOR AND CITY COMMISSION OF THE CITY OF MIAMI BEACH, FLORIDA that the Mayor and City Commission hereby accept the recommendation of the Finance and Economic Resiliency Committee at its October 16, 2023 meeting to (1) approve and adopt the report, goals, and capital improvement plan submitted by AECOM, entitled "2024 Stormwater Modeling and Master Plan Update", which includes the prioritization of the ten-year critical needs plan and the continued implementation of neighborhood improvement projects incorporating blue-green infrastructure and water quality treatment improvements and (2) commence a rate study of the stormwater utility to determine financial capacity for the stormwater infrastructure projects.

PASSED AND ADOPTED this _____ day of _____, 2024.

ATTEST:

Steven Meiner, Mayor

Rafael E. Granado, City Clerk

APPROVED AS TO
FORM & LANGUAGE
& FOR EXECUTION



City Attorney

3-7-24

Date