

To: The Honorable Mayor and City Council

From: Aleem A. Ghany, P.E., Public Works Director 

Date: December 11, 2012

RE: **STORMWATER MASTER PLAN**

RECOMMENDATION

The City of North Miami City Council Resolution adopting the updated Stormwater Master Plan, as developed by CDM Smith Inc., dated September 2012.

BACKGROUND

In fulfilling the requirements of the Clean Water Act of 1972 (CWA) and other Federal mandates, Miami-Dade County has required all municipalities to develop a Stormwater Master Plan. In 2011, the City contracted to begin updating the plan. The North Miami Stormwater Master Plan is an assessment of existing hydraulic and hydrological water quality systems within the City. The primary purpose of the updated Stormwater Master Plan was to address long-term needs to mitigate chronic flooding areas within the City. The plan identifies and ranks areas relative to flooding and water quality.

This plan also updates all Capital Improvements addressing flooding and water quality requirements completed over the last ten (10) years. It also addresses level of service (LOS) standards outlined by Miami-Dade County's RER Level of Service, National Pollution Discharge Elimination Systems (NPDES), Municipal Separate (MS4) Permit requirements, and the Federal Emergency Management (FEMA) National Flood Insurance Program (NFIP) requirements.

This plan will also improve the collection and conveyance of stormwater runoff within North Miami, thus protecting the health and safety of the community.

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ADDITIONAL INFORMATION

Adoption of the 2012 Stormwater Master Plan is an important component of the City's National Flood Insurance Program, Community Rating System (CRS) modification request. The plan represents approximately 200 points in compliance with the CRS Program.

ATTACHMENTS

- (1) Resolution
- (2) SMP - Master Plan

RESOLUTION NO. _____

A RESOLUTION OF THE MAYOR AND CITY COUNCIL OF THE CITY OF NORTH MIAMI, FLORIDA, ADOPTING THE UPDATED CITY OF NORTH MIAMI STORMWATER MANAGEMENT MASTER PLAN; PROVIDING FOR AN EFFECTIVE DATE AND FOR ALL OTHER PURPOSES.

WHEREAS, the federal Clean Water Act, in conjunction with the State of Florida and Miami-Dade County regulations, require the City of North Miami (“City”) to develop, implement and update a Stormwater Master Plan (“Master Plan”), assessing hydraulic and hydrological water quality systems within the City; and

WHEREAS, the City’s Consulting Engineer, CDM Smith, Inc., has updated the Master Plan in accordance with federal, state and local government regulations, in order to alleviate adverse water quality and floodwater conditions; and

WHEREAS, the updated Master Plan addresses, among other things, the requirements needed to mitigate chronic flood areas, capital improvements devoted for improving water quality and flood controls, level of service standards for new development, national pollution discharge elimination systems, City permit requirements, and Federal Emergency Management Agency (FEMA) requirements; and

WHEREAS, the adoption of the Master Plan is an important component of the City’s National Flood Insurance Program Community Rating System modification request and serves as a basis for the City’s Flood Damage Prevention Ordinance under Chapter 8.5, City Code of Ordinances; and

WHEREAS, the Mayor and City Council find that the adoption of the updated Master Plan, is crucial for the improvement and preservation of the public health, safety and welfare.

NOW THEREFORE, BE IT DULY RESOLVED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF NORTH MIAMI, FLORIDA:

Section 1. Adoption of Stormwater Management Master Plan. The Mayor and City Council of the City of North Miami, Florida, hereby adopt the updated City of North Miami Stormwater Management Master Plan, attached hereto by reference.

Section 2. Effective Date. This Resolution shall become effective immediately upon adoption.

PASSED AND ADOPTED by a _____ vote of the Mayor and City Council of the City of North Miami, Florida, this _____ day of December, 2012.

ANDRE D. PIERRE, ESQ.
MAYOR

ATTEST:

MICHAEL A. ETIENNE, ESQ.
CITY CLERK

APPROVED AS TO FORM AND
LEGAL SUFFICIENCY:

REGINE M. MONESTIME
CITY ATTORNEY

SPONSORED BY: CITY ADMINISTRATION

Moved by: _____

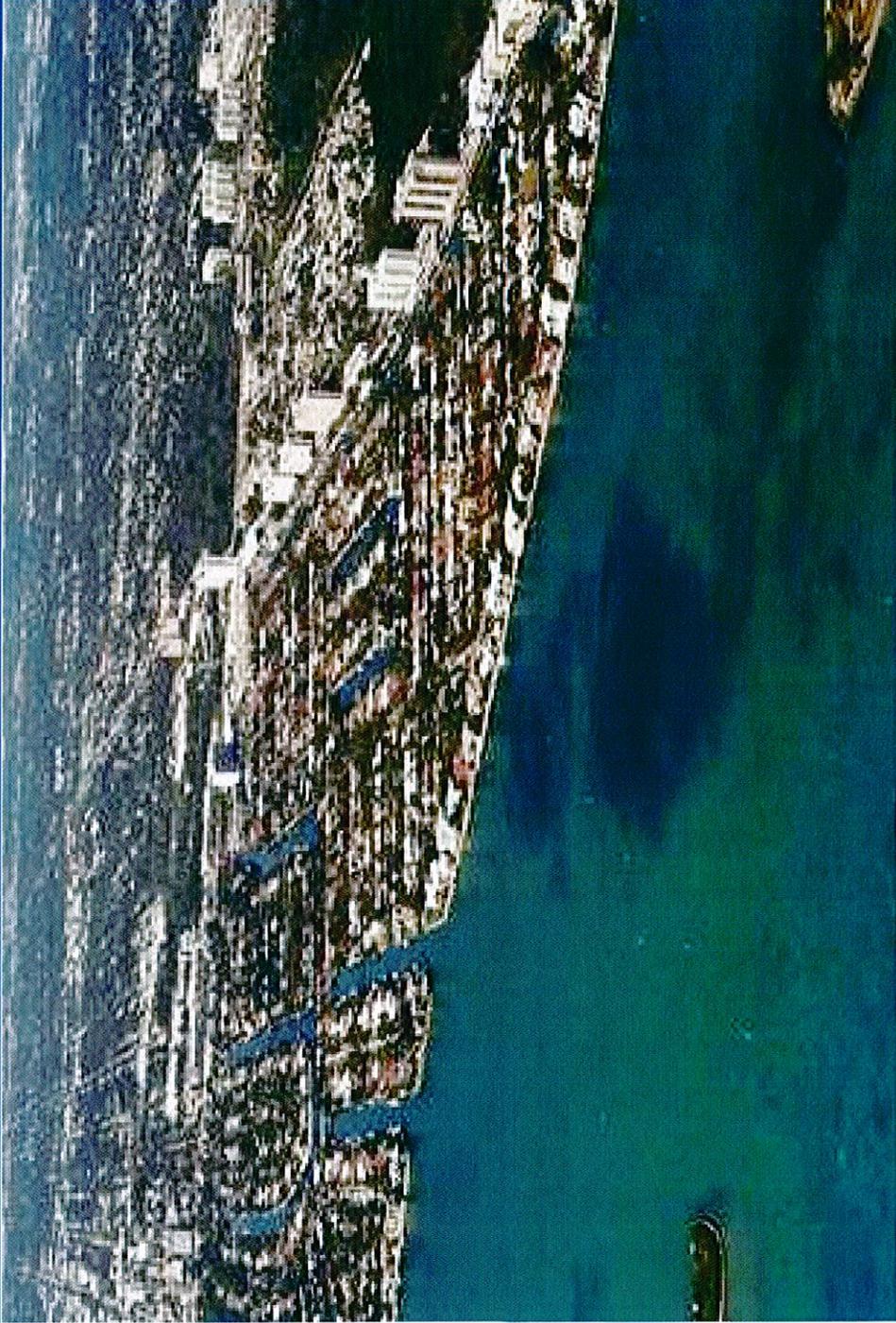
Seconded by: _____

Vote:

| | | | | |
|--------------------------------------|-------|-------|-------|------|
| Mayor Andre D. Pierre, Esq. | _____ | (Yes) | _____ | (No) |
| Vice Mayor Marie Erlande Steril | _____ | (Yes) | _____ | (No) |
| Councilperson Michael R. Blynn, Esq. | _____ | (Yes) | _____ | (No) |
| Councilperson Scott Galvin | _____ | (Yes) | _____ | (No) |
| Councilperson Jean R. Marcellus | _____ | (Yes) | _____ | (No) |

City of North Miami Stormwater Master Plan Update

December 2012 Commission Presentation



CDM Smith Project Team Leaders



Michael F. Schmidt, P.E., BCEE

- Senior Vice President for CDM Smith
- Water Resources Technical Market Leader with 27 years experience on +80 stormwater programs across Florida
- Managed /directed +160 water resource management programs



Jason A. Johnson, P.E.

- Senior Project Manager
- Principal Water Resources Engineer
- 15 years of international and domestic water resources/stormwater management experience

Stormwater Master Plan Update Goals

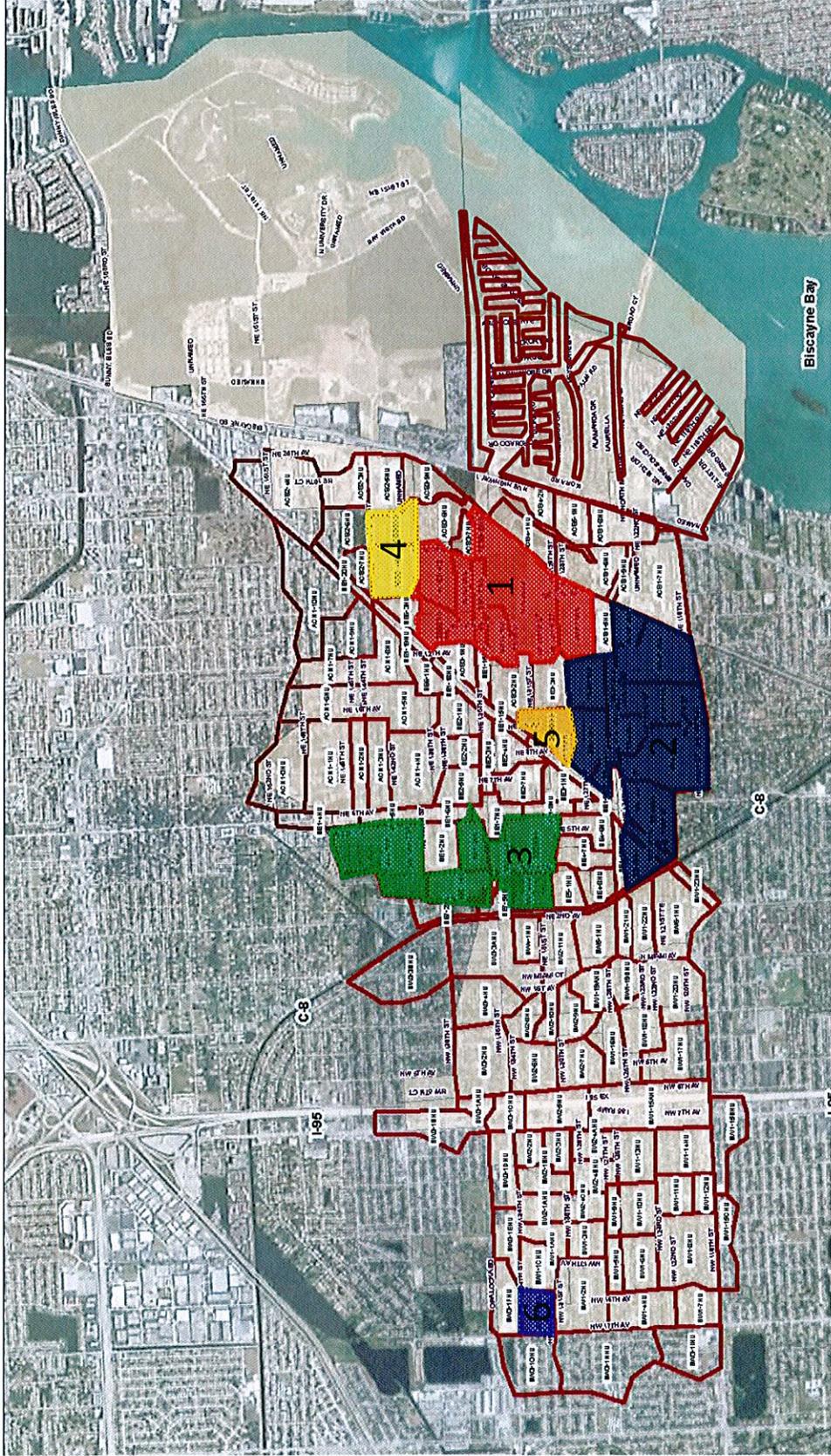
- Update 2000 Stormwater Master Plan
- Improve Flood Control
- Water Quality Protection
- Update Floodplain Management Plan
- National Flood Insurance Program Community Rating System Support

Adaptability

Levels
of
Service

Implementable

City of North Miami Top Priority Basins Based on Depth of Flooding



Stormwater Master Plan 50-Year Capital Improvement Plan

| Item Description | Capital Cost |
|---------------------------------------------------------------|---------------------|
| Construction Costs | \$37,000,000 |
| Program Contingency | \$11,000,000 |
| Legal, Engineering and Administration | \$8,000,000 |
| Contractor Overhead & Profit | \$2,000,000 |
| TOTAL PRELIMINARY ENGINEER'S ESTIMATE OF PROBABLE COST | \$58,000,000 |

City of North Miami Stormwater Master
Plan Update
December 2012 Commission Presentation

