



Mayor Kasim Reed

PUBLIC PRIVATE PARTNERSHIPS IN UPPER PROCTOR CREEK

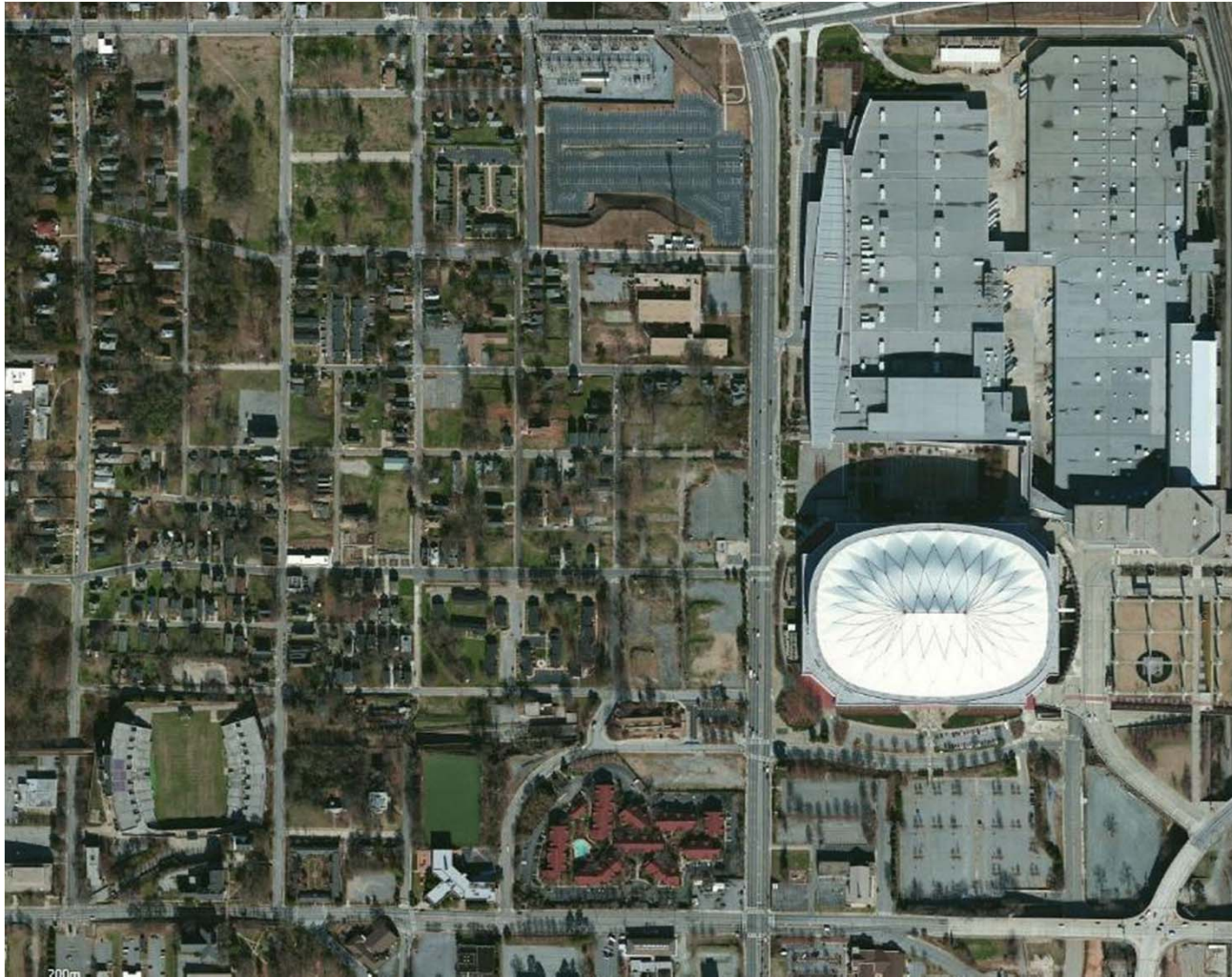
SESWA 2016 Birmingham, AL
October 20, 2016



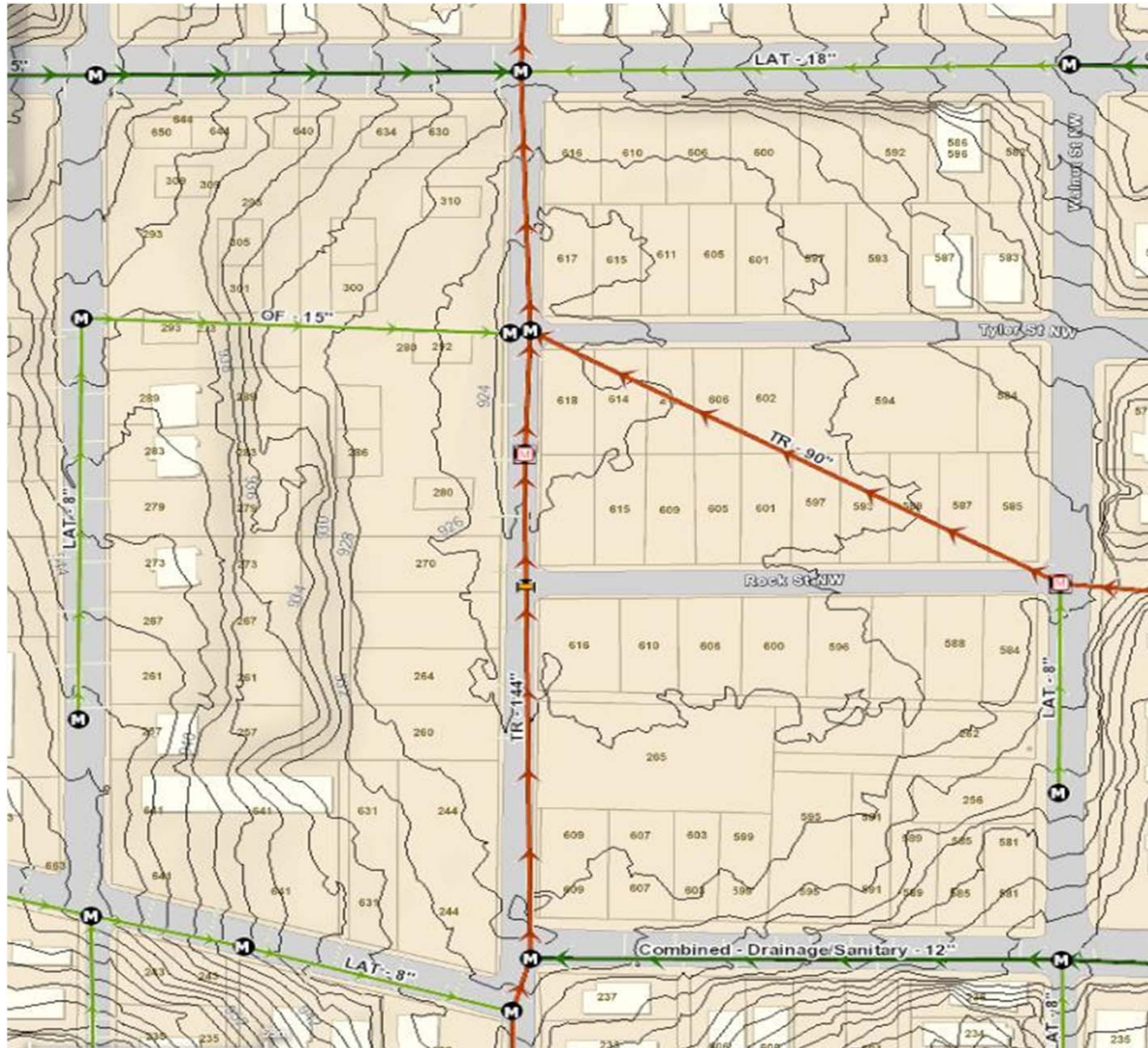
 CITY OF ATLANTA DEPARTMENT OF
**watershed
management**

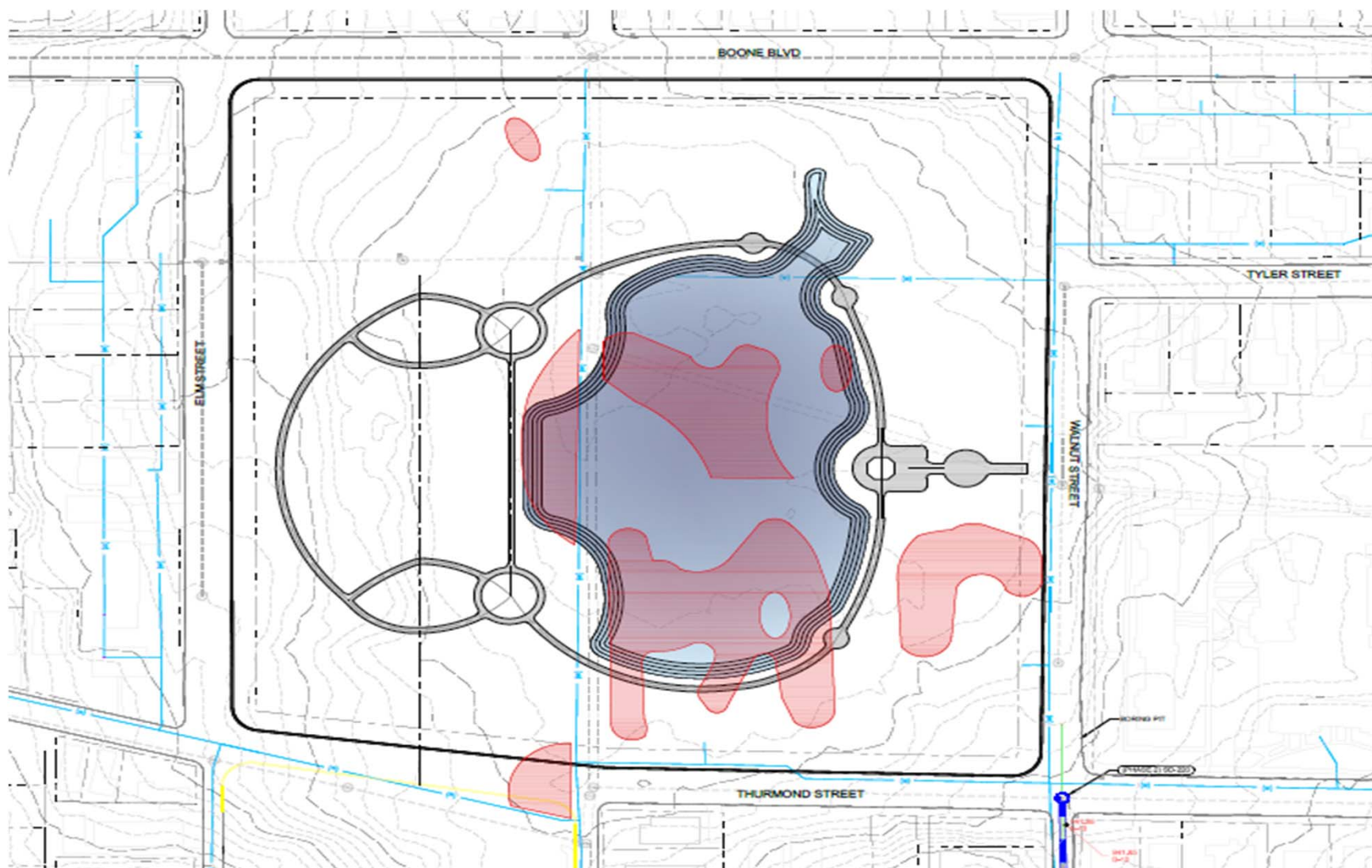
Kishia L. Powell, Commissioner
Department of Watershed Management

Future Mims Park, GA Dome & World Congress Center

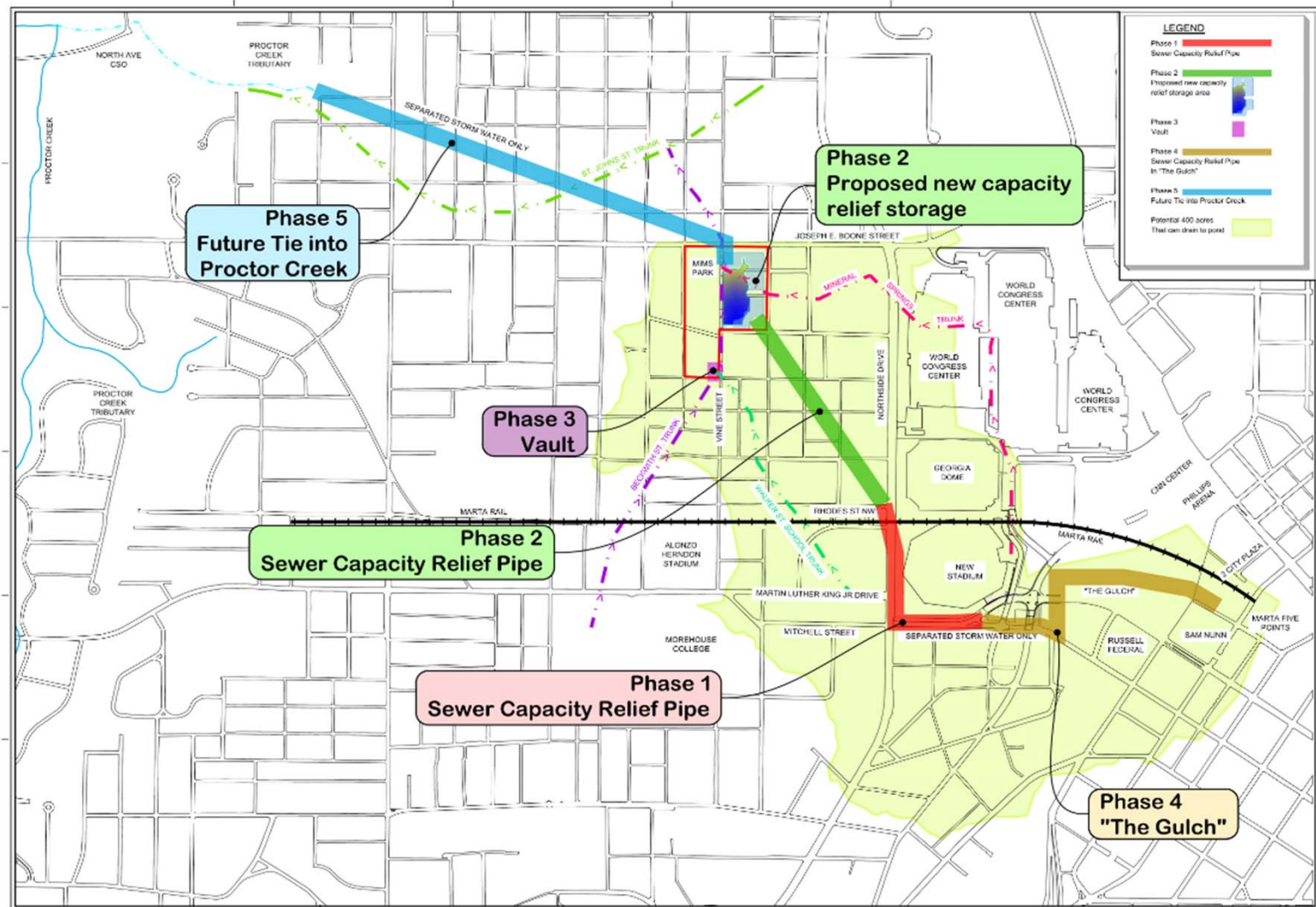


Future Mims Park Area Topo w/Combined Sewers





Upper Proctor Creek Basin – Capacity Relief Program



In order to sustain improvements downstream, work and projects must first occur in the "UPPER" reaches of the Proctor Creek Basin

LEGEND

- Phase 1
Sewer Capacity Relief Pipe
- Phase 2
Proposed new capacity relief storage area
- Phase 3
Vault
- Phase 4
Sewer Capacity Relief Pipe In "The Gulch"
- Phase 5
Future Tie into Proctor Creek
- Potential 400' zones That can drain to point

Phase 1
Sewer Capacity Relief Pipe

Phase 2
Sewer Capacity Relief Pipe

Phase 2
Proposed new capacity relief storage

Phase 3
Vault

Phase 4
"The Gulch"

Phase 5
Future Tie into Proctor Creek

Labels on map: PROCTOR CREEK, NORTH AVE CSO, PROCTOR CREEK TRIBUTARY, SEPARATED STORM WATER ONLY, ST. JAMES ST. TRUNK, MIMMIS PARK, JOSEPH E. BOONE STREET, MINERAL, TRUNK, WORLD CONGRESS CENTER, WORLD CONGRESS CENTER, GEORGIA DOME, NORTHEDGE DRIVE, MARTHA RAIL, ALDHO HERNDON STADIUM, MOREHOUSE COLLEGE, MARTIN LUTHER KING JR. DRIVE, MITCHELL STREET, SEPARATED STORM WATER ONLY, NEW STADIUM, MARTHA RAIL, THE GULCH, RUSSELL FUDRAN, SAM NUNN, MARTHA FIVE POINTS, CITY PLAZA, PHILLIPS AERIAL, CARL COTTON.





Multi-Phase – Capacity Relief Project

Objective

- Provide capacity relief
- Reduce CSOs
- Improve water quality

Project Description

- 400-acre drainage basin
- Flood relief for up to the 100-year (1%) stormwater event



A Multi-phase Capacity Relief Program

Objective

Address combined CSOs; provide capacity relief; improve water quality

Phase I

- Capacity Relief Pipeline Project - first of at least 5 coordinated projects
- Foundation of a larger program of capacity relief
- Public/Private Partnership with new Mercedes-Benz Stadium developer

Phase 2

- Will capture runoff in Mims Park area and allow for a much larger water feature and park amenity than community first envisioned with the Park Pride Study
- Water feature design incorporates the Green and walkways desired in the current Mims Park planning (reviewed by various parks partners)

A Multi-phase Capacity Relief Program

Objective

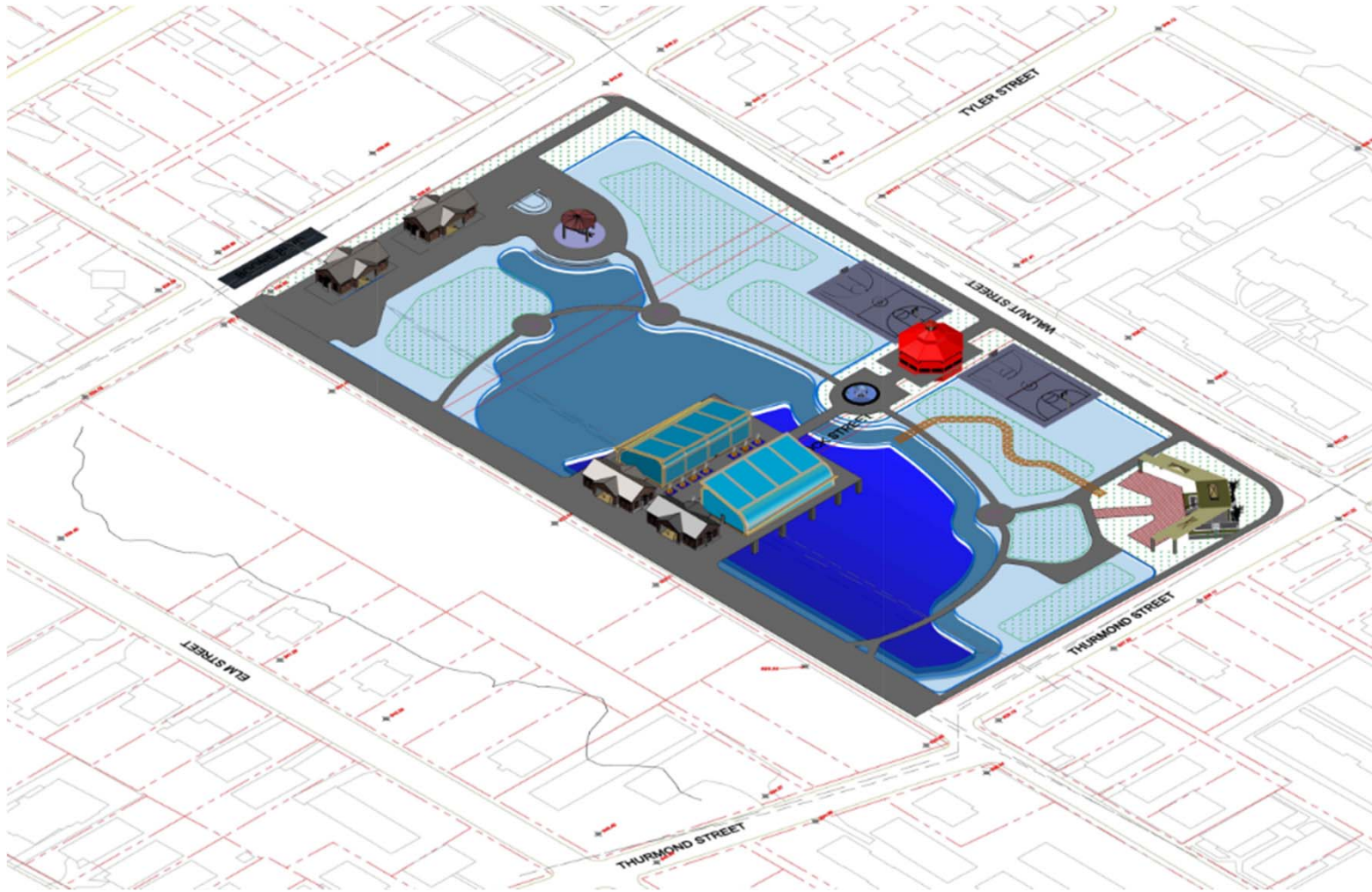
Address combined CSOs; provide capacity relief; improve water quality

Phase 3

- A combined 3-5 MG sewer vault, similar to the recently installed Turner Field media lot was considered if pond volume proved inadequate
- May still be required: Necessity and specific requirements for the vault will be determined during design for Phase 2
- If required, should be smaller, given the size of the Mims Park Pond



Phase 2 Early Water Feature Concept - Mims Park



A Multi-phase Capacity Relief Program

Phase 4

- A redirection of future runoff from developing “The Gulch” area
- Stormwater flows would be removed from the combined sewer
- Furthering the goal of eliminating combined sewer overflows

Phase 5

- Source for re-introducing controlled stream flows into the original streambed
- Opportunity to restore aquatic life to the properties that adjoin the stream
- Environmental concerns- flushing contaminants & trash in old streambed

The Overall Program

- Envisions further cost-sharing opportunities for future developments or redevelopments to share in the cost/benefits (in/around new stadium)
- Will provide near-term opportunities for large landowners to redirect some stormwater into the new capacity relief pipe and pond system
- Will incorporate plans already underway for various GI projects planned
- Local streets impacted by installation of the piping systems will be rehabilitated and improved to incorporate further GI elements and improve instances of localized ponding during heavy rain events.



Scope-of-Work, Costs and Timeline

Phase 1 – Mitchell and Northside Capacity Relief Piping

- Description: Design and install 60-inch pipe along Northside Drive/Dome and 36-inch pipe along Mitchell Street towards the Gulch
- Cost \$\$\$: \$ 10 M
- Project Time Line: Start Date: May 2015 End Date: Late 2016

Phase 2 – Vine City Capacity Relief Piping and Capacity Relief Storage Facility

- Description: Design and install 60-inch pipe from Northside Drive to Mims Park. Design and install the Mims Park Capacity Relief Storage Facility
- Cost \$\$\$: \$ 18 M (Design, Pipe Install, Capacity Relief Storage Facility install)
- Project Time Line: Start Date: May 2015 End Date: Late 2017

Phase 3 – 4 MG Storage Vault (based upon results of Phase 2 design)

- Description: Combined Sewer Relief Vault
- Cost \$\$\$: \$ 12 M
- Project Time Line: Start Date: June 2016 End Date: Late 2017



Scope-of-Work, Costs and Timeline

Phase 4 – Capacity Relief Pipe Network for “The Gulch”

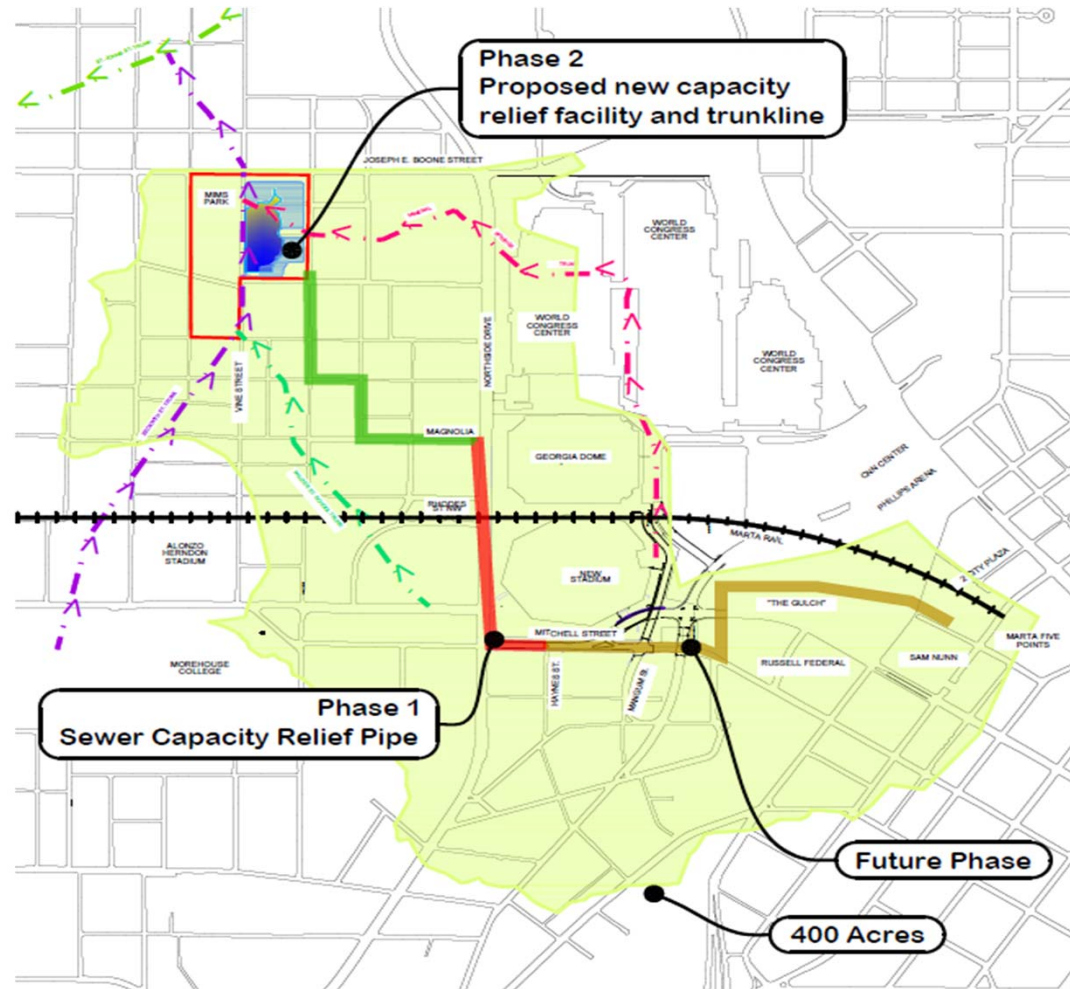
- Description: Design and install storm pipe and connect to Phase 1 capacity relief pipe network
- Cost \$\$\$: \$ 8 M ++
- Project Time Line: Start Date: Early 2018 End Date: Late 2020

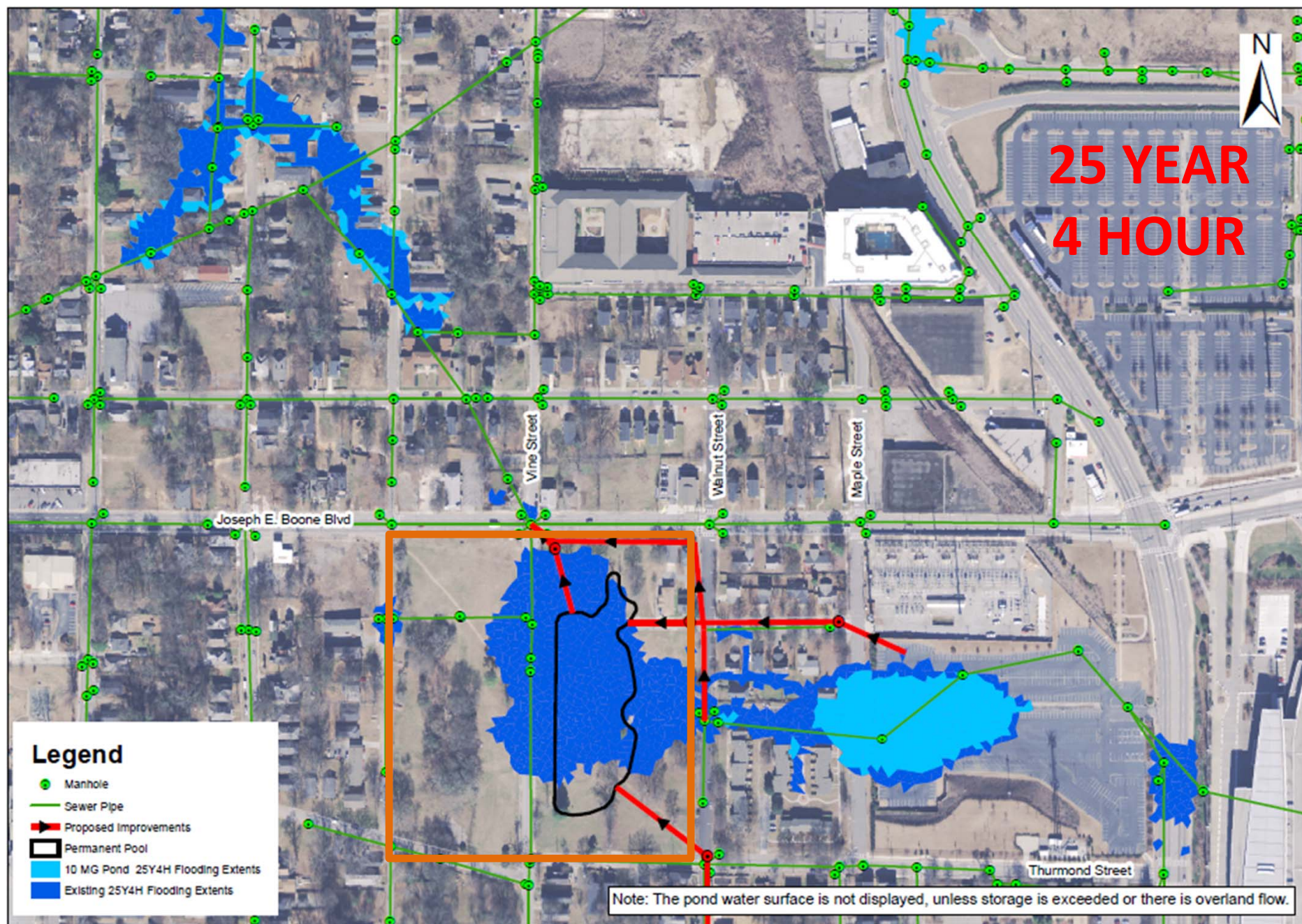
Phase 5 – Pump & Pipe – Environmental Costs/Concerns with Restoring Bank-full Stream Flow

- Description: Design/install of 72-inch pipe from Mims Park to Proctor Creek (assumed proximate to the North Avenue CSO facility)
- Cost \$\$\$: \$ 17 M
- Project Time Line: Start Date: Early 2019 End Date: Late 2020

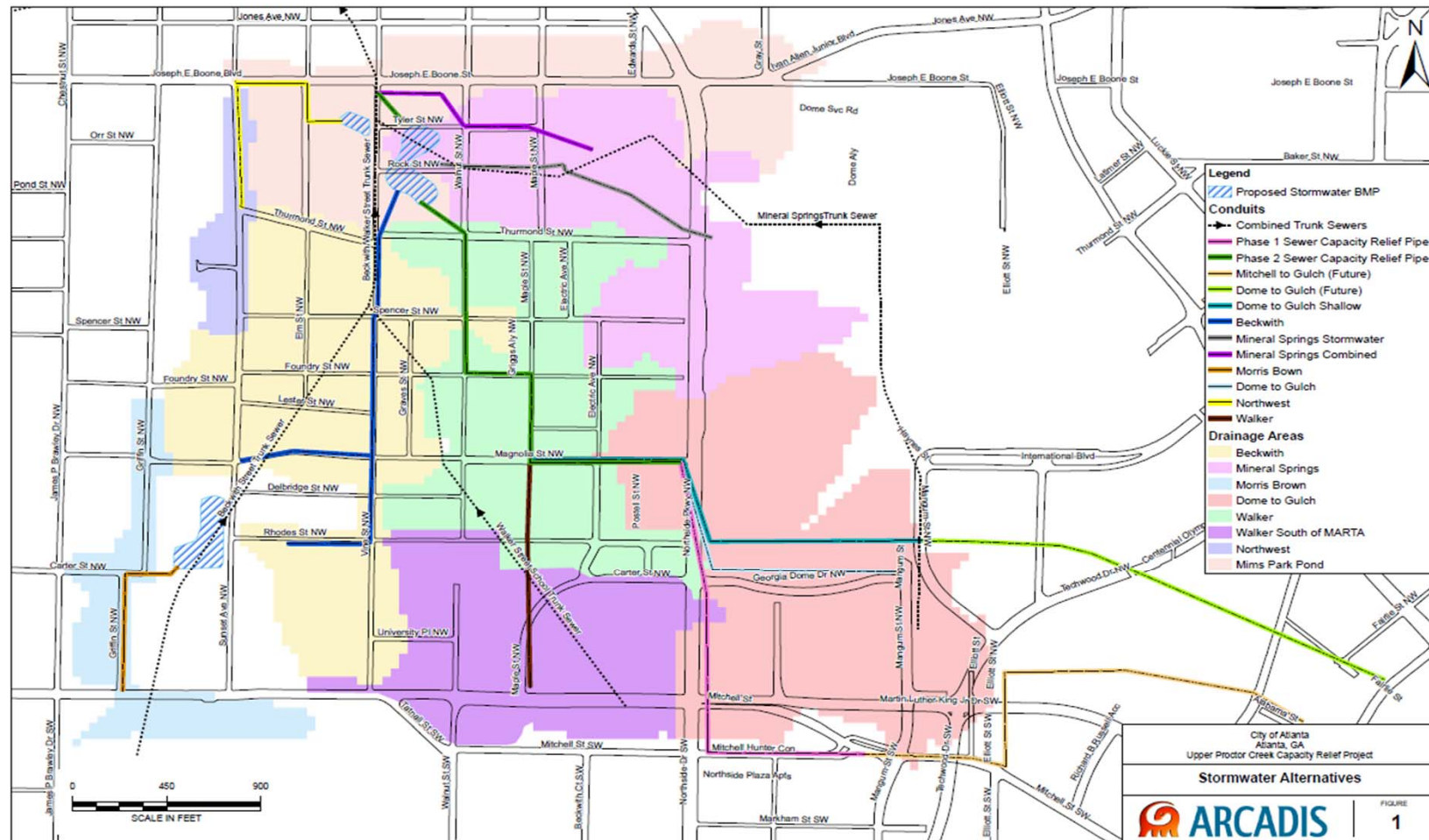


Modified Approach

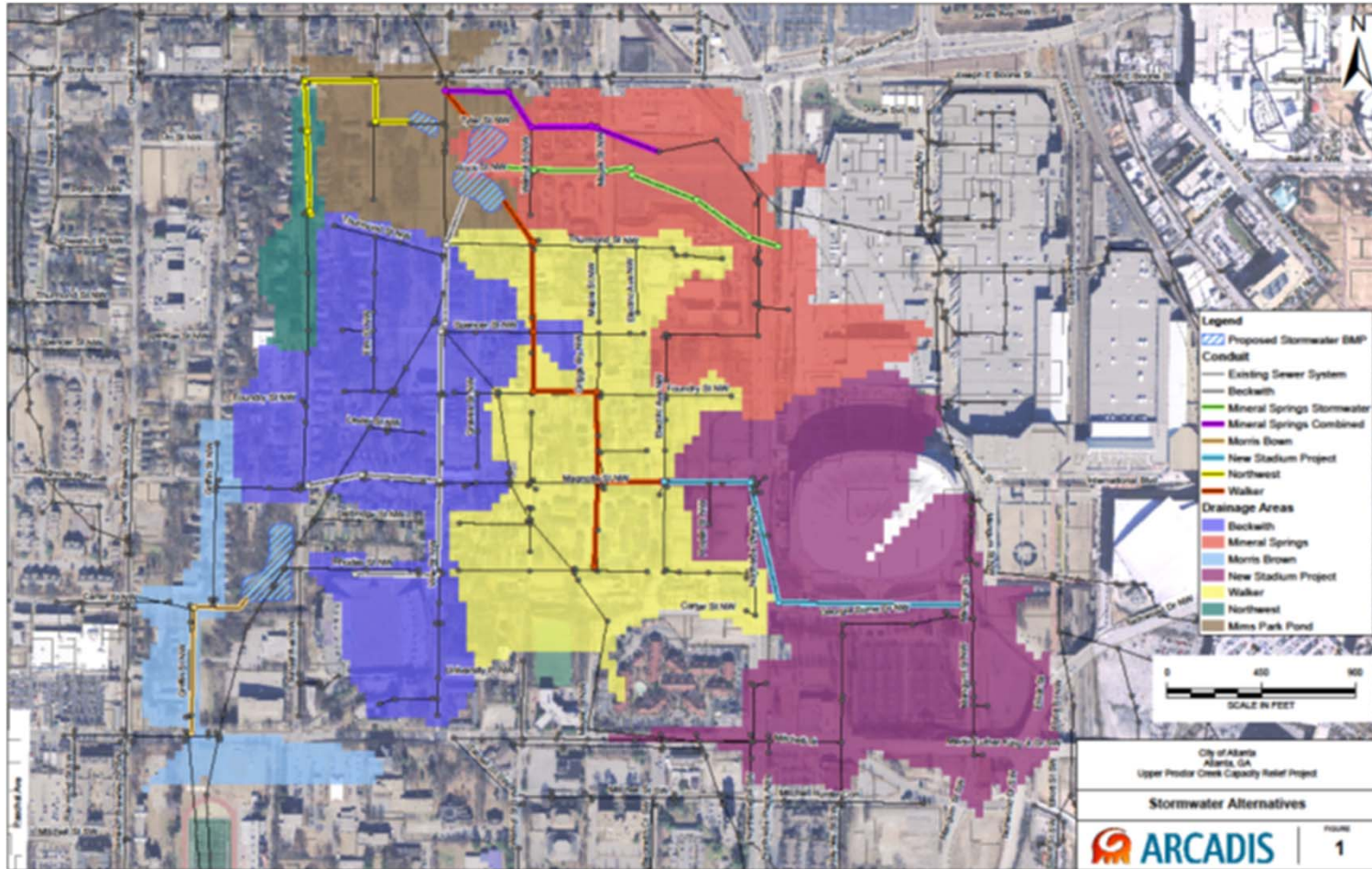




Pipelines Network Development



Storm Sub-Basin Alternatives



Multi-Phase – Capacity Relief Project

Phase A

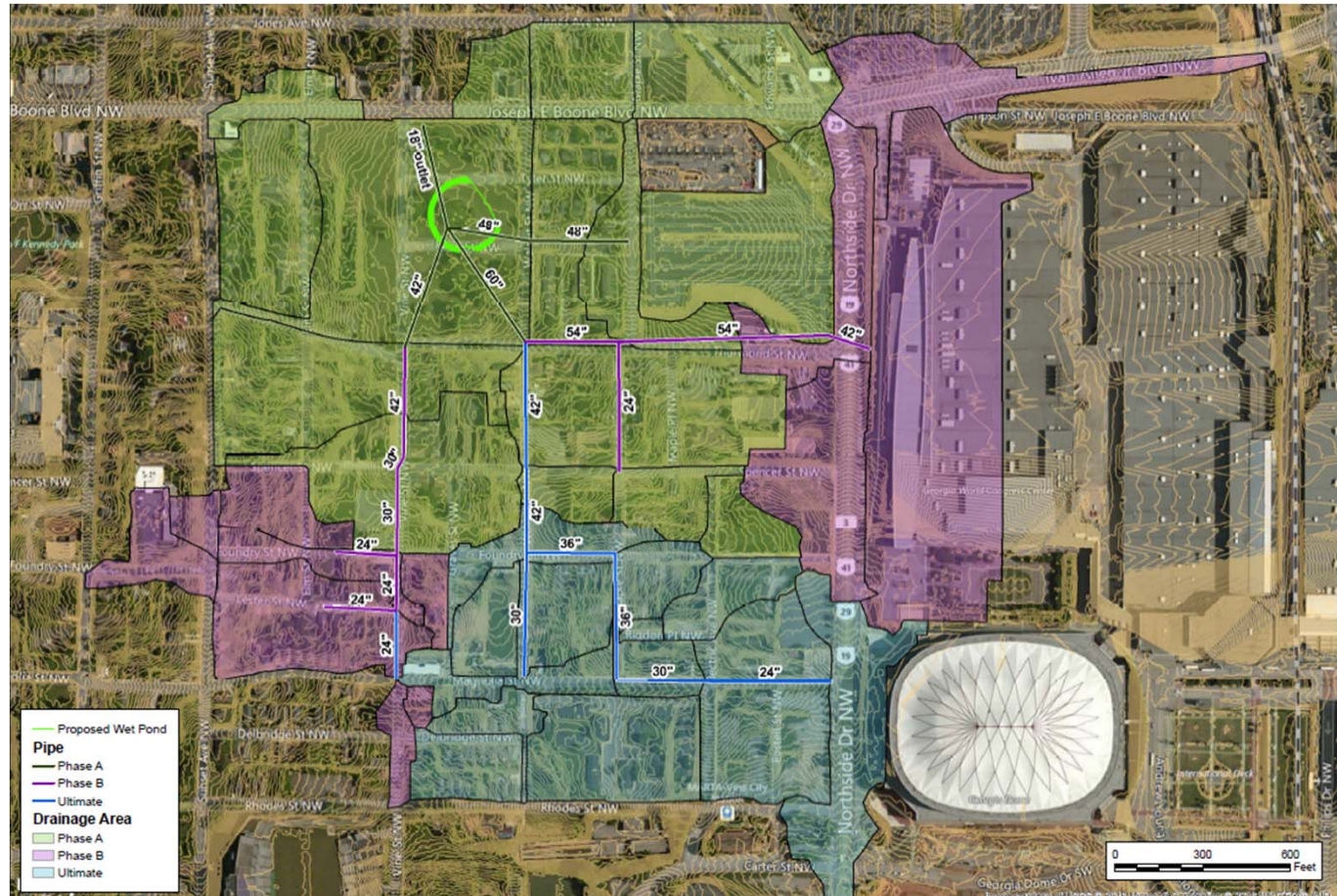
• 18	325
• 24	492
• 30	395
• 42	411
• 48	615
• 60	473

Phase B

• 24	1260
• 42	130
• 54	123

Ultimate

• 24	848
• 30	1303
• 36	730
• 42	710



Ga Power Transmission Line Relocation



Mims Park – Capacity Relief Project

Project Status

- Combined system analysis completed
- Pipe routing analysis completed
- Capacity relief concepts being finalized for CMAR procurement Dec 2016
- Ongoing coordination with Department of Parks and Recreation and Trust for Public Land- a private partner to construct the park
- Full park design moving forward and closer to completion- Separate construction (private procurement) to commence 3rd Qrt, 2017
- Next steps:
 - Procurement and Legislation
 - Permitting



Mims Park with Atlanta's New Skyline 2017 !



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City of Atlanta

Department of Watershed Management

Strategic Asset Management Division

