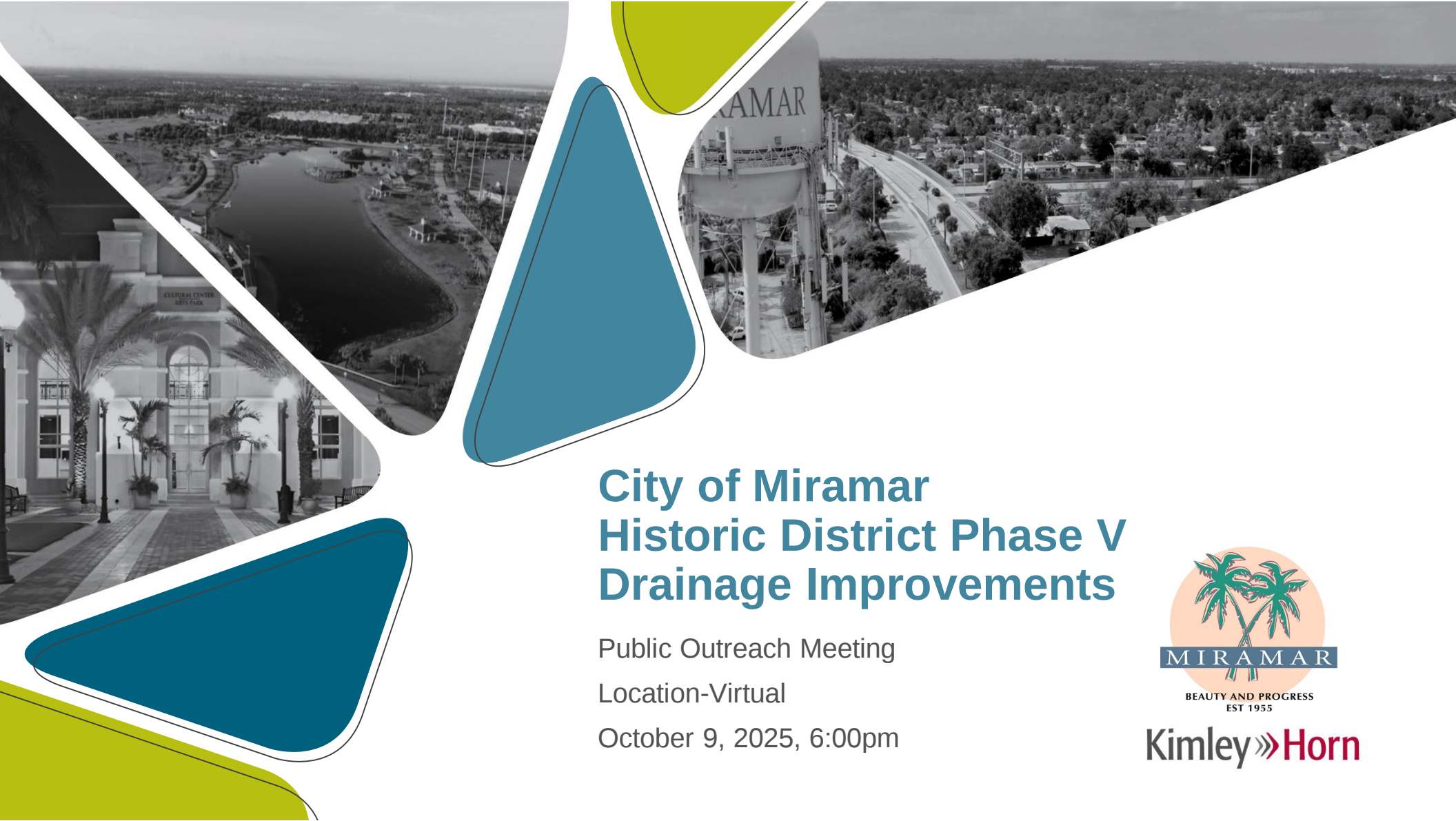




City of Miramar Historic District Phase V Drainage Improvements

Public Outreach Meeting

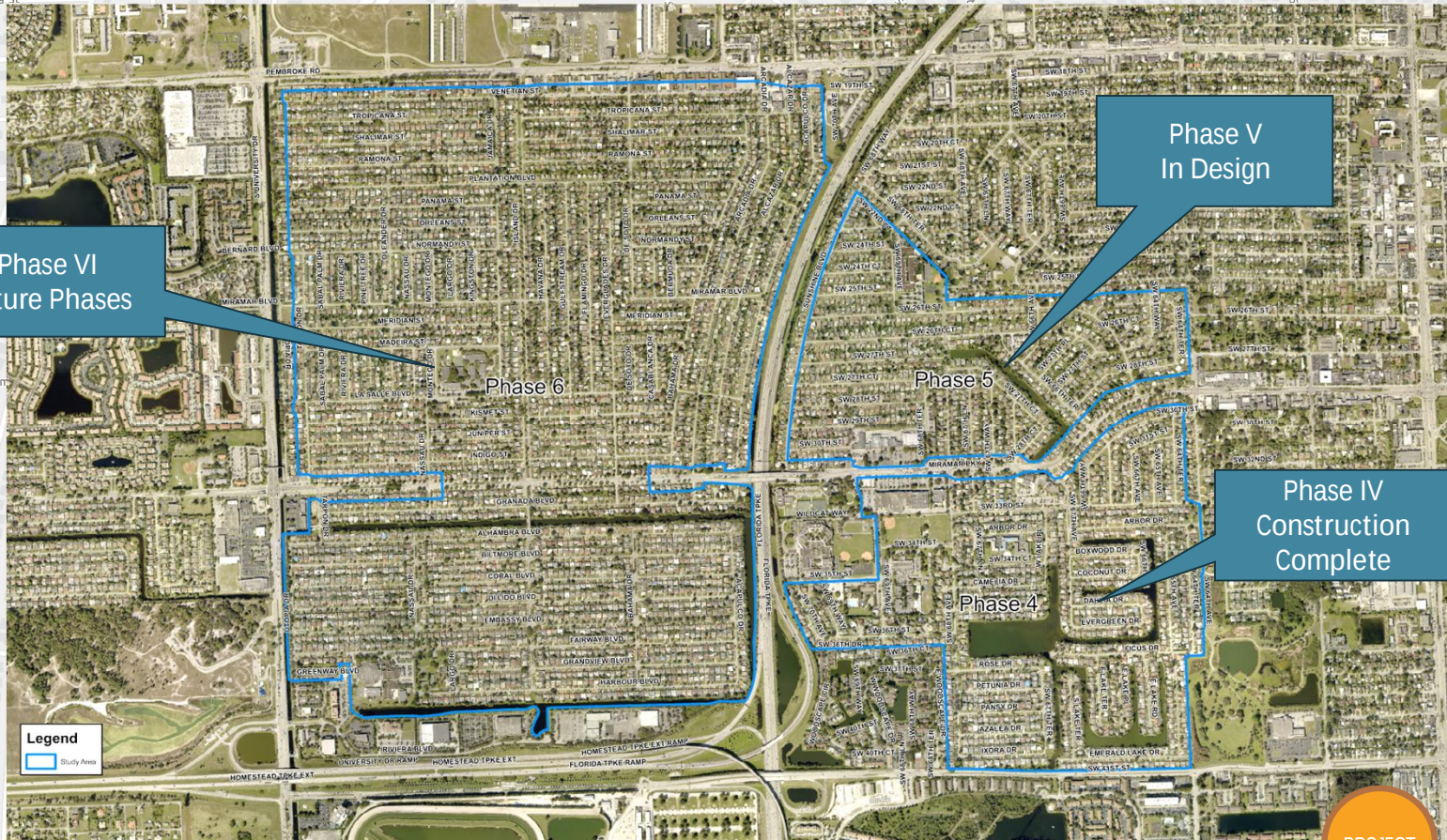
Location-Virtual

October 9, 2025, 6:00pm

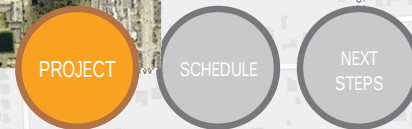


Kimley»Horn

Historic District Drainage Improvements



City of Miramar Historic District Phase V Drainage Improvements



Project Background

Miramar Stormwater Preliminary Design Report



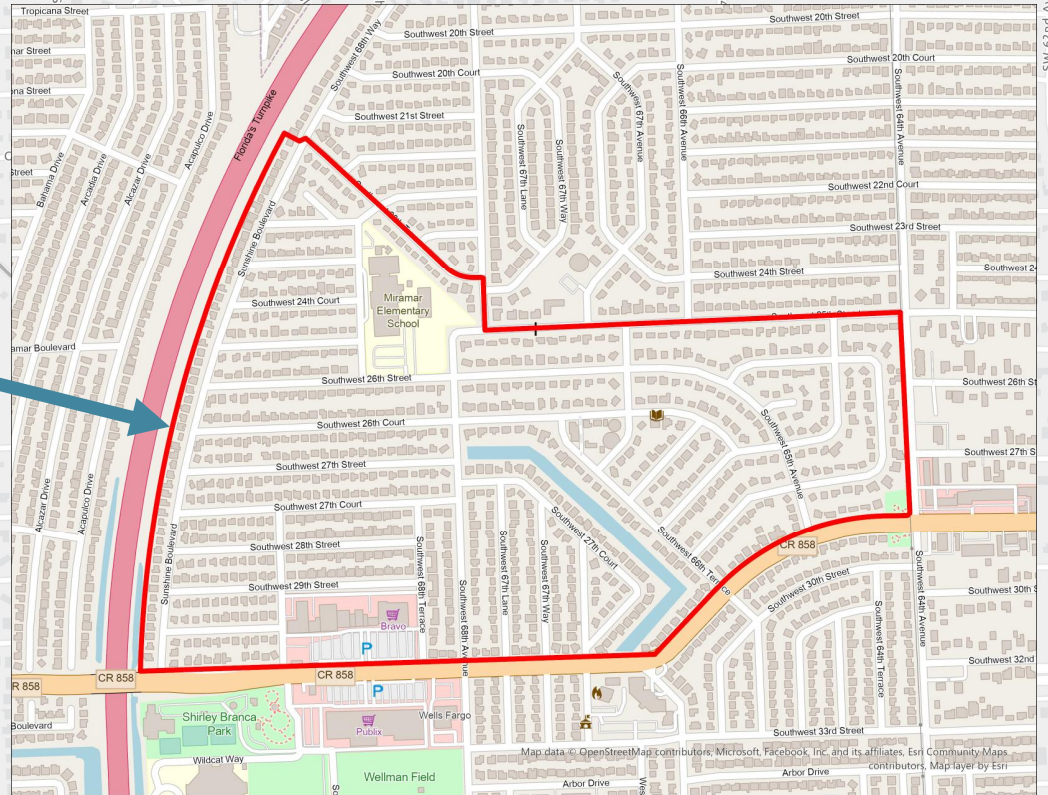
Historic Miramar Drainage Infrastructure Improvement
Project – Phases IV, V, and VI
City of Miramar
November 7, 2017

Prepared By:

AECOM

FBPE # B115

This project area was identified in Miramar's Stormwater Preliminary Design Report back in 2017 as part of a larger study area (Phase IV, V, and VI) which showed areas of flooding due to a lack of piping. With the design of this project, The City of Miramar aims to reduce the flooding in the project area.



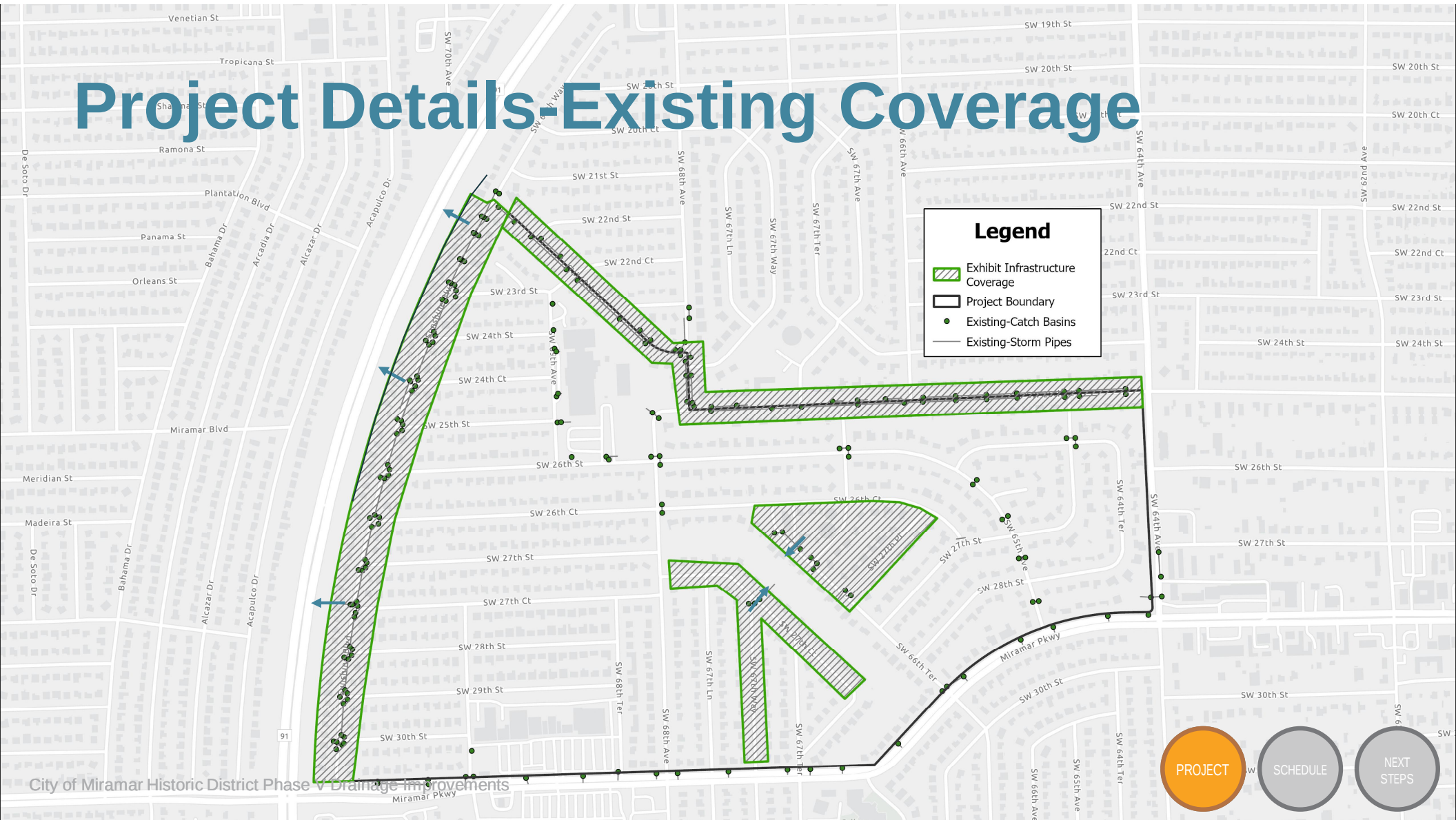
City of Miramar Historic District Phase V Drainage Improvements

PROJECT

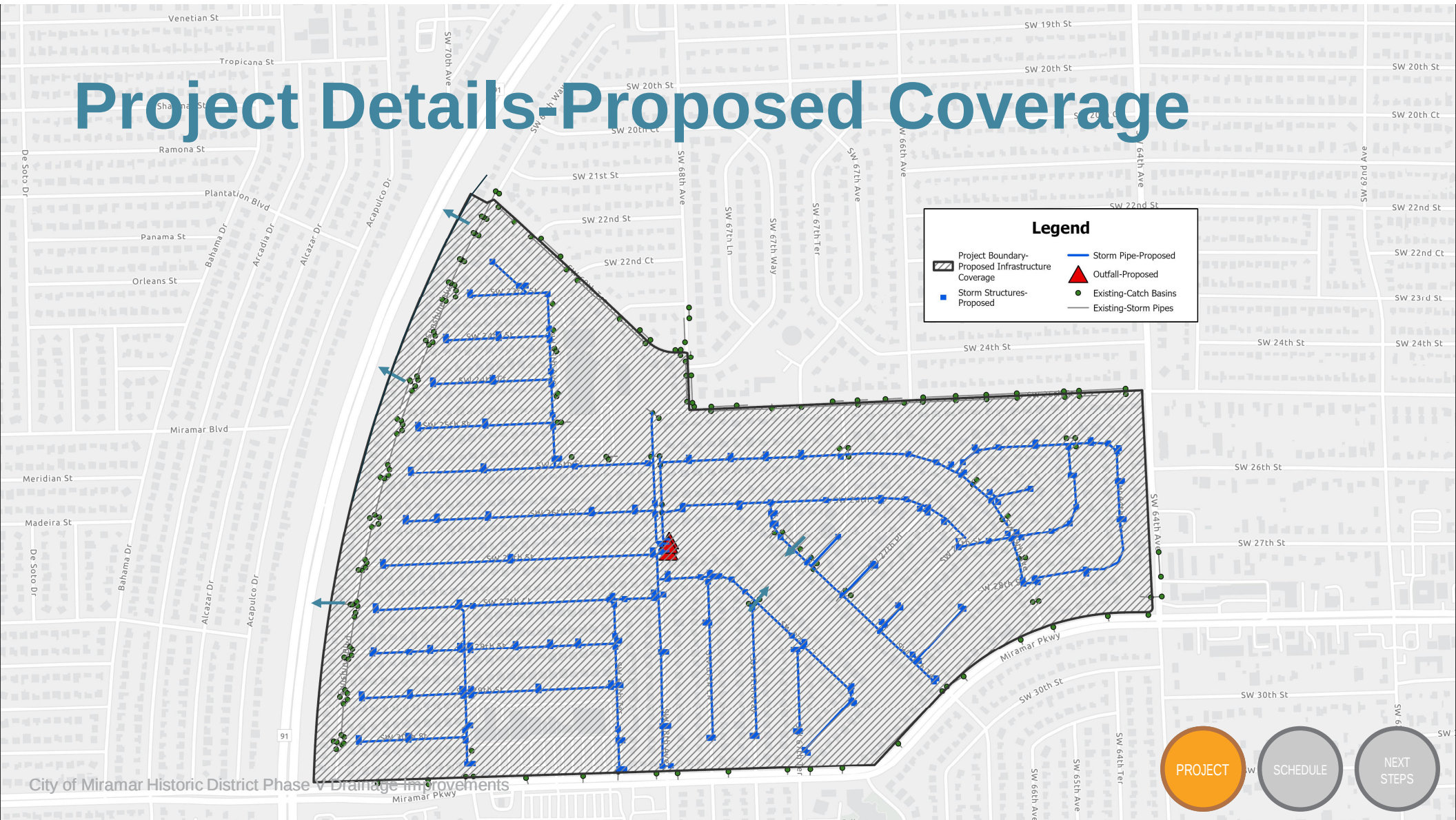
SCHEDULE

NEXT
STEPS

Project Details-Existing Coverage

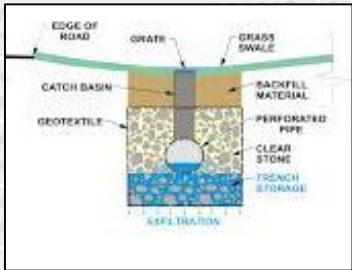


Project Details-Proposed Coverage

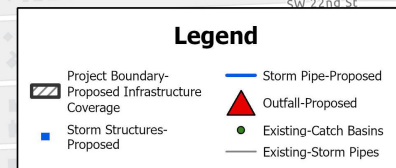


Project Details-Proposed Coverage

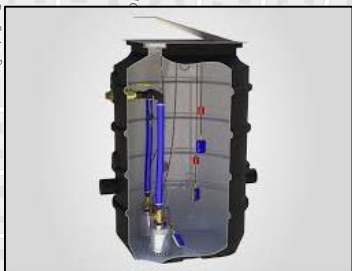
Outfalls to Pond



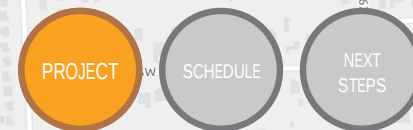
Exfiltration Trench
Where Possible



More Pipes
Throughout



Pump Station for
Southwest Section

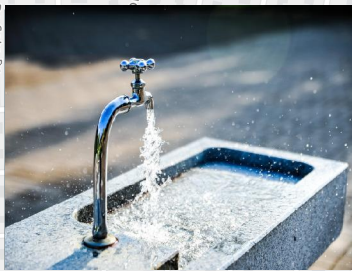


Project Details-Additional Design Features

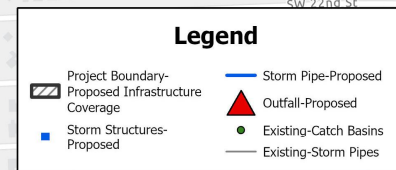
New Roadway



Valley Gutter
Where Possible



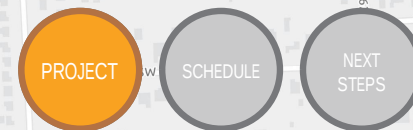
Water Main Replacement



New Sidewalk
Connections



Clean Existing Stormwater
Infrastructure



Project Details-Design Challenges

Wellfield Protection Zone 3

Only dry exfiltration where the bottom of trench is 1ft above the seasonal high water table

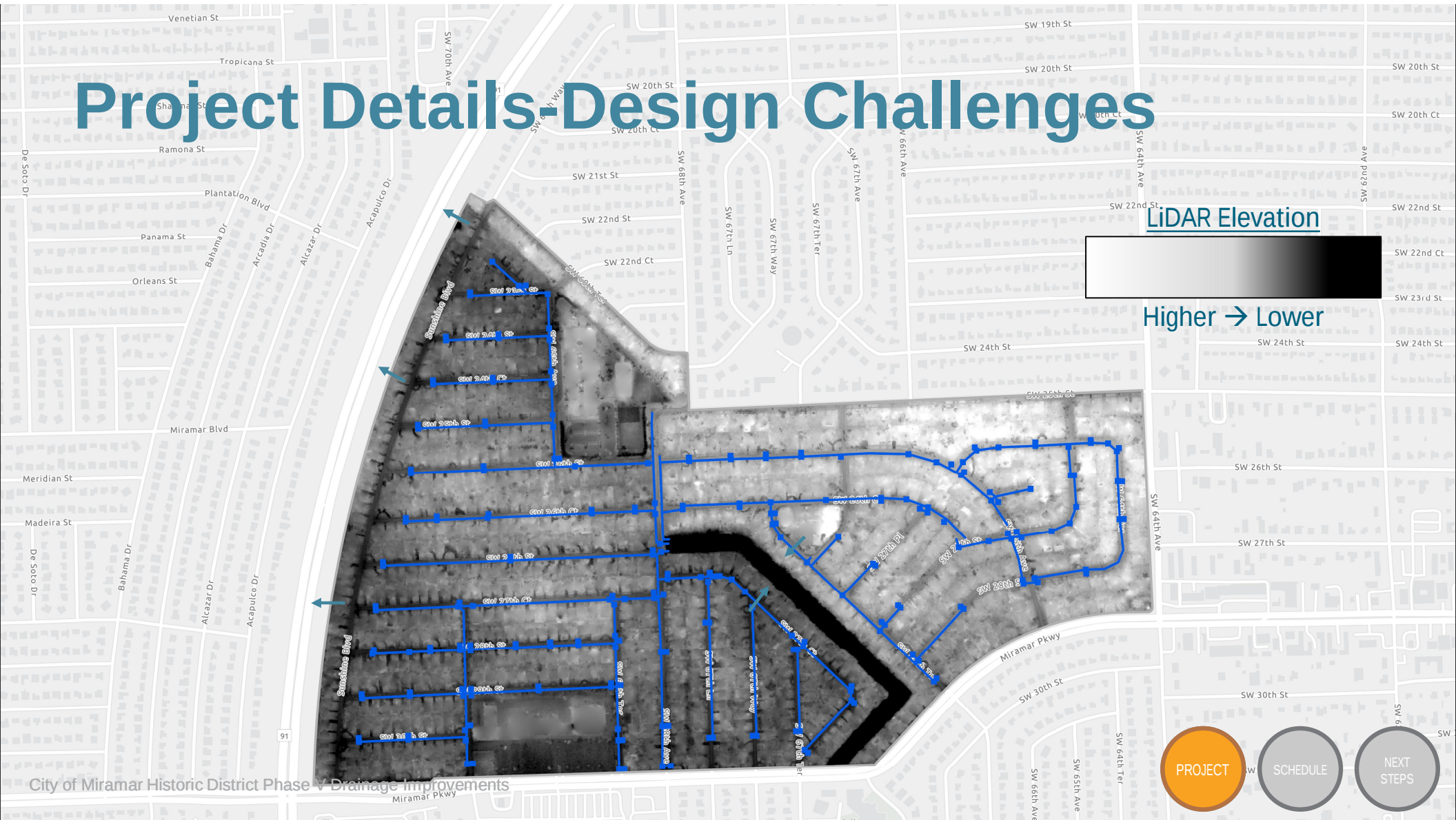
Wellfield Protection Zone 2

Only dry exfiltration where the bottom of trench is 1ft above the seasonal high water table

Wellfield Protection Zone 1

No exfiltration system allowed

Project Details-Design Challenges



Project Details-Design Challenges

LiDAR Elevation

Higher → Lower

No allowable
additional discharge

City of Miramar Historic District Phase V Drainage Improvements



Project Details-Project Impacts

Existing 5 Year
Storm Staging

5 Year Storm Heat Map
Stage Above Grade



Node	Roadway Elevation (ft-NAVD)	Existing Stage (ft-NAVD)	Proposed Stage (ft-NAVD)	Difference
E-01	5.41	4.62	4.62	0.0
E-02	5.52	5.27	4.6	-0.67
E-03	5.18	5.21	4.27	-0.94
E-04	5.26	5.27	4.7	-0.57
E-05	5.35	5.25	4.68	-0.57
E-06	5.26	5.25	4.68	-0.57
E-07	5.25	5.25	4.32	-0.93
E-08	5.26	5.22	4.32	-0.9
E-09	5.48	5.26	4.23	-1.03
E-10	5.06	5.26	4.23	-1.03
E-11	4.97	5.2	4.1	-1.1
E-12	4.98	5.2	4.11	-1.09
E-13	5.15	5.2	4.11	-1.09
NW-01	3.71	3.83	3.7	-0.13
NW-02	3.7	3.83	3.7	-0.13
NW-03	3.73	3.83	3.7	-0.13
NW-04	3.72	3.83	3.7	-0.13
NW-05	3.72	3.83	3.7	-0.13
NW-06	3.73	3.83	3.69	-0.14
NW-07	3.74	3.83	3.69	-0.14
NW-08	3.95	3.83	3.69	-0.14
Pond		3.83	3.69	-0.14
Sunshine Blvd		3.83	3.69	-0.14
SW-01	3.27	3.83	3.69	-0.14
SW-02	3.83	3.83	3.69	-0.14
SW-03	3.83	3.83	3.69	-0.14
SW-04	3.83	3.83	3.69	-0.14
SW-05	3.83	3.83	3.69	-0.14
SW-06	3.83	3.83	3.69	-0.14
SW-07	3.83	3.83	3.69	-0.14
SW-08	3.76	3.84	3.7	-0.14
SW-09	3.78	3.87	3.7	-0.17
SW-10	3.78	3.87	3.7	-0.17
SW-11	3.74	3.87	3.7	-0.17
SW-12	3.59	3.87	3.7	-0.17

City of Miramar Historic District Phase V Drainage Improvements

PROJECT

SCHEDULE

NEXT
STEPS

Project Details-Project Impacts

Post Design 5 Year
Storm Staging

5 Year Storm Heat Map
Stage Above Grade



Node	Roadway Elevation (ft-NAVD)	Existing Stage (ft-NAVD)	Proposed Stage (ft-NAVD)	Difference
E-01	5.41	4.62	4.62	0.0
E-02	5.52	5.27	4.6	-0.67
E-03	5.18	5.21	4.27	-0.94
E-04	5.26	5.27	4.7	-0.57
E-05	5.35	5.25	4.68	-0.57
E-06	5.26	5.25	4.68	-0.57
E-07	5.25	5.25	4.32	-0.93
E-08	5.26	5.22	4.32	-0.9
E-09	5.48	5.26	4.23	-1.03
E-10	5.06	5.26	4.23	-1.03
E-11	4.97	5.2	4.1	-1.1
E-12	4.98	5.2	4.11	-1.09
E-13	5.15	5.2	4.11	-1.09
NW-01	3.71	3.83	3.7	-0.13
NW-02	3.7	3.83	3.7	-0.13
NW-03	3.73	3.83	3.7	-0.13
NW-04	3.72	3.83	3.7	-0.13
NW-05	3.72	3.83	3.7	-0.13
NW-06	3.73	3.83	3.69	-0.14
NW-07	3.74	3.83	3.69	-0.14
NW-08	3.95	3.83	3.69	-0.14
Pond		3.83	3.69	-0.14
Sunshine Blvd		3.83	3.69	-0.14
SW-01	3.27	3.83	3.69	-0.14
SW-02	3.83	3.83	3.69	-0.14
SW-03	3.83	3.83	3.69	-0.14
SW-04	3.83	3.83	3.69	-0.14
SW-05	3.83	3.83	3.69	-0.14
SW-06	3.83	3.83	3.69	-0.14
SW-07	3.83	3.83	3.69	-0.14
SW-08	3.76	3.84	3.7	-0.14
SW-09	3.78	3.87	3.7	-0.17
SW-10	3.78	3.87	3.7	-0.17
SW-11	3.74	3.87	3.7	-0.17
SW-12	3.59	3.87	3.7	-0.17

City of Miramar Historic District Phase V Drainage Improvements

PROJECT

SCHEDULE

NEXT STEPS

Project Funding Opportunities

State Revolving Fund
Loan



City of Miramar
Stormwater Funds



City of Miramar Historic District Phase V Drainage Improvements



Project Impacts



- Move rainwater off roadways and to underground exfiltration trench
- Increase conveyance using pipes to pond



- Reduce neighborhood flooding and property damage due to flooding
- Keep roadways clear of flooding for traffic



- Enhance rainwater percolation back into the ground
- Reduce excess nutrients that can be carried by stormwater to waterways



Questions?

City of Miramar Historic District Phase V Drainage Improvements



Scan the QR code for more project information



City of Miramar Historic District Phase V Drainage Improvements

