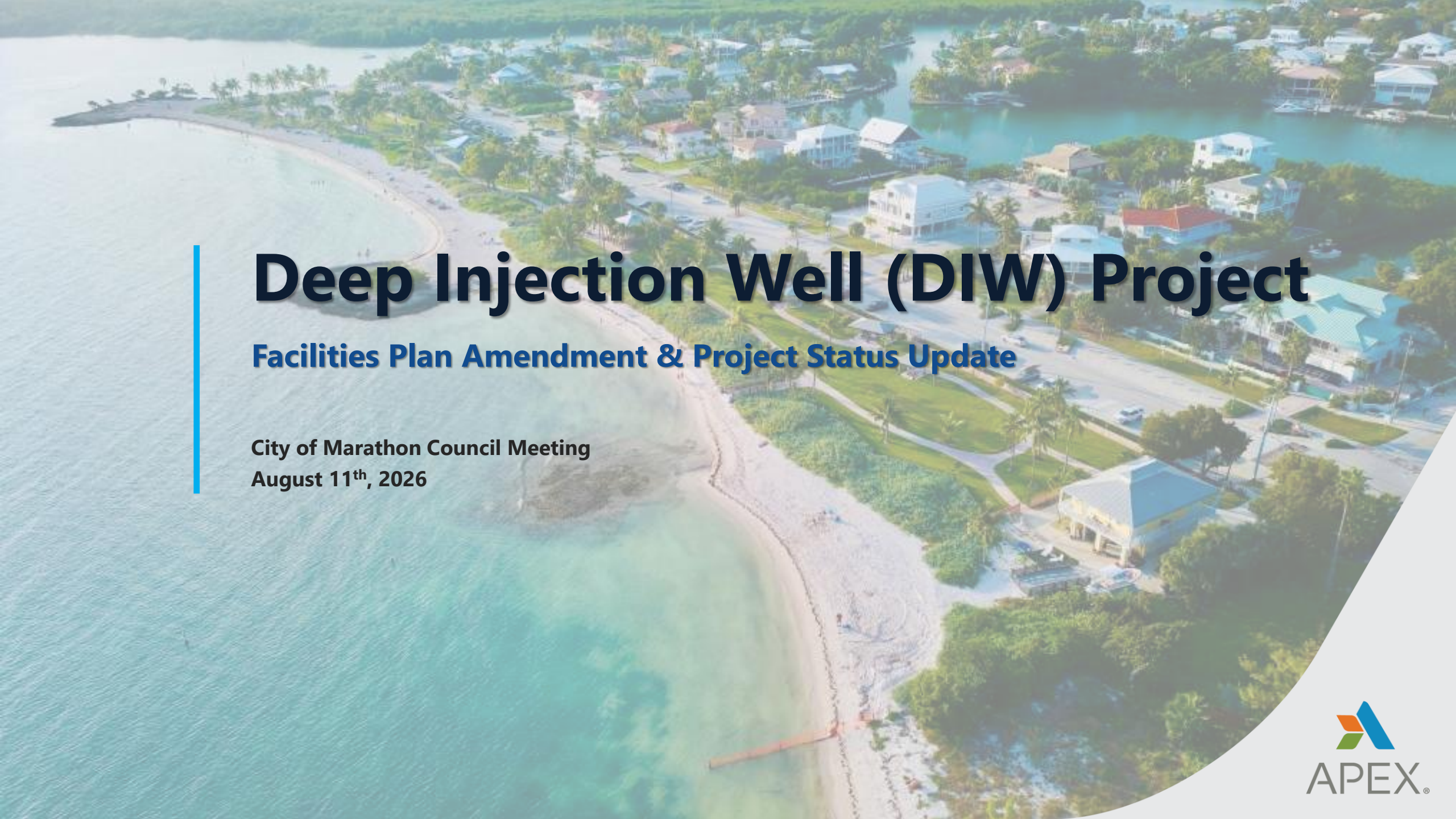




Deep Injection Well (DIW) Project

Facilities Plan Amendment & Project Status Update

**City of Marathon Council Meeting
August 11th, 2026**

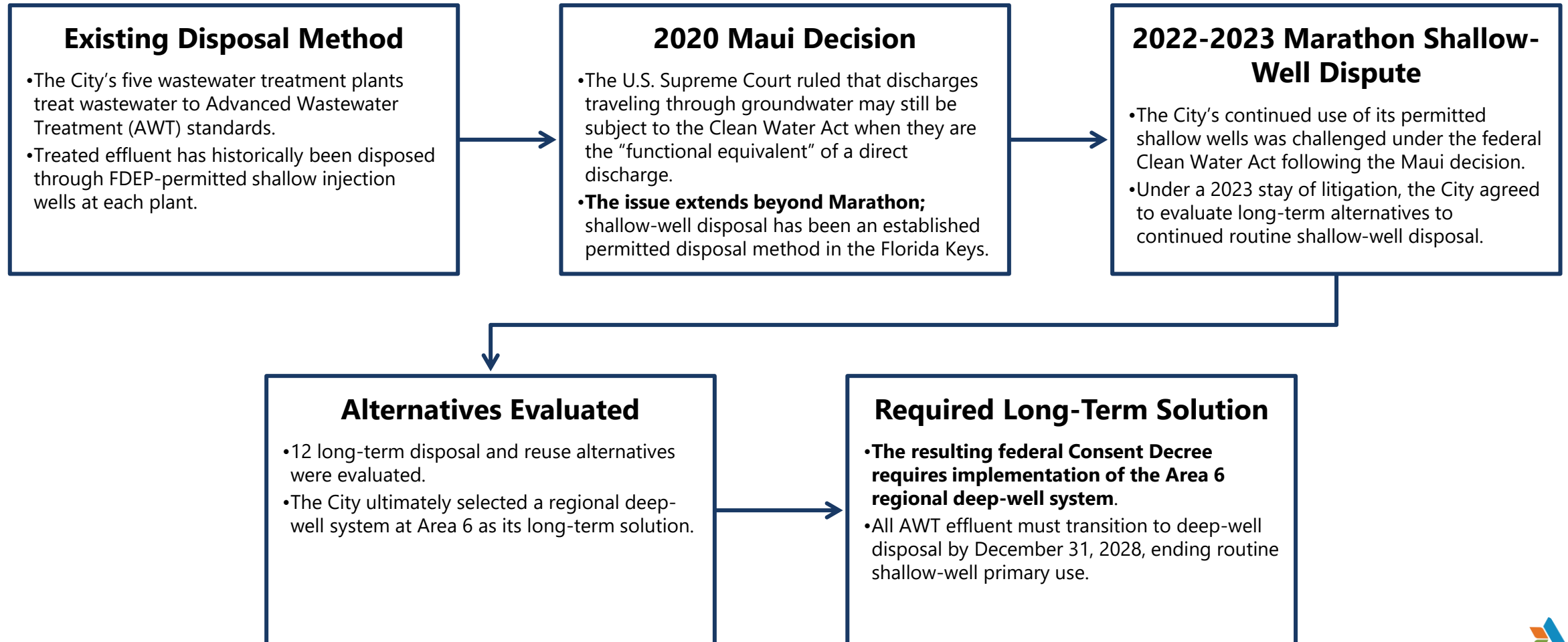
| Agenda

1. Project Overview
2. Active Construction Update
3. Facilities Plan Amendment
4. Funding & Financial Planning
5. Next Steps

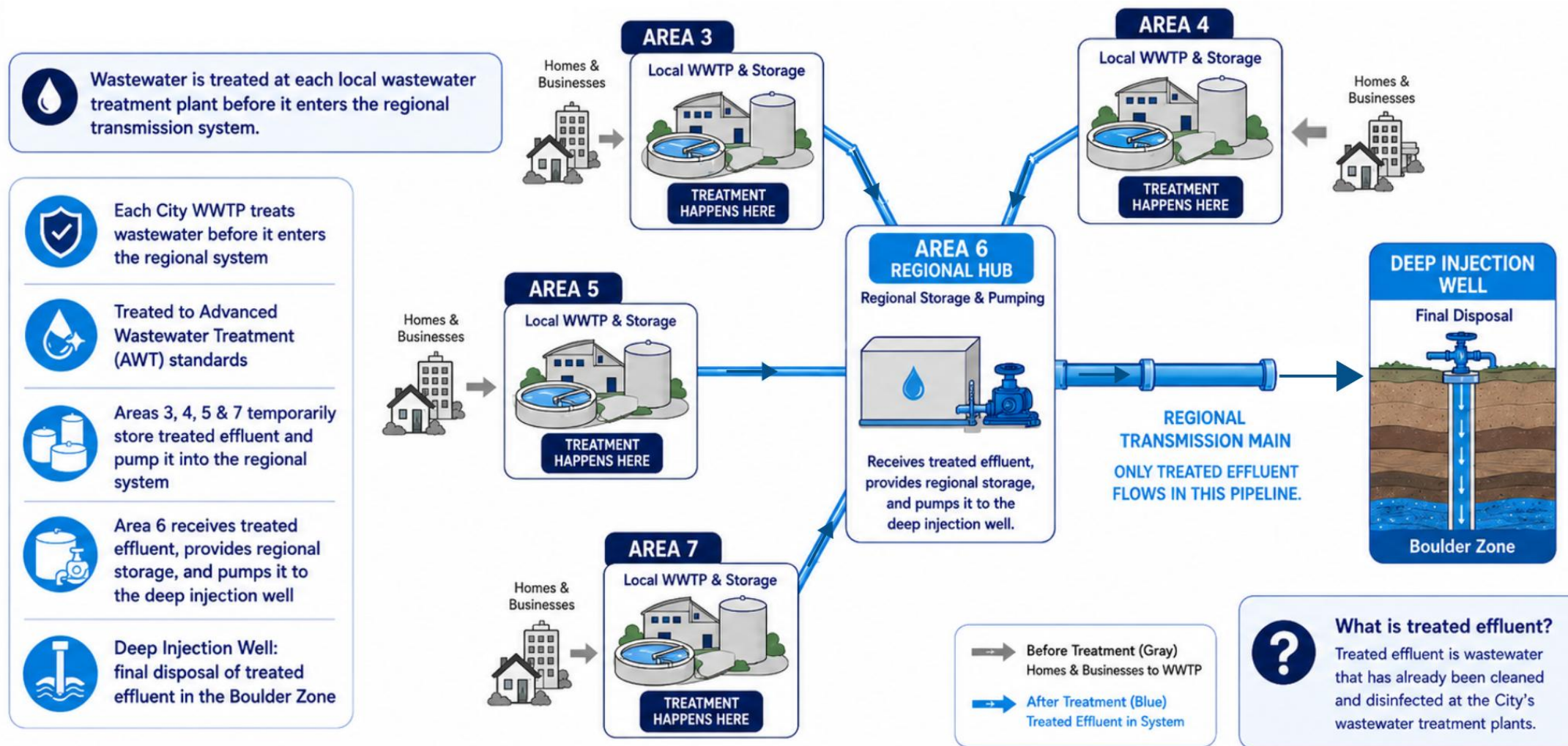
1 | Project Overview

Project Need | System Concept | Phasing

How the City Arrived at the Regional Deep-Well System



What's Actually Being Transported?



2 | Active Construction Update

Construction Progress | Upcoming Milestones

Phase 1 MOT

Early August MOT



107th Street to 115th Street

Mid-August MOT *(anticipated)*



83rd Street to 72nd Street

3

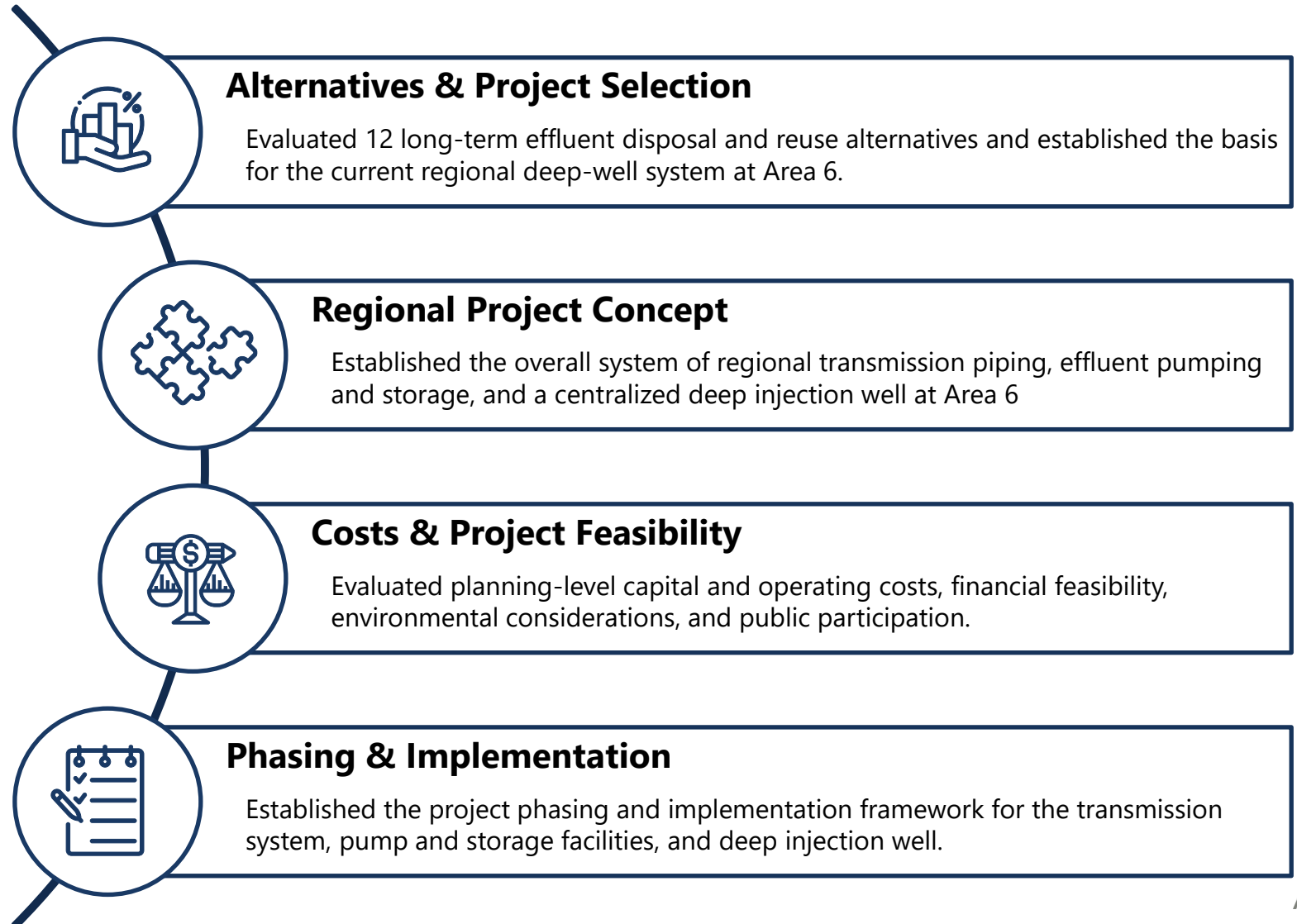
Facilities Plan Amendment

Updated Facilities | Costs | Implementation

What the Original Facilities Plan Established

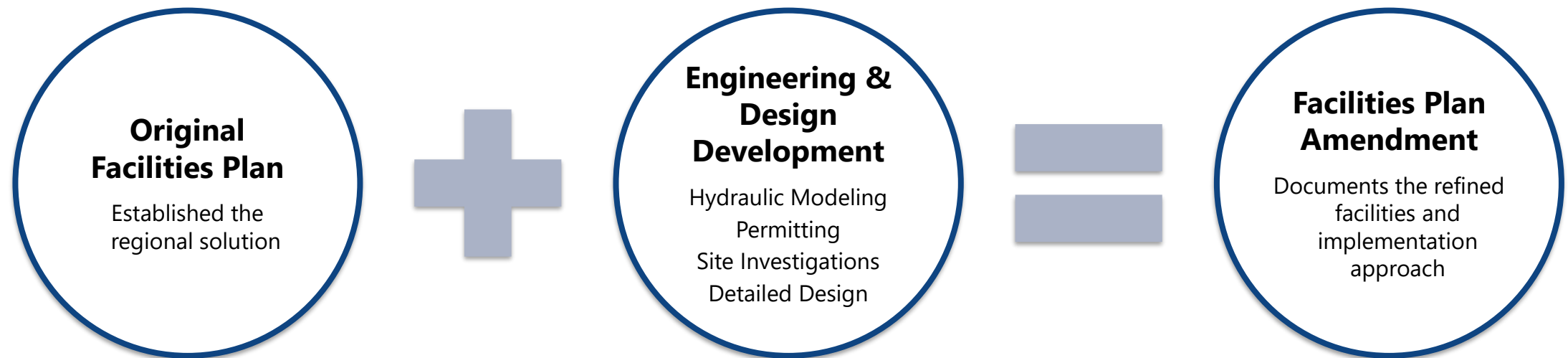
What is a Facilities Plan?

A Facilities Plan defines the project need, evaluates alternatives, identifies the recommended approach, and establishes the basis for costs, funding, environmental review, and implementation.



How the Plan Has Been Refined

As engineering and design have advanced, the specific facilities needed to implement the selected regional system have been further defined.



The selected regional disposal alternative remains unchanged

What the Amendment Includes

Phase 4A WWTP Effluent Holding Tanks & Transfer Pumps

New effluent storage, pumping, disinfection, electrical, and control improvements at Areas 3, 4, 5, and 7, including replacement mudwells and limited-use backup shallow wells where required.

Phase 4B Area 6 Facility

Regional effluent receiving, storage, and deep-well pumping; treatment and disinfection improvements; centralized residuals management and City-owned dewatering; and supporting electrical, controls, standby power, operations, and site improvements.

Phase 5 Deep Injection Well & Monitoring Well

Construction of the deep injection well and monitoring well, including wellheads, instrumentation, testing, monitoring, development, and commissioning.

Phase 4A – WWTP Effluent Holding Tanks & Transfer Pumps

Each remote WWTP will be equipped to temporarily store treated effluent and pump it into the regional transmission system. The specific improvements vary by plant based on existing facilities and hydraulic conditions.

Area 3 Integrated Storage & Disinfection

- Integrated clearwell, chlorine contact chamber, and effluent holding tank
- Transfer pumps
- Two limited-use backup shallow wells
- Replacement mudwell

Area 5 Effluent Storage

- Effluent holding tank
- Transfer pumps
- Existing disinfection facilities remain in service

Area 4 Integrated Storage & Disinfection

- Integrated chlorine contact and effluent holding tank
- Transfer pumps
- Replacement mudwell

Area 7 Integrated Storage & Disinfection

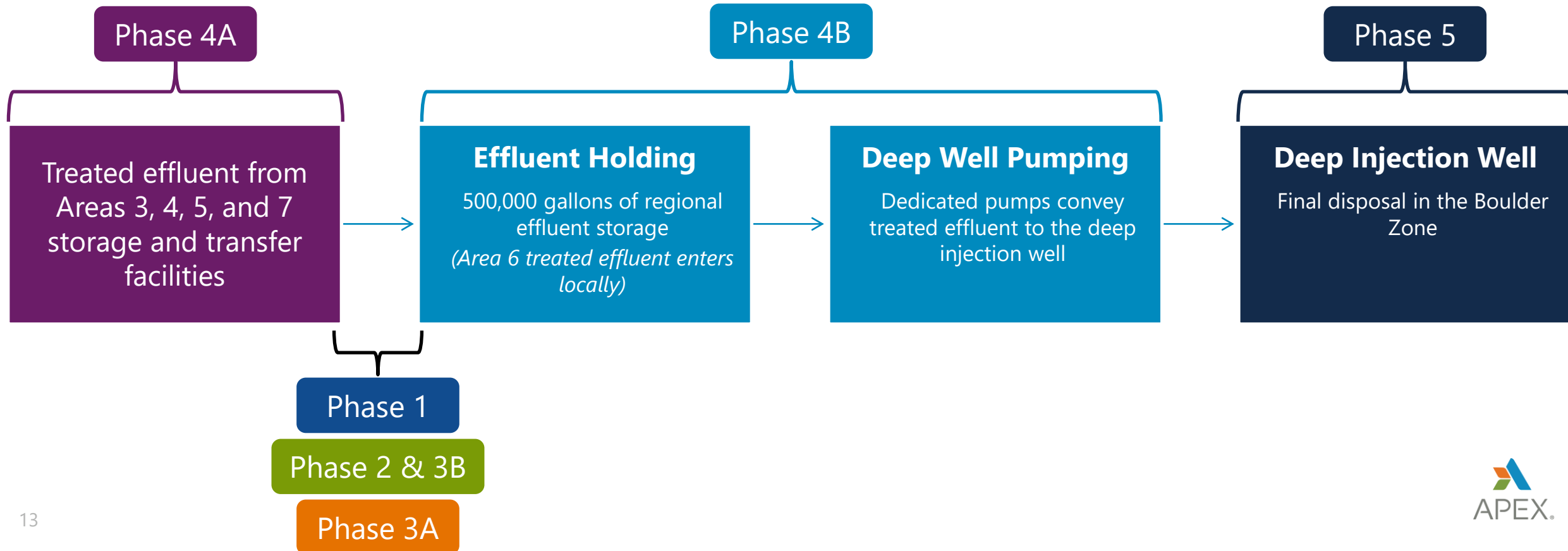
- Integrated chlorine contact and effluent holding tank
- Transfer pumps
- Replacement mudwell

Common to all sites:

Electrical • Controls & SCADA • Flow/level monitoring • Piping • Site improvements • Testing & startup

Phase 4B – Area 6 Facility

Area 6 will serve as the receiving and operating hub of the regional system, where treated effluent from the City's WWTPs is stored and pumped to the deep injection well.



Phase 4B – Area 6 Facility

Treatment & Disinfection

- Equalization and headworks improvements
- Existing digester converted to a fourth SBR
- New disc filtration
- Clearwell and chlorine-contact facilities
- Common blower improvements

Residuals Management

- Centralized residuals receiving, storage, and thickening
- Permanent City-owned dewatering system
- Return-flow treatment and routing

Operations and Controls

- Elevated operations and laboratory building
- Electrical service, MCCs, instrumentation, and SCADA
- Standby power and regional system controls

Reliability & Site Improvements

- Two limited-use backup shallow wells
- Flood and hurricane hardening
- Corrosion-resistant materials
- Access, drainage, lighting, fencing, and site improvements

Design Alternatives Considered

Phase 4A

Storage & Disinfection

Selected: Integrated tank configurations where needed

Avoids additional intermediate pumping and reduces energy, controls, maintenance, and operational complexity

Mudwells

Selected: Corrosion-resistant replacement mudwells

Avoids continued recoating and reduces long-term maintenance at Areas 3, 4, and 7.

Phase 4B

Area 6 Facility

Selected: Integrated facility construction

Allows treatment, effluent management, residuals, electrical, controls, and operations systems to share infrastructure and construction.

Residuals Dewatering

Selected: Permanent City-owned dewatering system

Provides reliable dewatering and greater long-term operating control compared with continued dependence on contracted equipment.

Environmental & Resiliency Considerations

Environmental Considerations

- Improvements are primarily located at existing City wastewater facilities and previously disturbed areas
- No direct wetland impacts are anticipated
- Routine effluent disposal will transition from shallow wells to deep injection
- Construction impacts are minimized by using existing utility sites and disturbed areas

Coastal Resiliency

- Facilities are located within Marathon's coastal floodplain and designed for flood and hurricane conditions
- Critical electrical, control, laboratory, and operations functions are elevated or otherwise protected
- Structures are designed for flood, wind, and uplift loads
- Corrosion-resistant materials are incorporated for the marine environment

The refined design minimizes environmental impacts while improving the long-term reliability and resilience of the regional system.

Cost Update as Design Has Advanced

The original Facilities Plan included planning-level costs for these facilities.

As design has advanced and the scope has been more fully defined, those estimates have been updated.



Design & Permitting Status

Current Progress | Milestones

Phase 5 Status

Recent Progress

Deep injection well and monitoring well permit application submitted to FDEP.

FDEP issued a Request for Additional Information on July 23, 2026.

Current Work

Coordinate with FDEP regarding the July 23 RAI; permit review remains underway.

Design is advancing toward 90% completion.

Next Milestone

Complete the RAI process, receive the permit, and finalize construction documents for bidding.



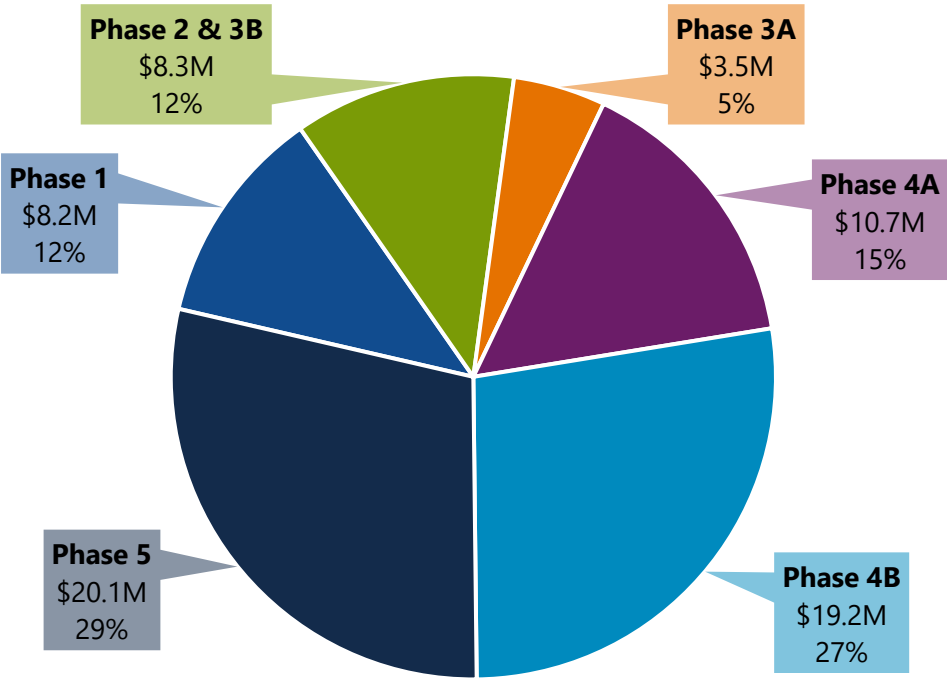
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Funding & Financial Planning

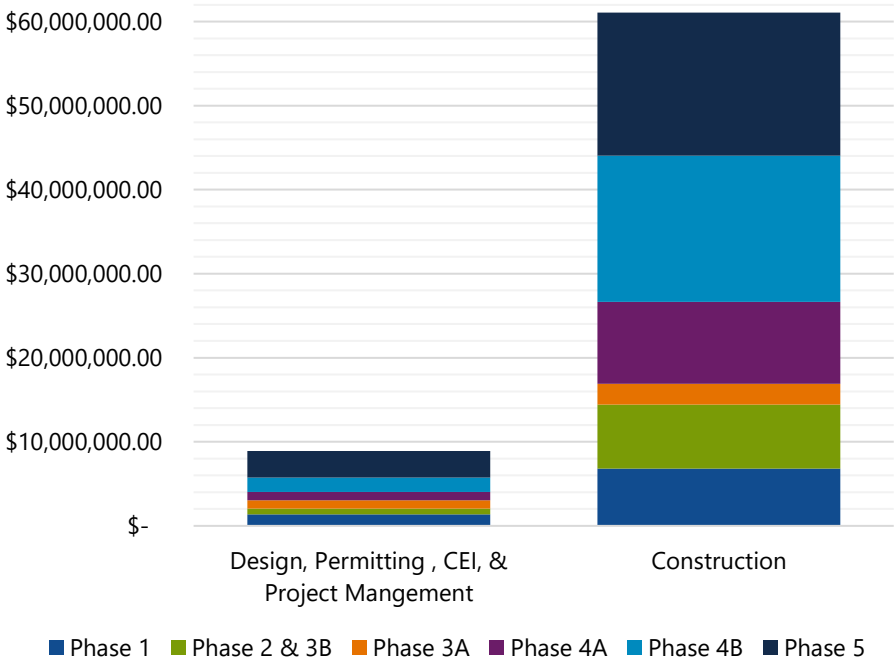
Funding Sources | Financial Outlook

Overall Program Estimate

The current base program estimate is approximately **\$70.0 million**, including design, permitting, construction, CEI, and project management across all phases.



Cost by Project Phase



Cost by Project Activity

How the Project is Being Funded

State Appropriations

Non-Repayable

Funding authorized through the State of Florida budget for specific public projects.

These funds do not need to be repaid and reduce the amount the City must finance..

Grant Funding

Non-Repayable

Non-repayable funding that reduces the amount the City needs to finance.

Resilient Florida

Supports flood and sea-level-rise resilience projects.

- Requires an equal local match

Florida Keys Area of Critical State Concern (FKACSC)

Supports water-quality and wastewater infrastructure projects in the Florida Keys.

Statewide Water Quality Restoration (SWQR)

Supports statewide water-quality restoration and infrastructure projects.

State Revolving Fund (SRF)

Long-Term Financing

Low-interest financing repaid over time through wastewater utility revenues.

Current Strategy: Additional SRF funding is expected to be requested in future funding cycles.

Funding Limit: FDEP may apply an annual per-sponsor segment cap when demand exceeds available funding.

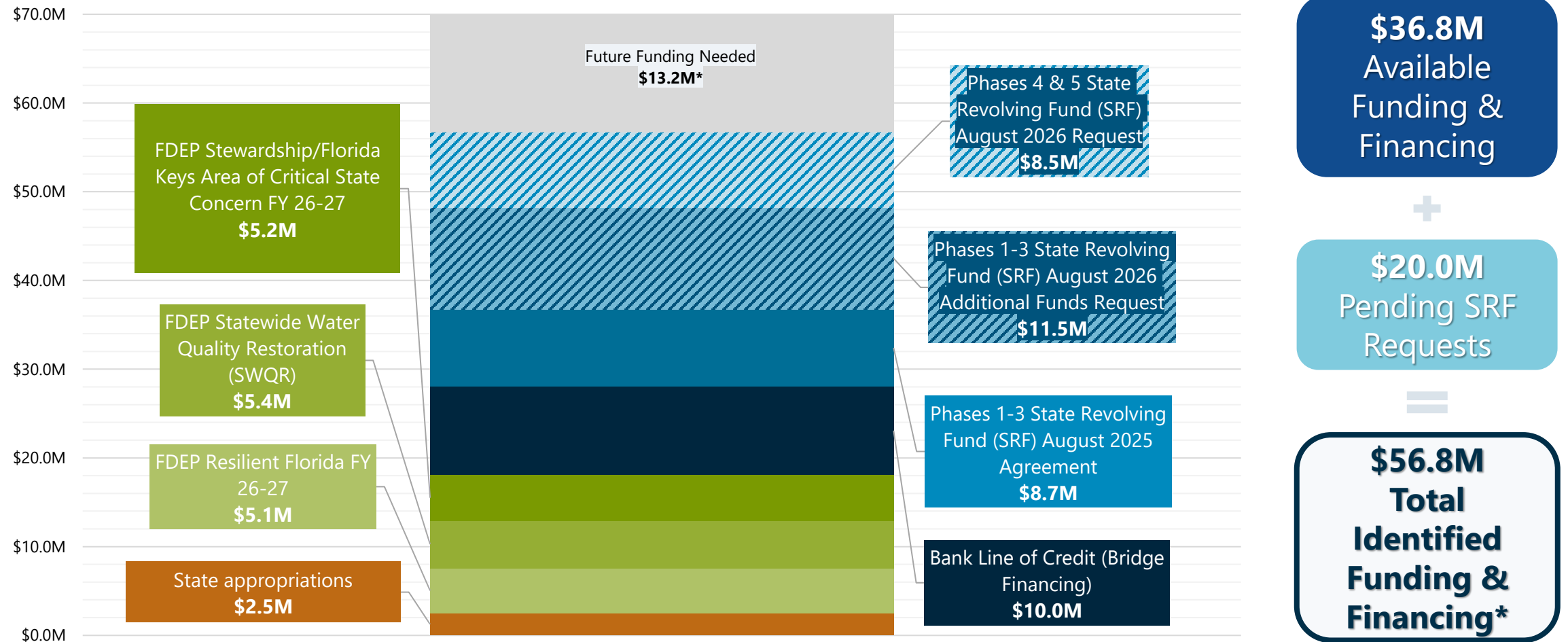
Temporary Bridge Financing

Short-Term Financing

The \$10 million bank line provides short-term cash flow while longer-term SRF financing is secured.

The bank line is expected to be repaid or replaced with SRF proceeds.

Funding



*The \$10.0 million bank line is temporary and is expected to be repaid or replaced with future SRF financing. Including replacement of the bank line, the remaining long-term funding strategy is **approximately \$23.2 million**.

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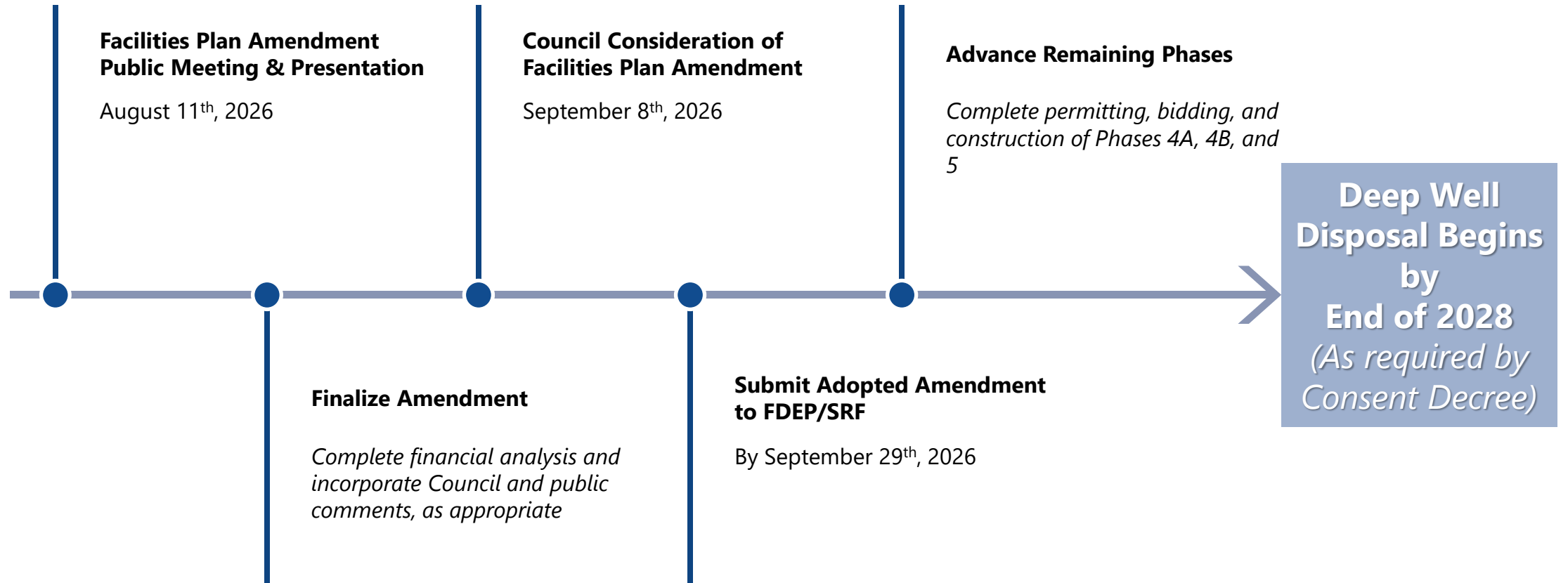
Next Steps

Upcoming Milestones | Project Completion

Project Status at a Glance

Phase	Primary Scope	Stage	Current Status	Next Milestone
Phase 1	Areas 3, 4 & 5 Transmission Main	Construction	Active; October completion target	Complete construction & closeout
Phase 2 & 3B	Area 7 to Vaca Cut Transmission Main	Construction	NTP issued; MOT documentation and submittals underway	Receive FDOT approval and begin field work
Phase 3A	Robert H. Dopp Memorial Bridge to Area 6 WWTP Transmission Main	Closeout	Main construction complete; minor restoration remains	Complete walkthrough, punch list, and closeout
Phase 4A	WWTP Effluent Holding Tanks & Transfer Pumps	Design & Permitting	Area 4 and Area 5 WWTP permits issued; Area 4 minor modification to follow. Area 3 and Area 7 permits under review	Submit the Area 4 application, receive final permits, and proceed to bidding.
Phase 4B	Area 6 Facility	Design & Permitting	Design approximately 30% complete; permitting coordination underway	Submit permit application to FDEP
Phase 5	Deep Injection Well and Monitoring Well	Design & Permitting	Deep injection well permit under FDEP review; design advancing toward 90%	Receive permit and finalize bid documents

Program-Level Next Steps



Questions & Discussion

Public comment on the Facilities Plan Amendment may be provided at this time.