





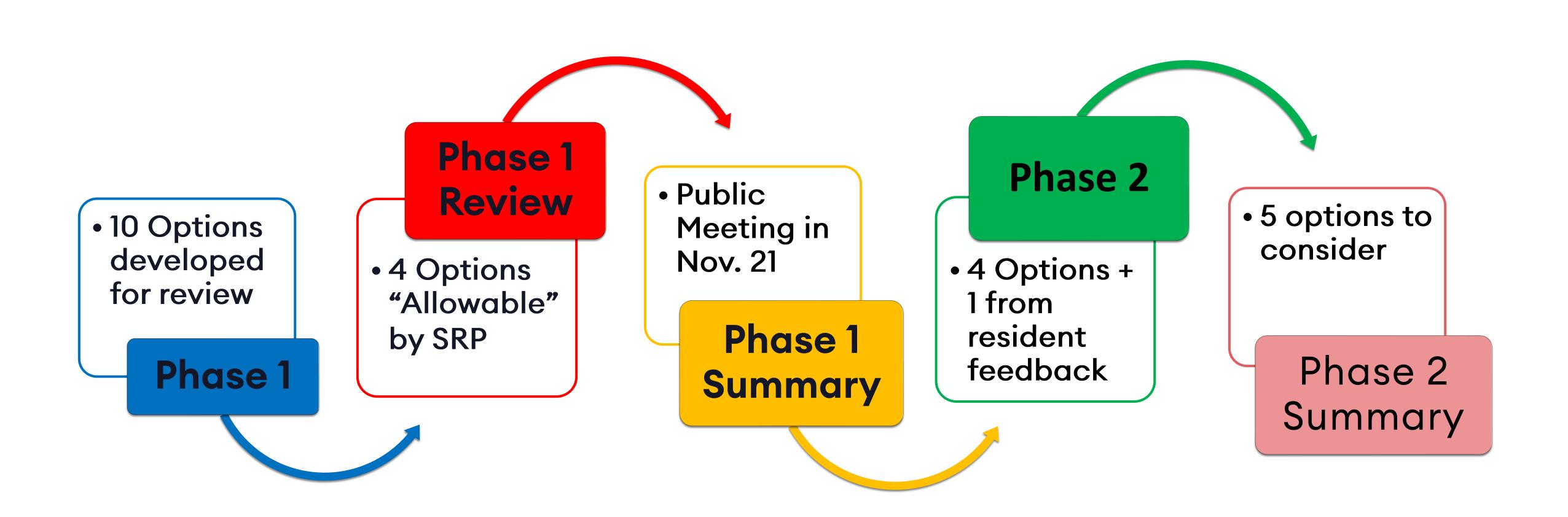


Shaping a new tomorrow, today.

Western Canal Corridor Analysis (WW1060, WW1246, WA1546)

Corridor Analysis Summary

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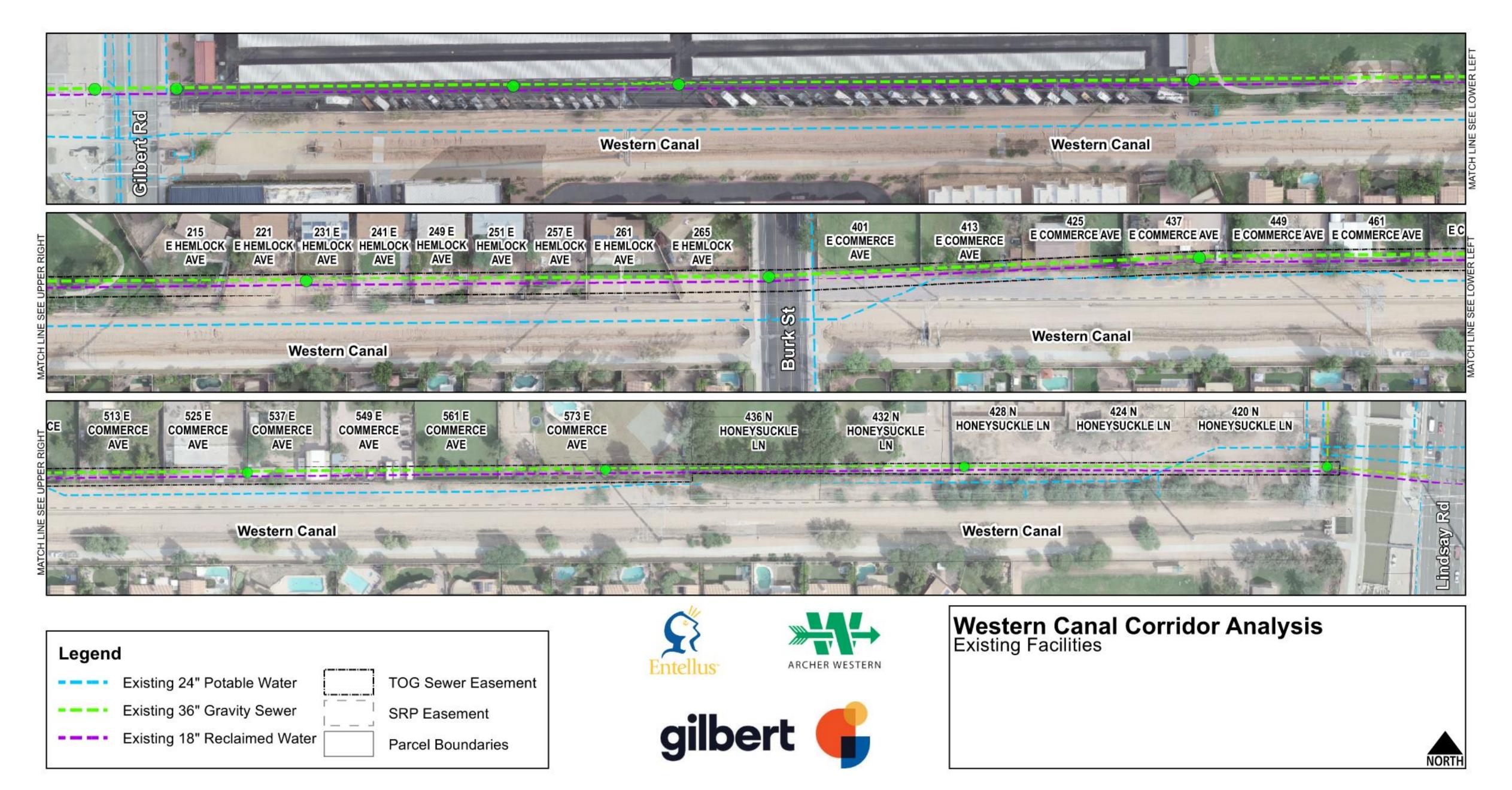


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Agenda

- Western Canal Corridor
 - Town Utilities
 - SRP Utilities
- Corridor Options
- Cost Estimates
- Next Steps

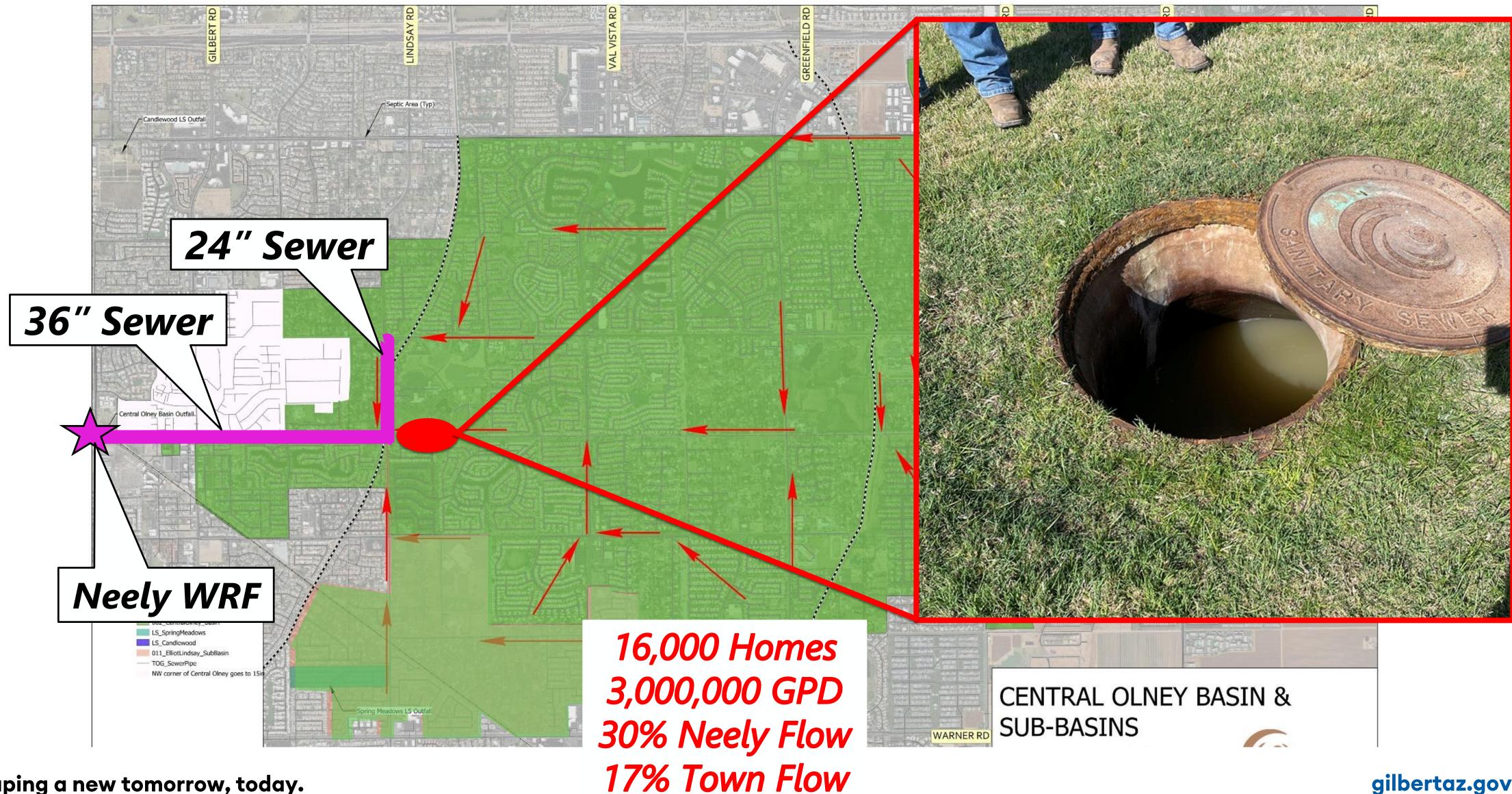


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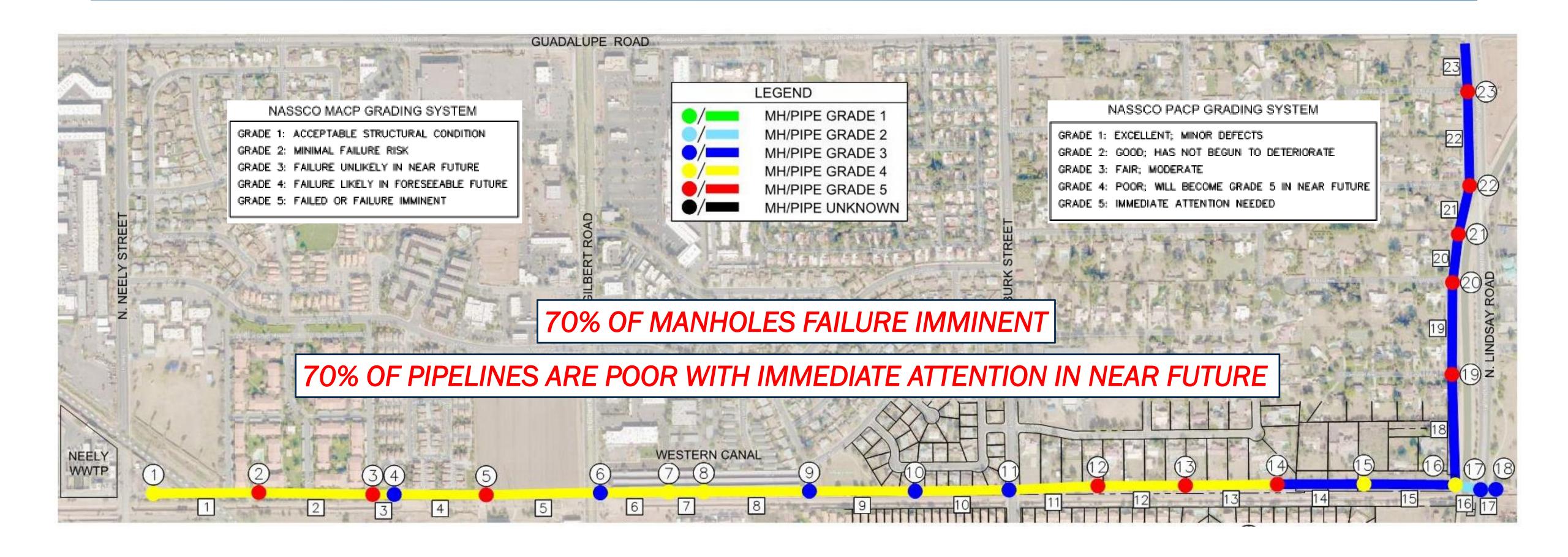
WW1060 - 36" Sewer



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WW1060 - 36" Sewer Condition Assessment



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WW1060 - 36" Sewer Rehabilitation Approach



Bypass



Spot Repair

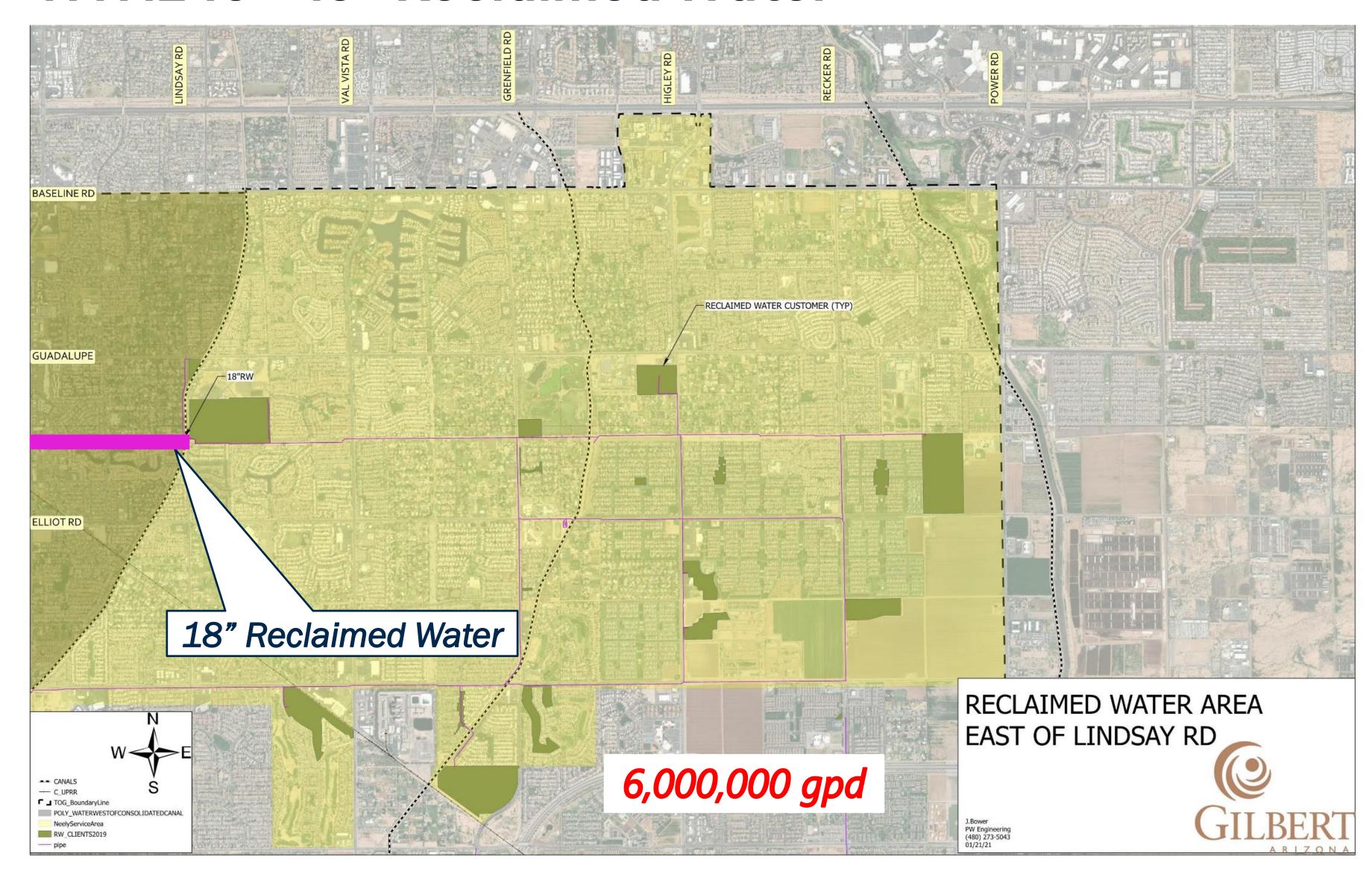


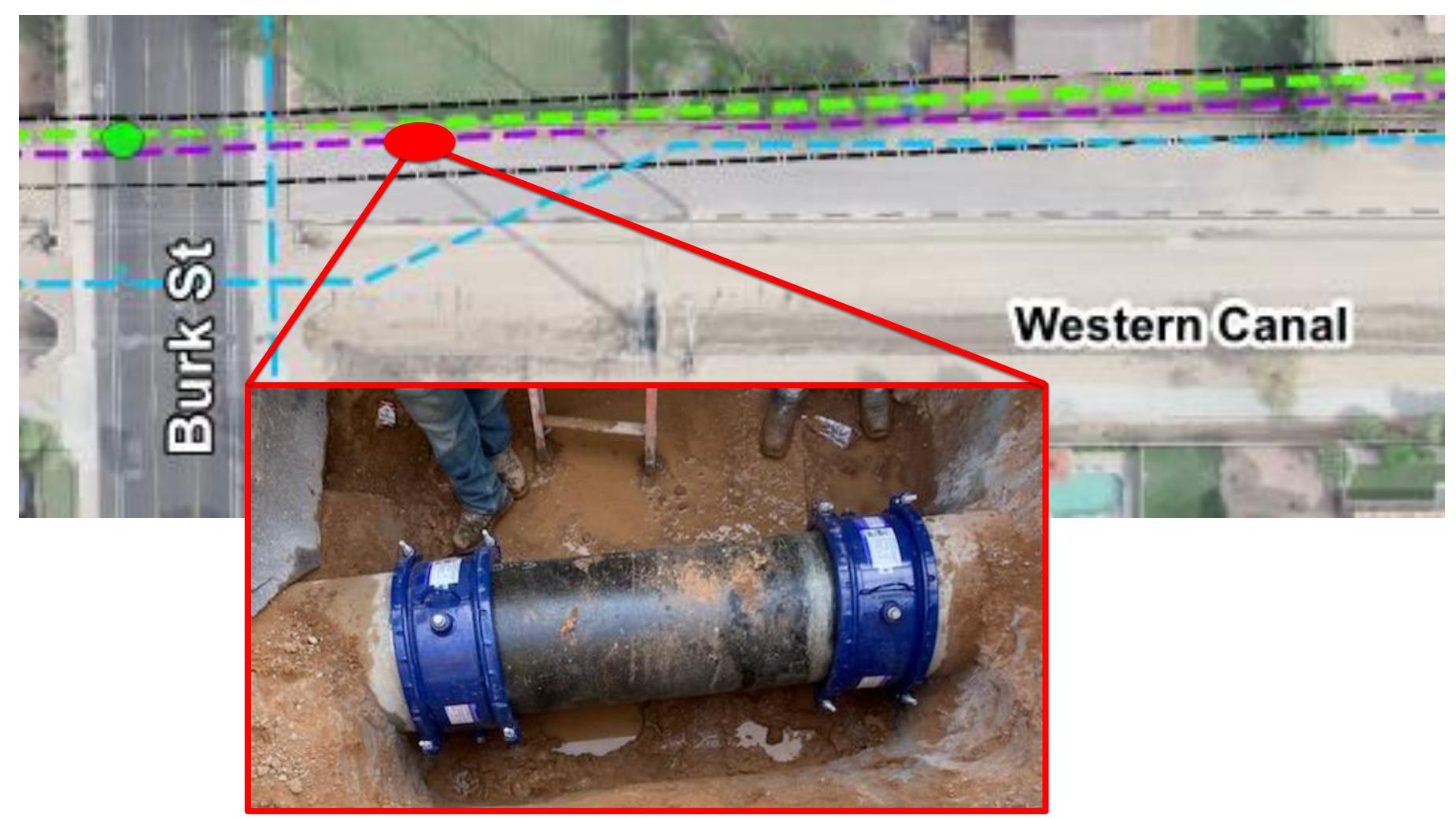
MH Rehab



Cured-In-Place Pipe Lining (CIPP)

WW1246 – 18" Reclaimed Water











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Testing Summary:

- Crush test results within parameters
- Reassess different section in ~10 years





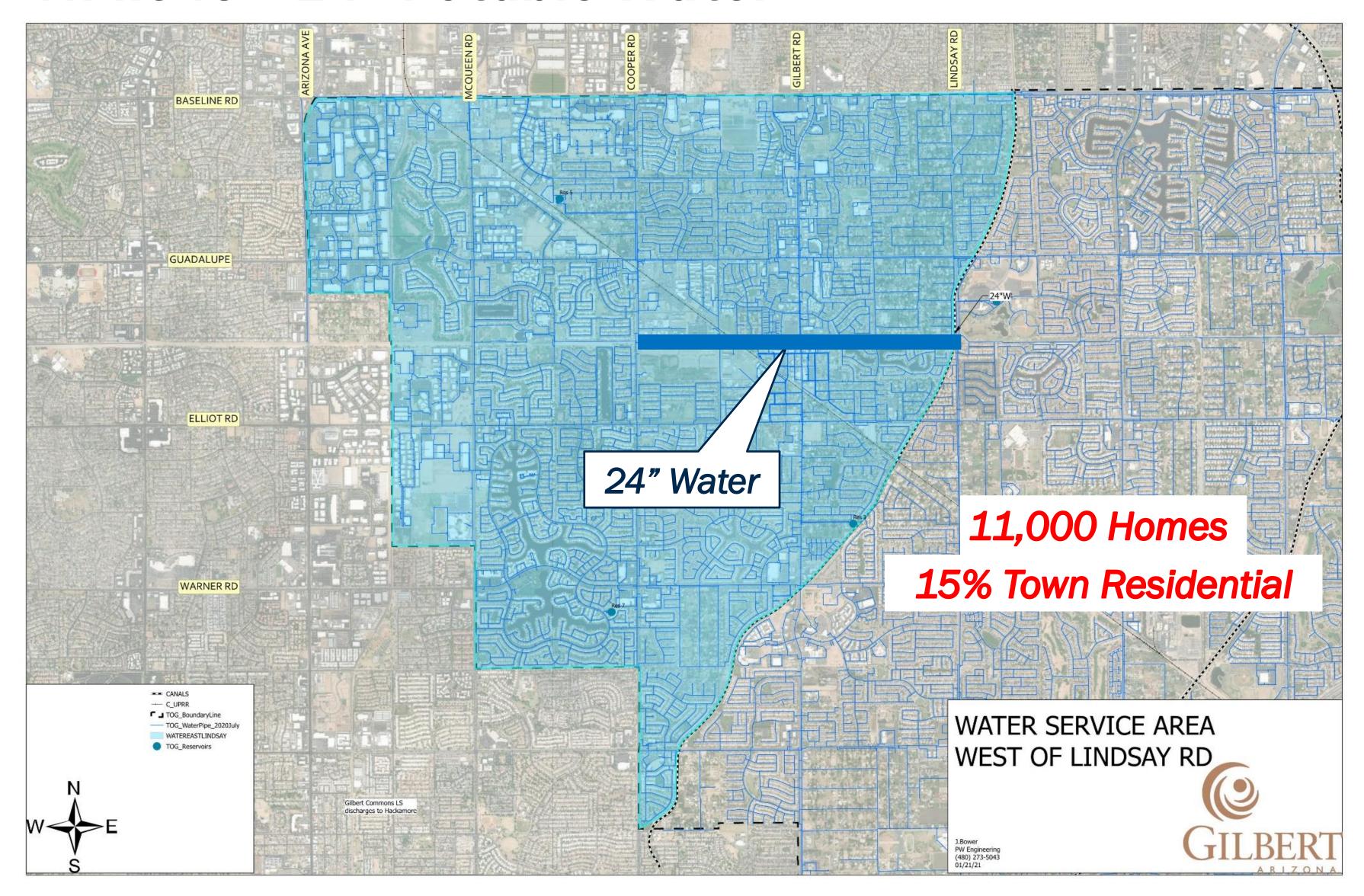


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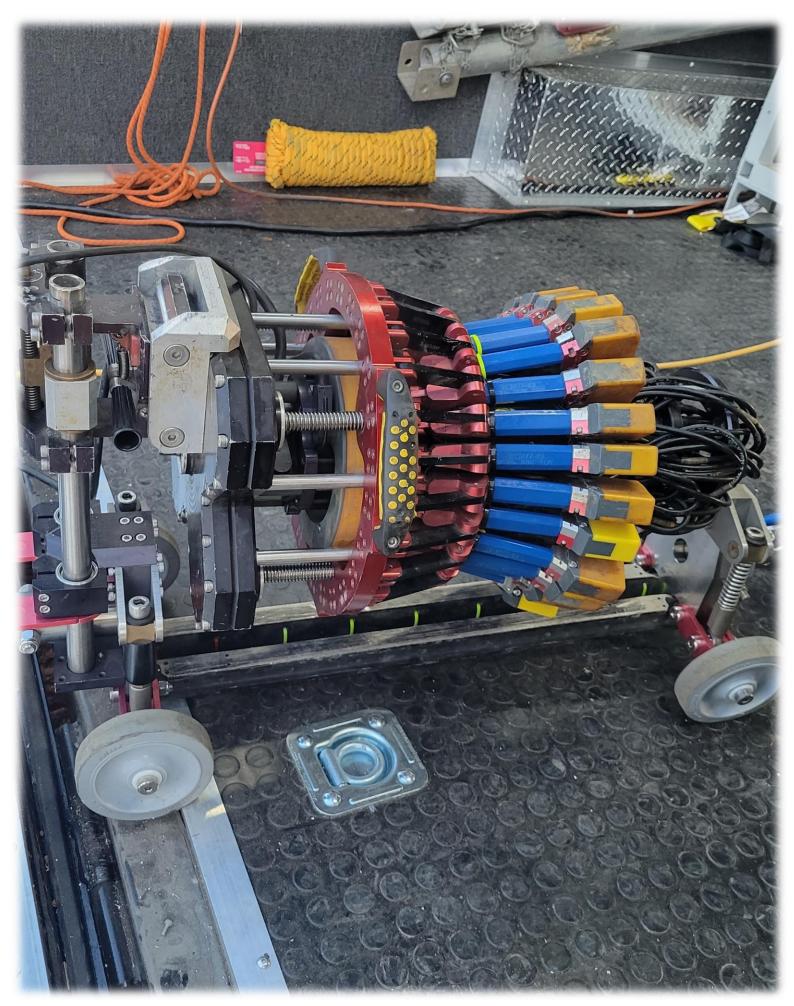
- Immediate Improvements
 - Isolation Valves
 - Drain Valves
 - Air Release/Vacuum Valves

- Future Rehabilitation Replacement
 - FY24 CIP Update

WA1546 – 24" Potable Water



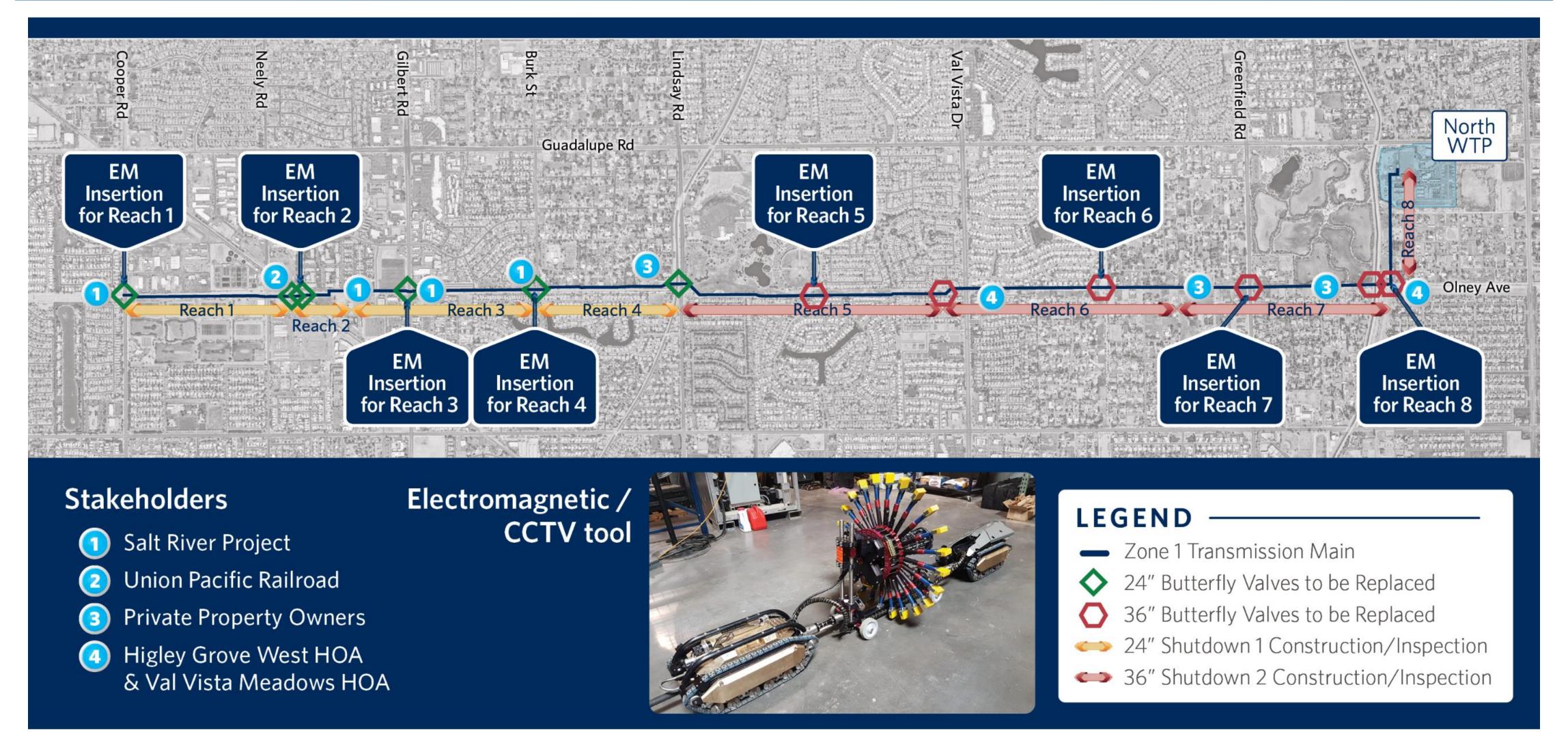




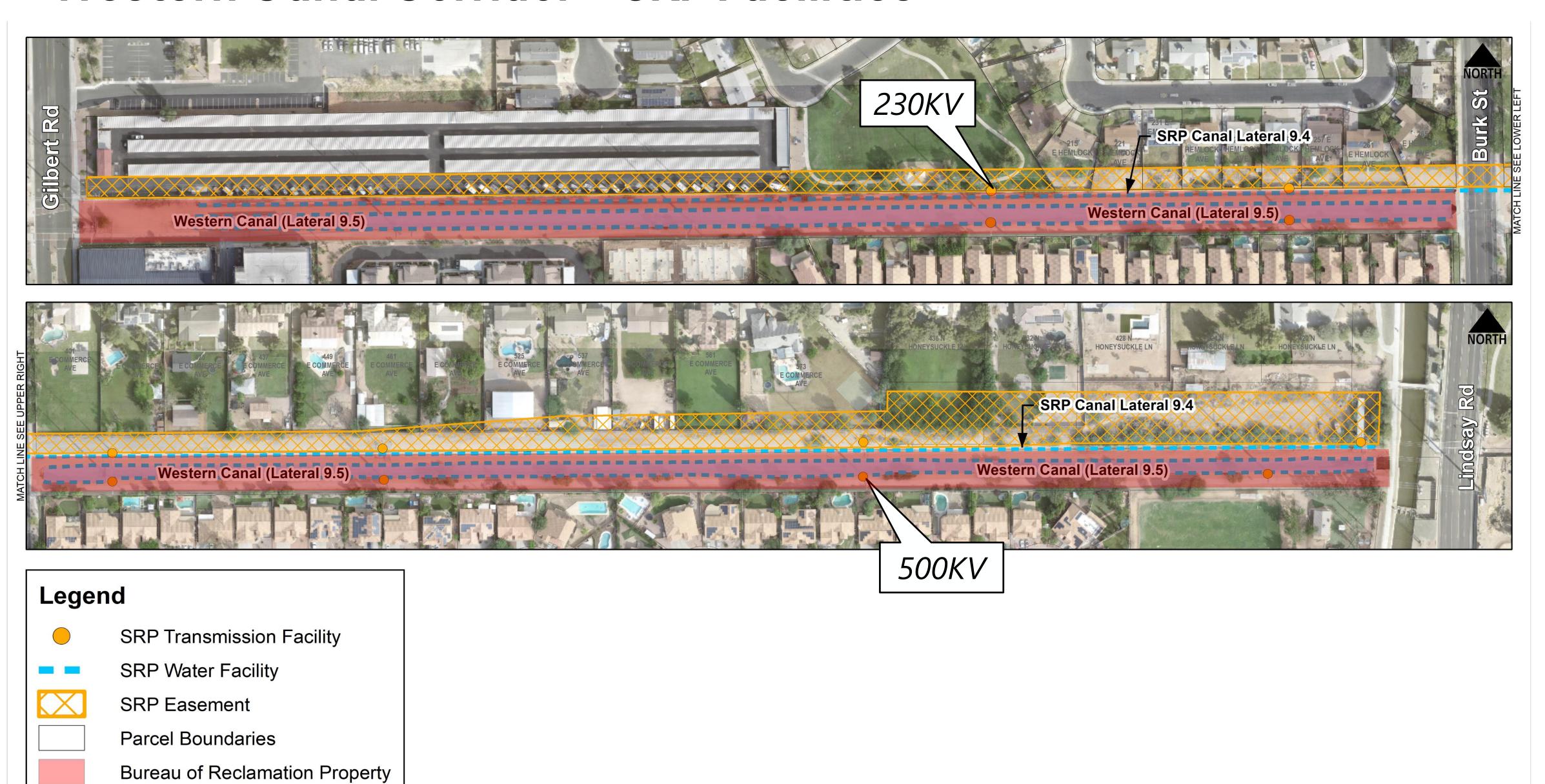




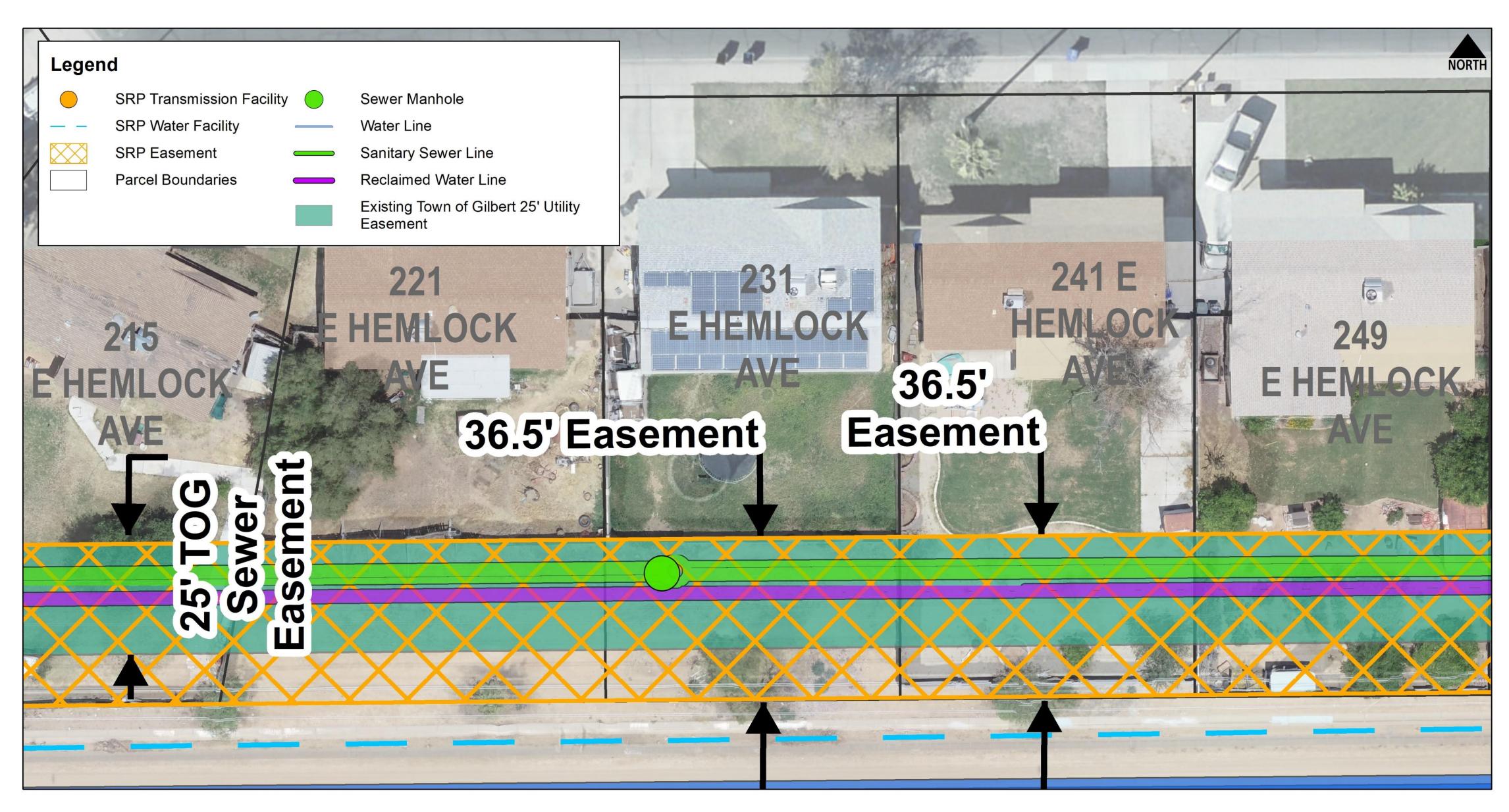




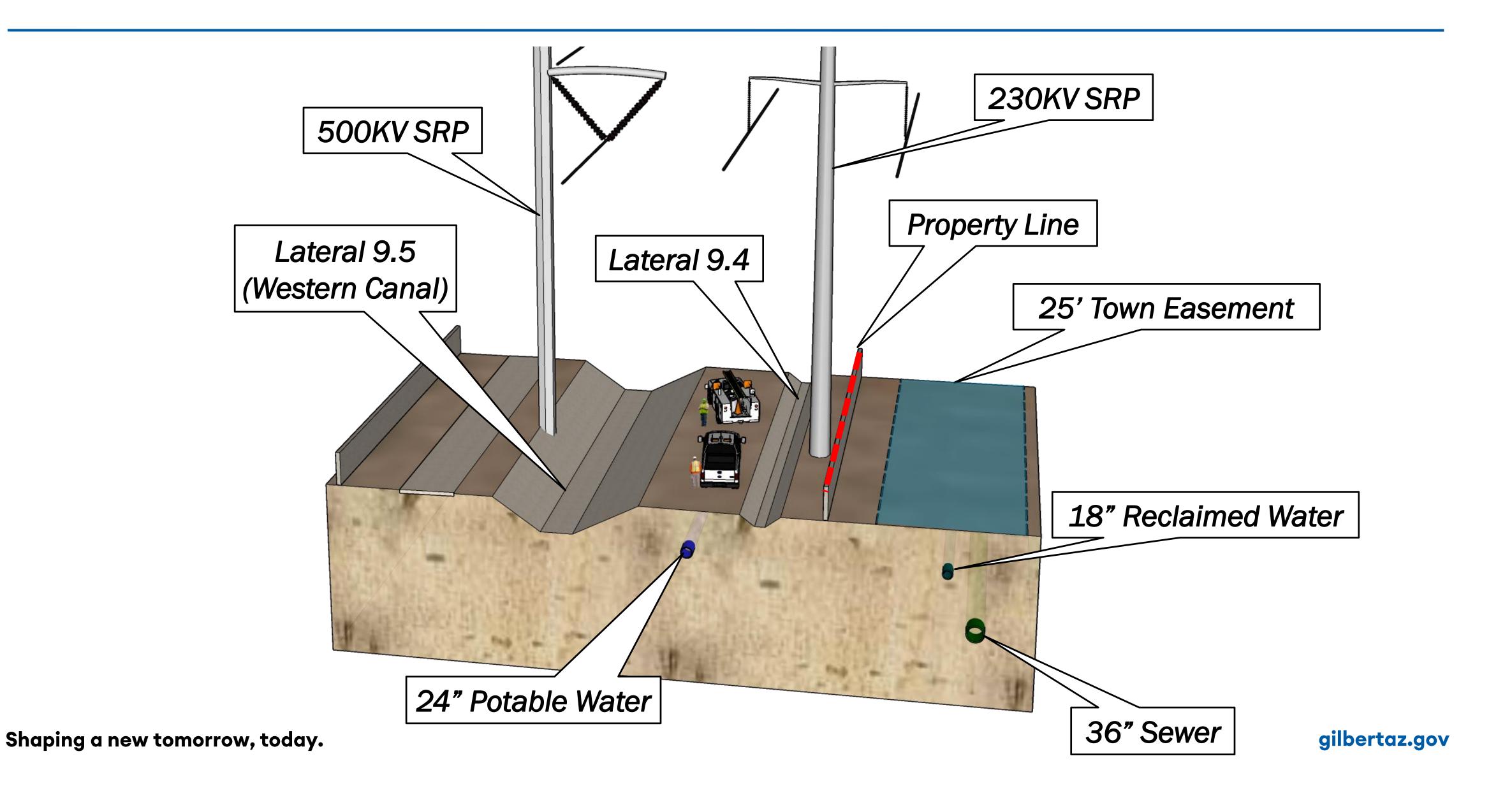
Western Canal Corridor – SRP Facilities



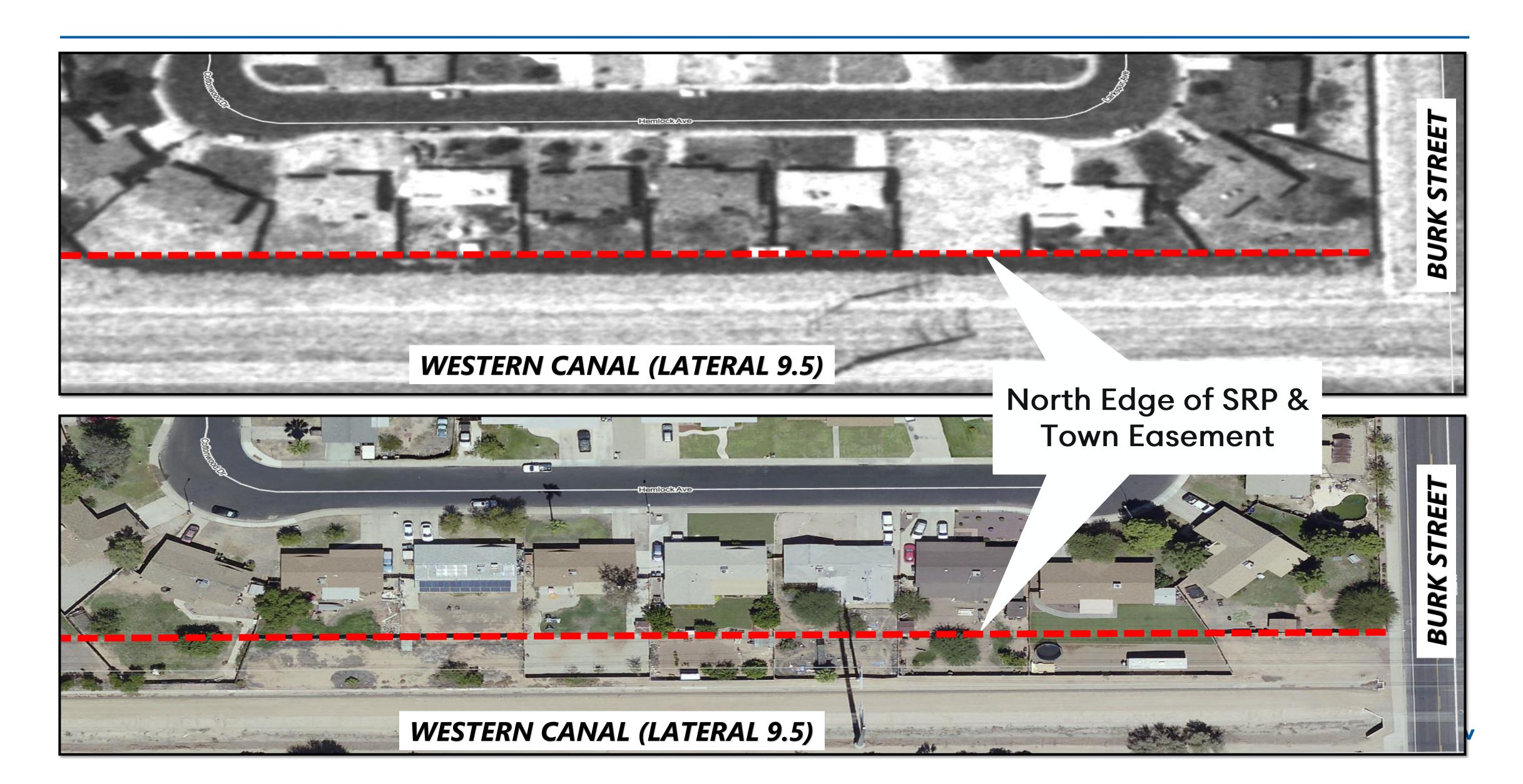
Western Canal Corridor – West of Burk



Western Canal Corridor – West of Burk Cross Section



Western Canal Corridor – West of Burk (1986 vs. 2016)



Western Canal Corridor – West of Burk

GRANT OF EASEMENT

EASEMENT (LS)

DESCRIPTION OF THE PARTS TO BE ACQUIRED:

85 255632

Effective Date: March 12, 1985

County of: Maricopa State of: Arizona

GRANTOR:

GRANTEE: Town of Gilbert 119 North Gilbert Road Gilbert, Arizona 85234

Subject Real Property:

Please refer to legal description on attached Exhibit "A' and plat sketch on attached Exhibit "B".

For Ten pollars (\$18.99) and other good and valuable consideration, Grantor conveys to Grantee the right to install, repair, maintain, alter, and operate exclusive sanitary sewers and effluent water lines in, into, upon, over, across, and under the Subject Real Property, located in the Town of Gilbert, County of Maricopa, State of Arizona.

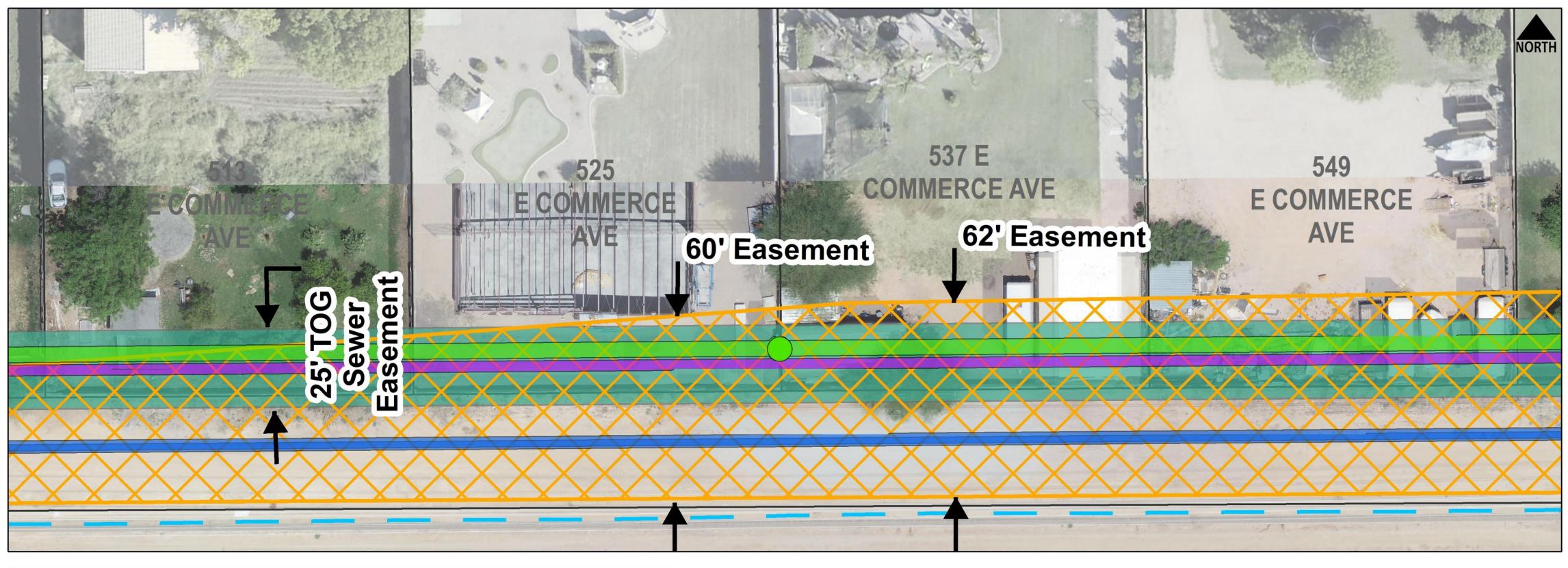
Permanent Utility Easement:

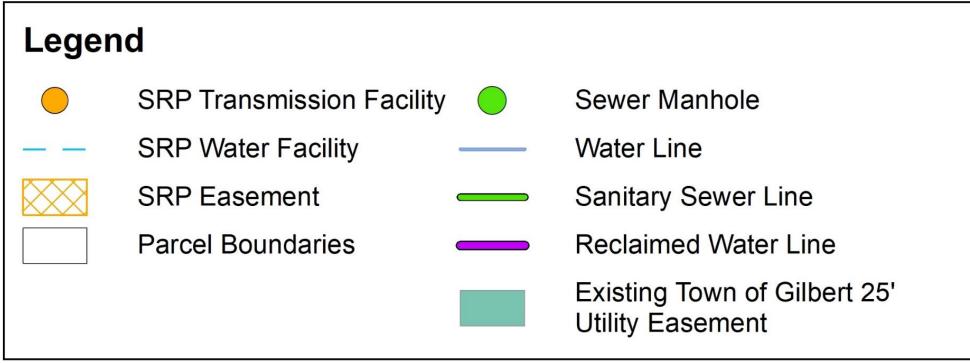
A permanent public utility easement 25 feet wide is to be located approximately 11.5 feet north of the south property line. The proposed take is under an existing S.R.P. power easement, which presently restricts the use of that portion of the site. Only marginal use is available for this portion of the property. The total take area required is 1,700 square feet.

Temporary Construction Easement:

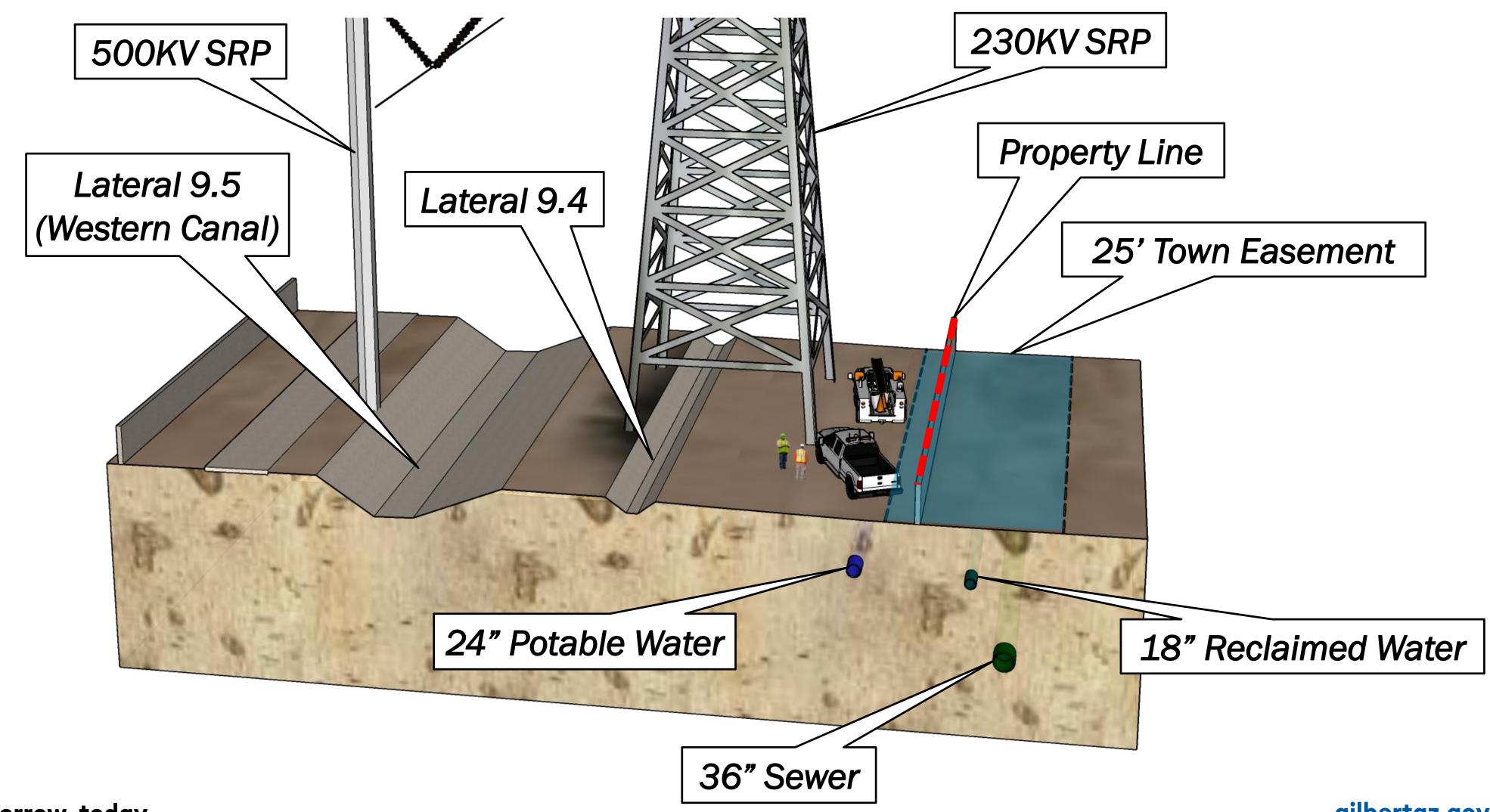
The proposed construction easement is to be located over the south 11.5 feet of the site. The power easement mentioned above also runs over this proposed easement. The total area required is 782 square feet.

Western Canal Corridor – East of Burk





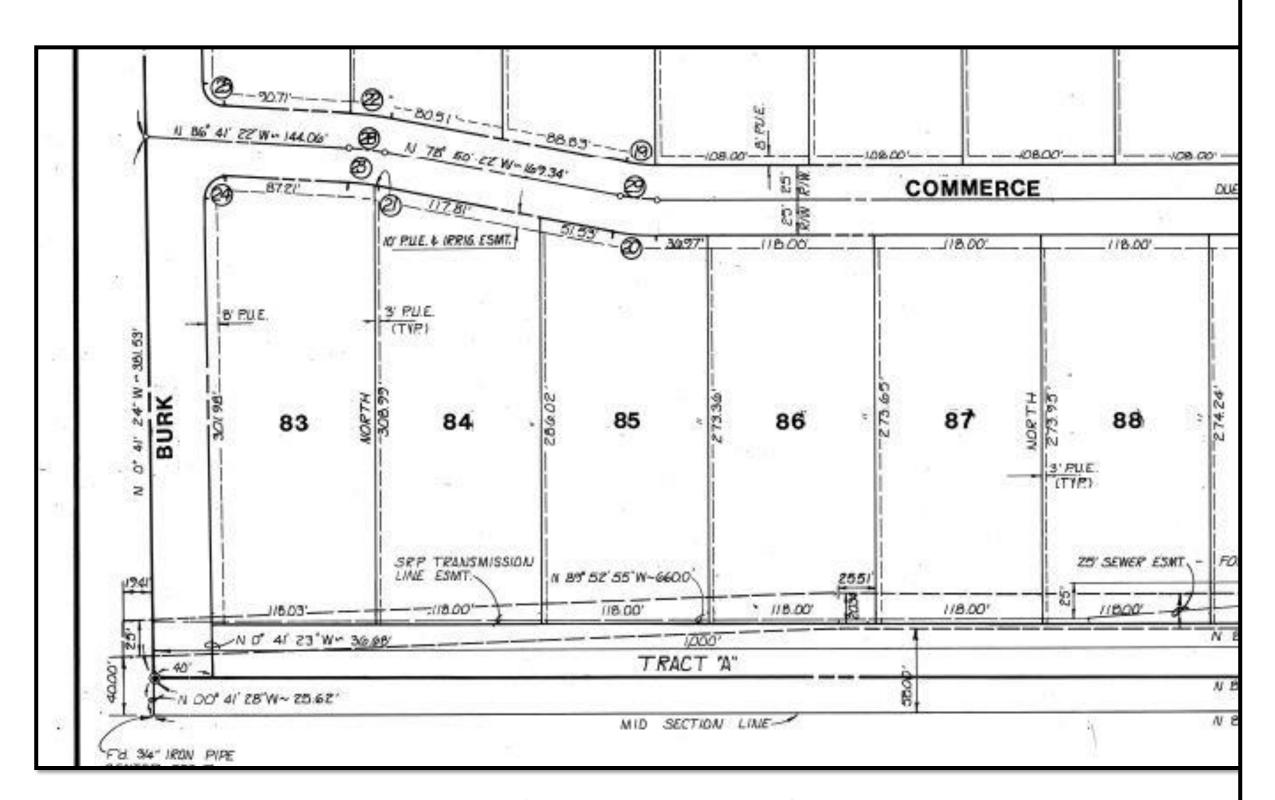
Western Canal Corridor – East of Burk Cross Section



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Western Canal Corridor – East of Burk



GENERAL NOTES

CONSTRUCTION WITHIN EASEMENTS EXCEPT BY PUBLIC AGENCIES AND UTILITY COMPANIES SHALL BE LIMITED TO UTILITIES, AND WOOD, WIRE, OR REMOVEABLE SECTION FENCING.

GRANT OF EASEMENT

Effective Date: March 12, 1985 County of: Maricopa State of: Arizona

GRANTOR:

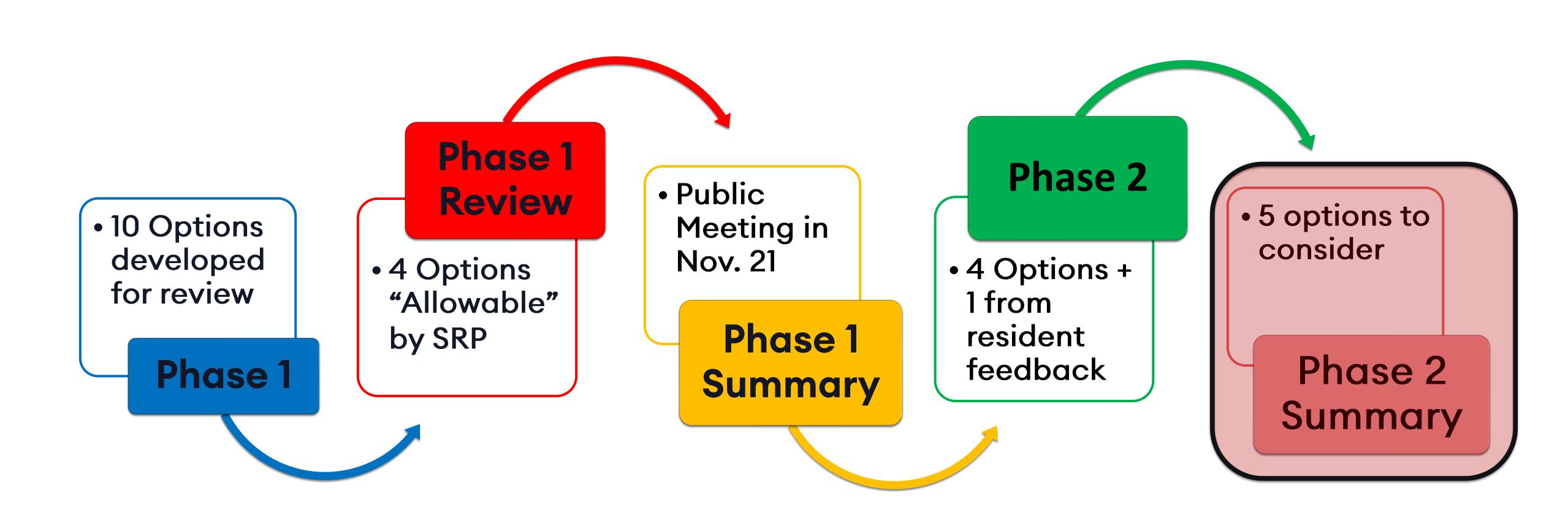
GRANTEE: Town of Gilbert 119 North Gilbert Road Gilbert, Arizona 85234

Subject Real Property:

Please refer to legal description on attached Exhibit "A' and plat sketch on attached Exhibit "B".

For Ten Dollars (\$10.00) and other good and valuable consideration, Grantor conveys to Grantee the right to install, repair, maintain, alter, and operate exclusive sanitary sewers and effluent water lines in, into, upon, over, across, and under the Subject Real Property, located in the Town of Gilbert, County of Maricopa, State of Arizona.

Corridor Analysis Summary



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Options Analysis Overview

Option 1	Acquire Easement in Fee
Option 2	Utility Corridor Alley
Option 3	Minimal Acquisition at Manholes
Option 4	Gates to Manhole Properties
Option 5	Gates to Manhole Properties + Relocate Reclaimed Water

OPTION 1

OPTION 2

OPTION 3

OPTION 4

OPTION 5



Acquire Easement in Fee



Utility Corridor Alley



Minimal Acquisition at Manholes



Gates to Manhole **Properties**



Gates to Manhole Properties + Reclaimed Water Relocated

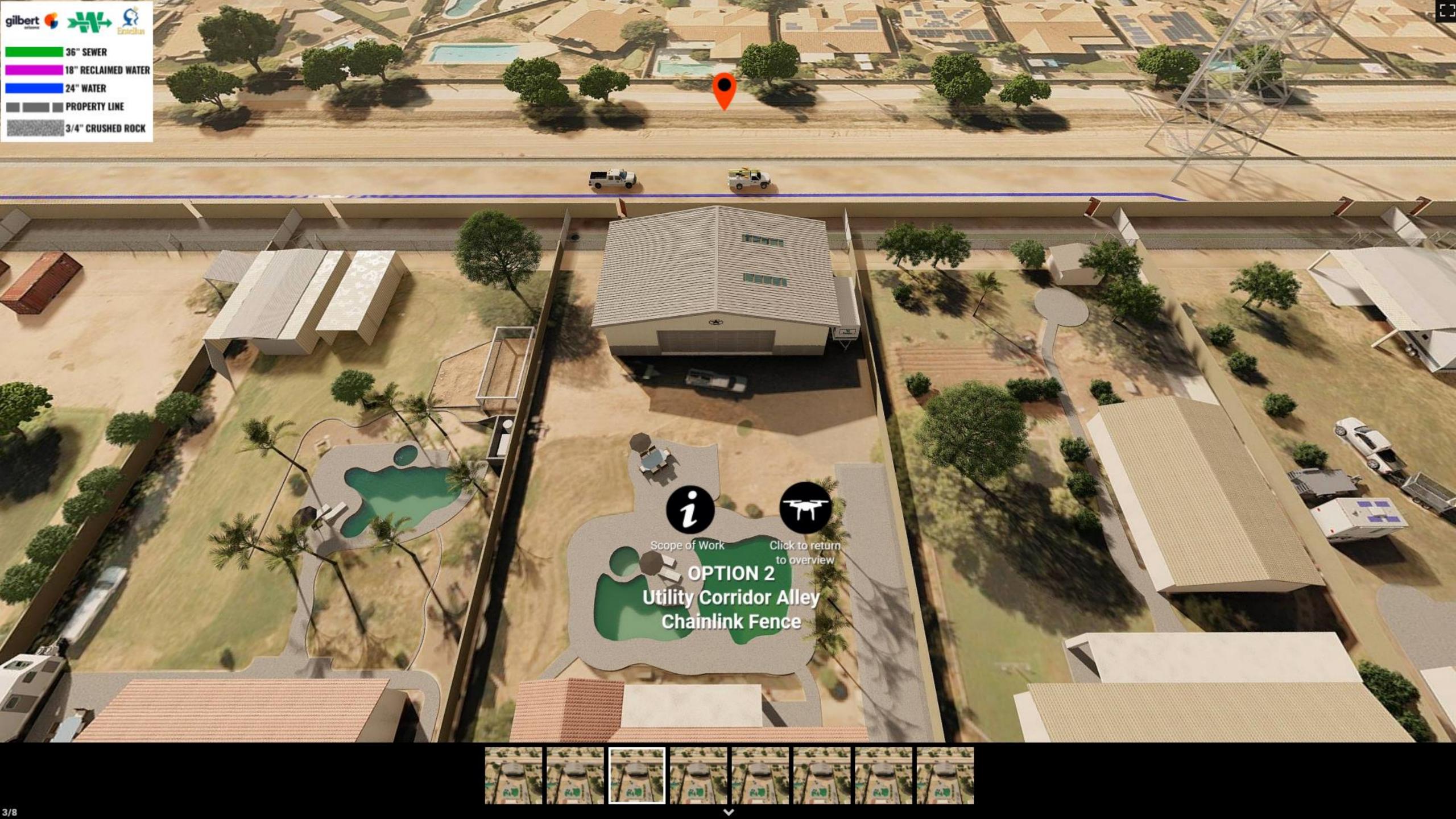


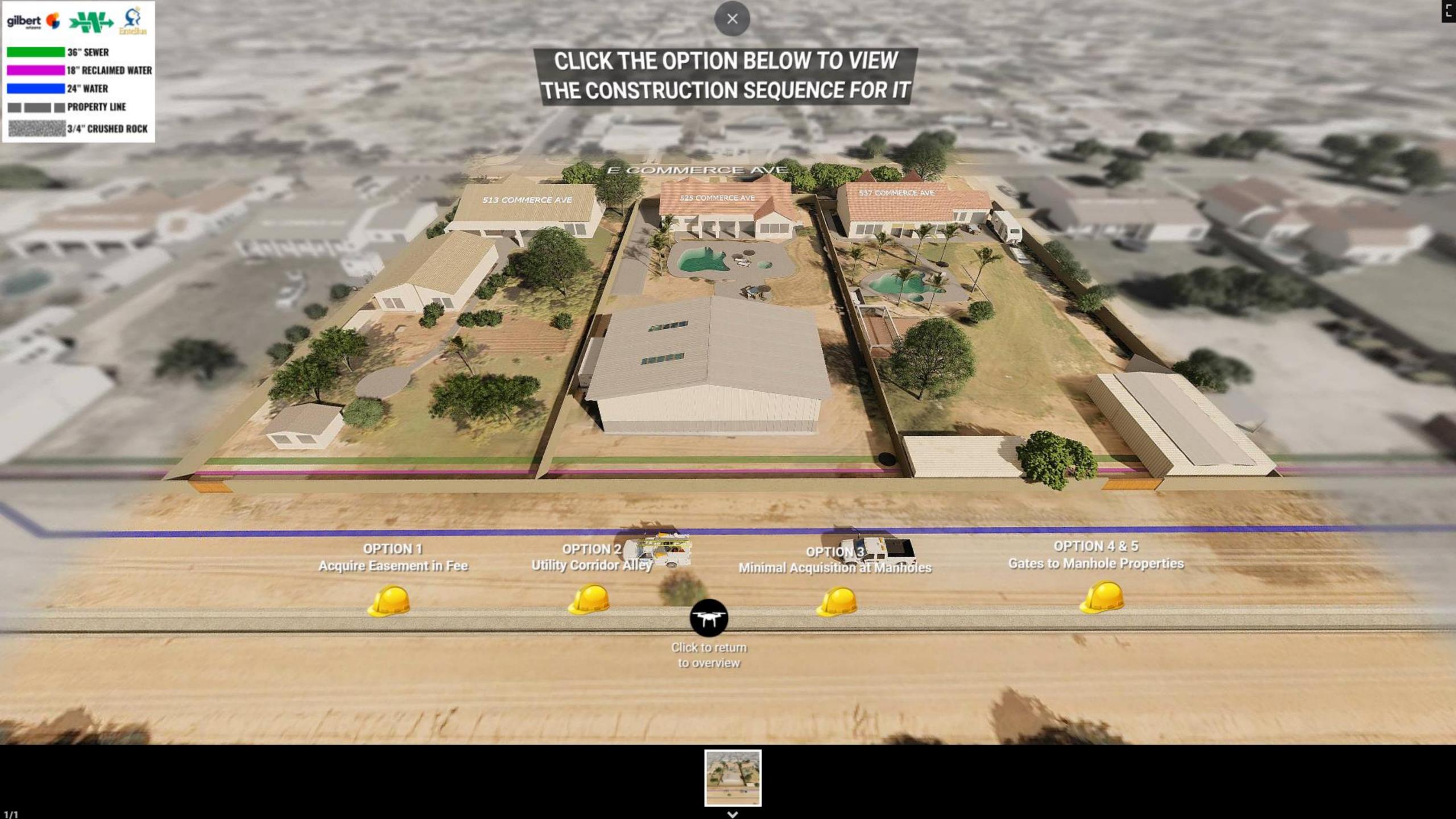


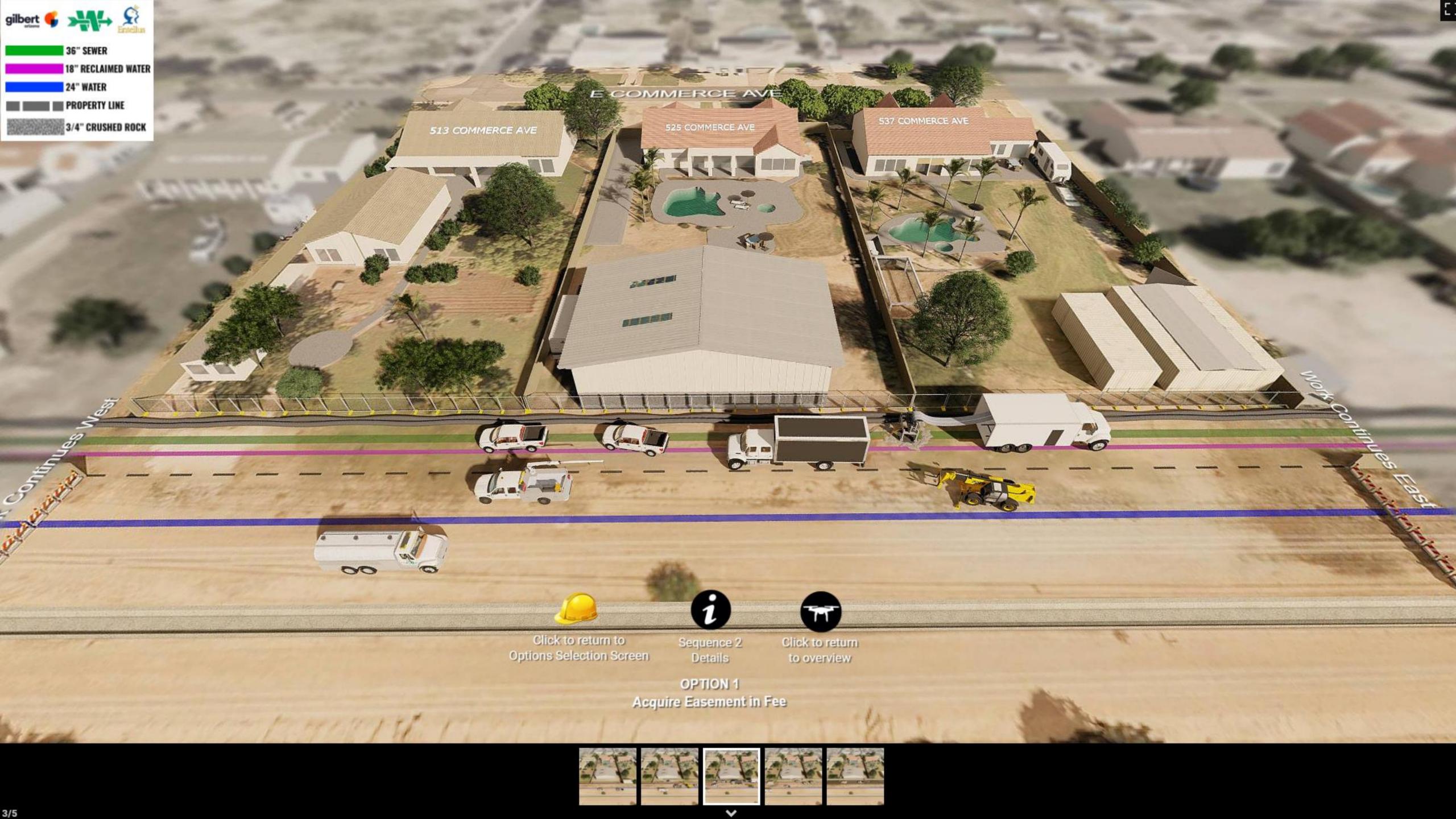


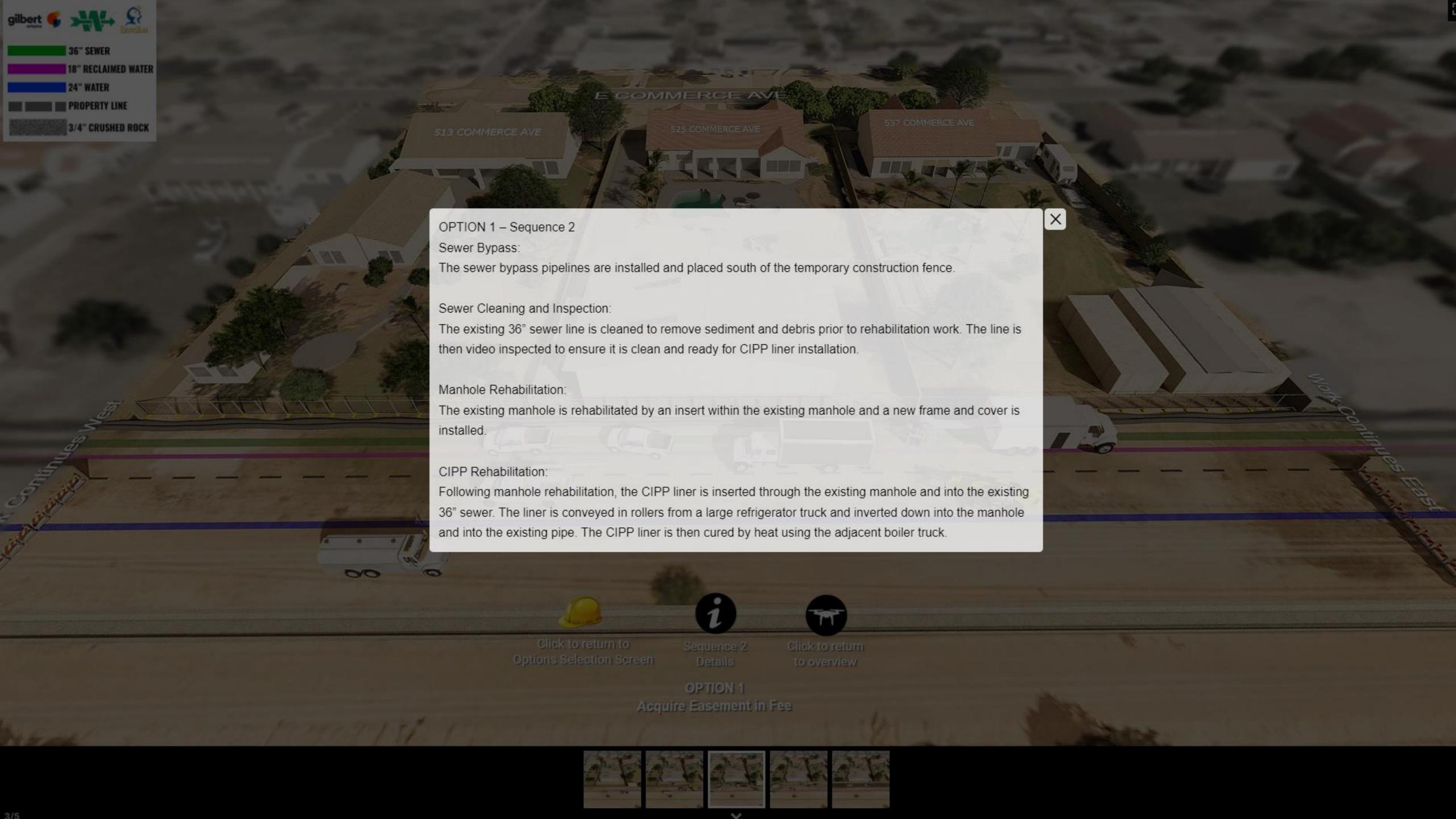












Options Cost Estimates

Option	Utility Improvements	Parcel & Site Improvements	Land Acquisition	Total
1	\$16,303,000	\$1,718,000	\$2,463,000	\$20,484,000
2	\$16,303,000	\$2,133,000	\$54,000	\$18,490,000
3	\$16,178,000	\$449,000	\$289,000	\$16,916,000
4	\$16,050,000	\$250,000	\$9,000	\$16,309,000
5	\$21,290,000	\$250,000	\$9,000	\$21,549,000

Note: Cost estimates reflect construction and land acquisition costs. Estimates are based on preliminary plans and will be refined as design progresses and refined cost models are prepared by CMAR.

Options Cost Escalation

Option	Engineer's Estimate (2021)	Contractor's Estimate (2022)	Cost Δ (2021 vs. 2022)
1	\$16,880,000	\$20,484,000	22%
2	\$14,860,000	\$18,490,000	25%
3	\$12,800,000	\$16,916,000	32%
4	\$12,480,000	\$16,309,000	31%
5	N/A	\$21,549,000	N/A

Note: Cost estimates reflect construction and land acquisition costs. Estimates are based on preliminary plans and will be refined as design progresses and refined cost models are prepared by CMAR.

Next Steps

- Project Website
 - www.gilbertaz.gov/cip
 - Review Presentation
 - Review Videos
 - Review Options Viewer
 - Provide Feedback

Departments » Public Works » Engineering Services » Capital Improvement Projects »

WW1060 Western Canal Corridor Analysis

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Corridor Analysis Summary:

On June 28, the results of the Western Canal Corridor Analysis were shared with Town Council during a Study Session. <u>Click here</u> if you'd like to view the video of the Council Study Session. The information presented during that Study Session is made available here.

- Council Study Session PowerPoint presentation (coming soon)
- Video Reviewing 5 Options Being Considered
- Interactive Options Viewer

How You Can Participate: We welcome your comments related to five options currently being considered. To provide your comments, <u>click here</u>.

Project Hotline: 480.898.4090

Project Background +

Phase 1 Corridor Analysis Summary +

Next Steps

- Select Option
 Tentative 8/9 Council Meeting
- Develop A/E, CM@R, PM/CM Scope
- Proceed with detailed design
- Proceed with land acquisition/easement process
- Contingency/FY24 CIP Update

Moving Forward



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Questions