

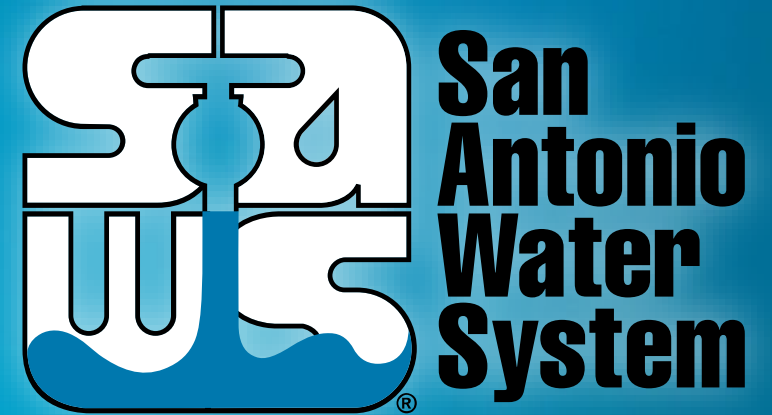
Helotes Creek Gravity Main and Lift Station #246 Elimination

Adam Eddy, P.E.

Project Engineer – Water & Sewer Pipelines

Local Business Meeting

August 17, 2023



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Background

Our SAWS sewer system functions based on gravity; however, some areas of town (particularly northern and northwestern) have high points that require the use of lift stations to move the wastewater in that topography.

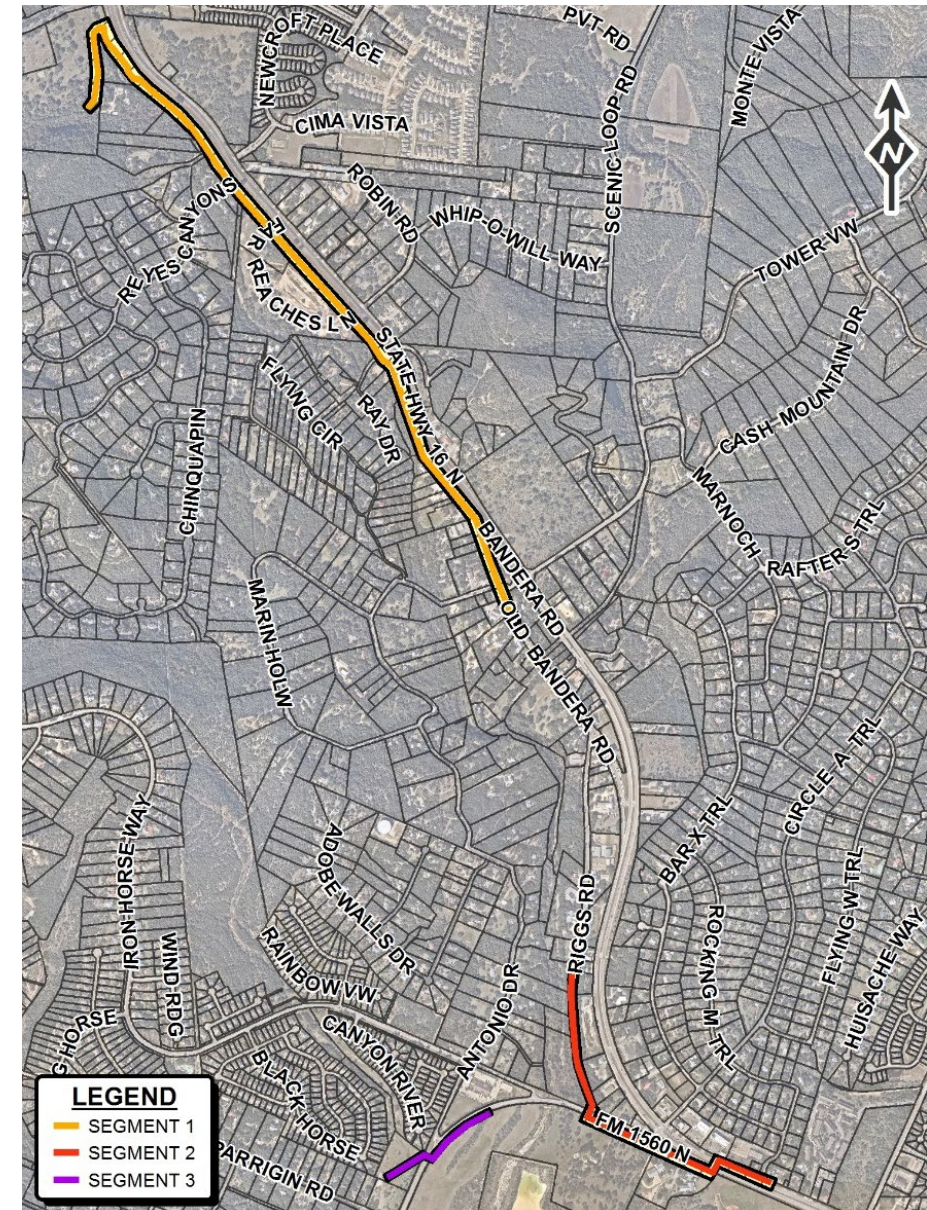
The drawback of using lift stations is that they:

- are maintenance intensive
- require observation to ensure they are working

Because of this SAWS has a program in place to redesign the system to reduce reliance on or eliminate lift stations.

Project Overview

This project will eliminate lift station #246 (SA Ranch Lift Station) and alleviate capacity concerns at lift station #233 (Iron Horse Lift Station). It consists of three segments as noted in the map on the right that will add sewer mains to accomplish this.



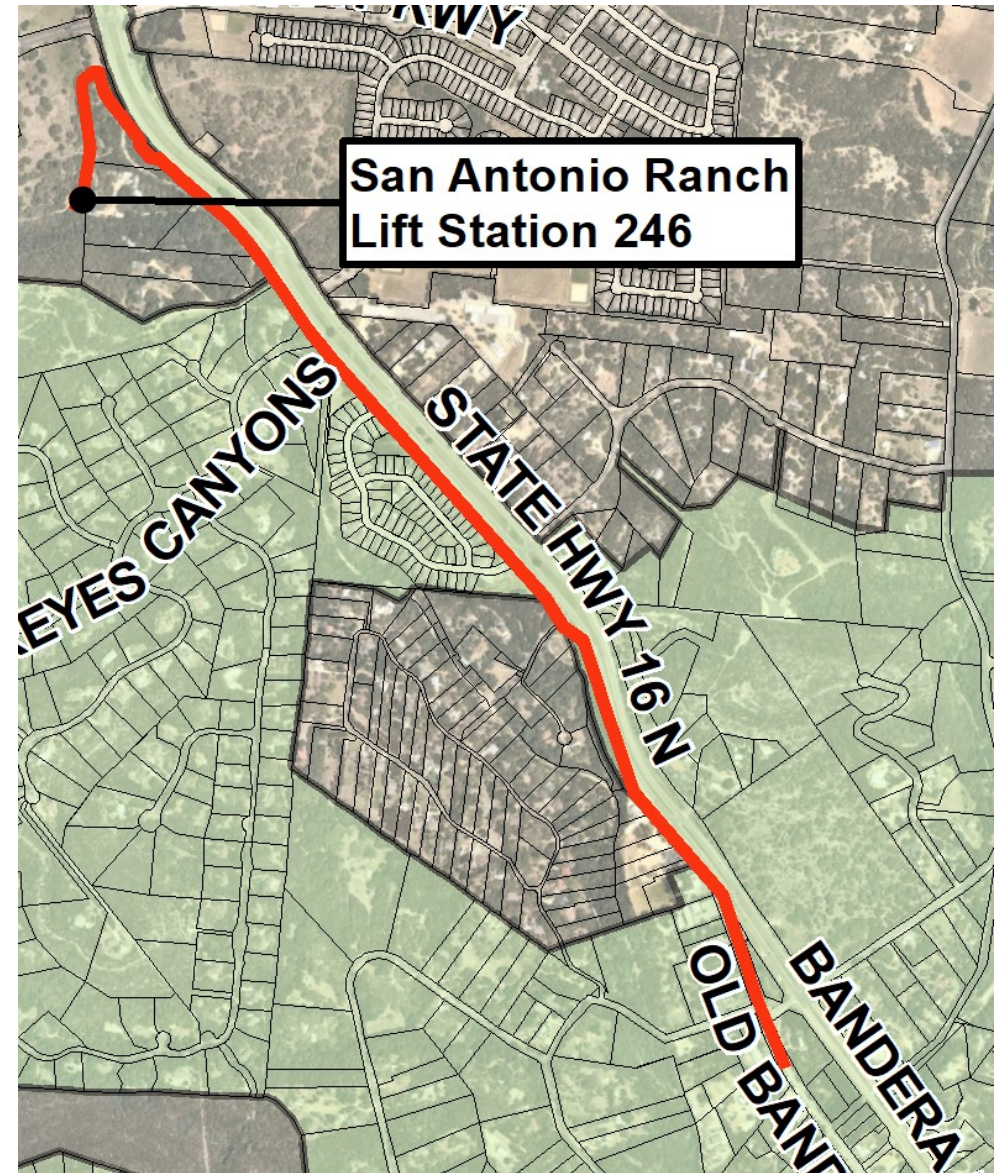
Project Details

- Installation of approximately 14,700 linear feet of 6" – 18" PVC sewer pipe
- Installation of new manholes and rehabilitation of existing manholes
- Extensive use of trenchless technology (about 5,000 linear feet)
- Repaving sections of pavement damaged by construction
- Replacement of curbs, sidewalks, and driveways affected by construction
- Replacement of sod where affected by construction



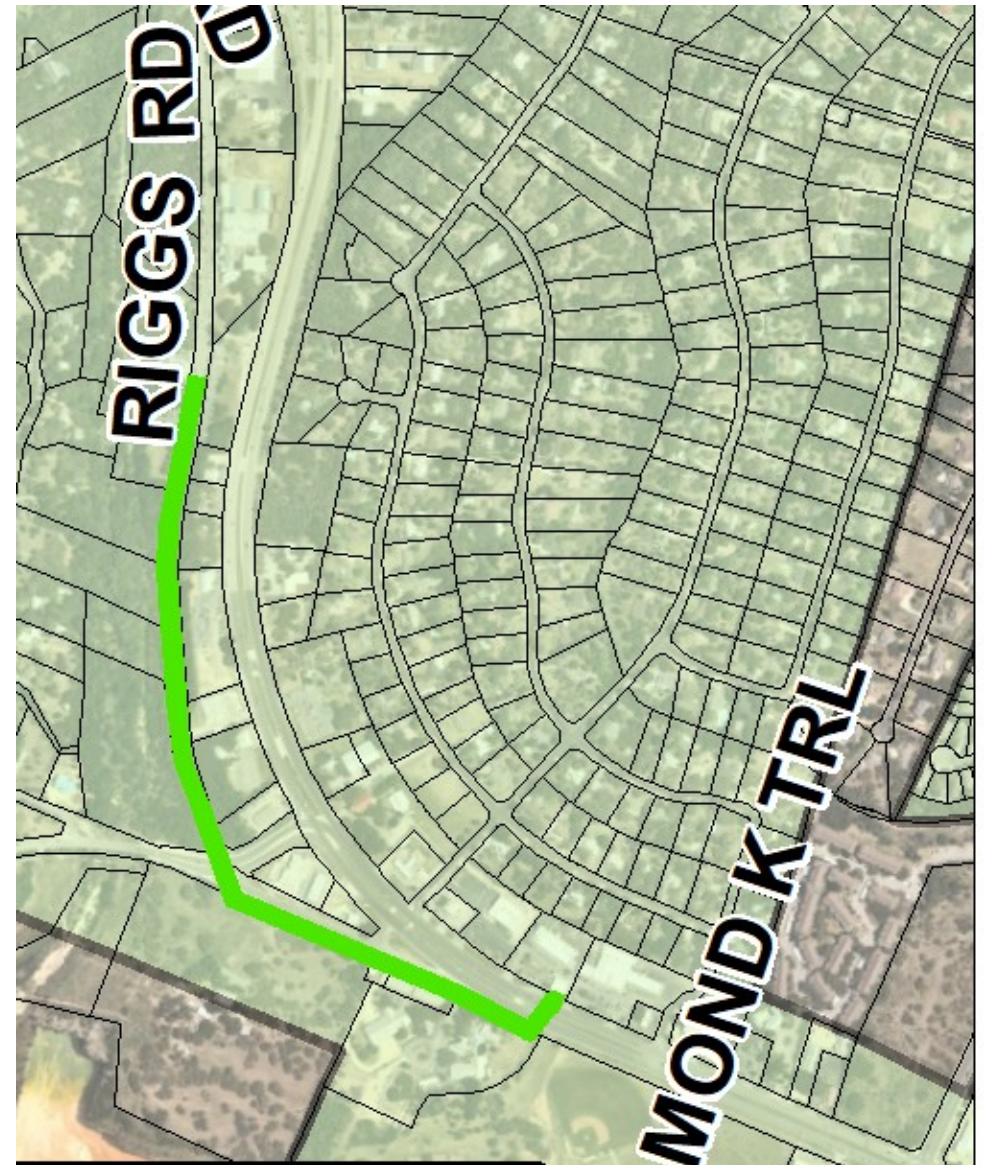
Project Location: Segment I

- Begins at existing lift station 246 just south of Ranch Pkwy
- Continues along SH 16 to Old Bandera Road ending before the North side of the Old Bandera Road Bridge.
- Approximately 9,300 LF of 18" and 12" PVC pipe



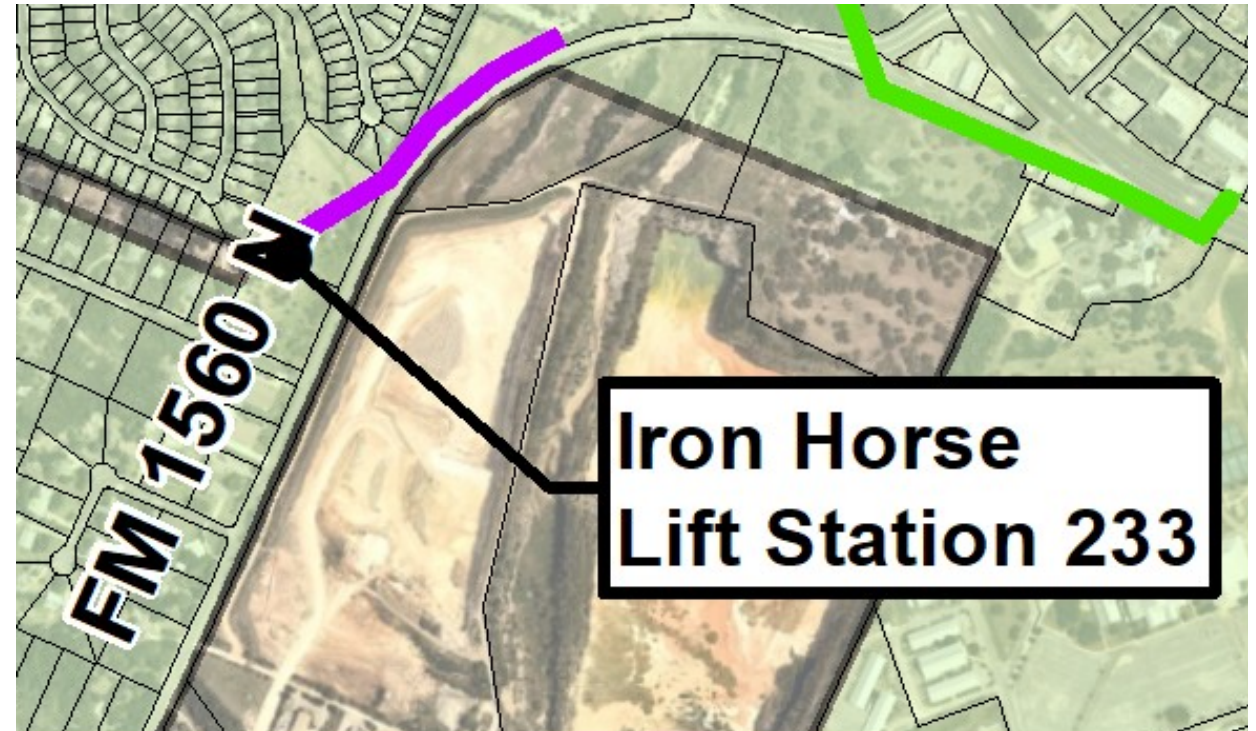
Project Location: Segment II

- Follows Riggs Road down to FM 1560
- Continues along FM 1560 to Bandera Road and crosses Bandera Road just past city hall to connect to existing pipeline.
- Approximately 4,100 LF of 18" and 15" PVC pipe



Project Location: Segment III

- Follows FM 1560 then crosses disc golf course.
- Approximately 1,400 LF of 8" and 6" PVC pipe

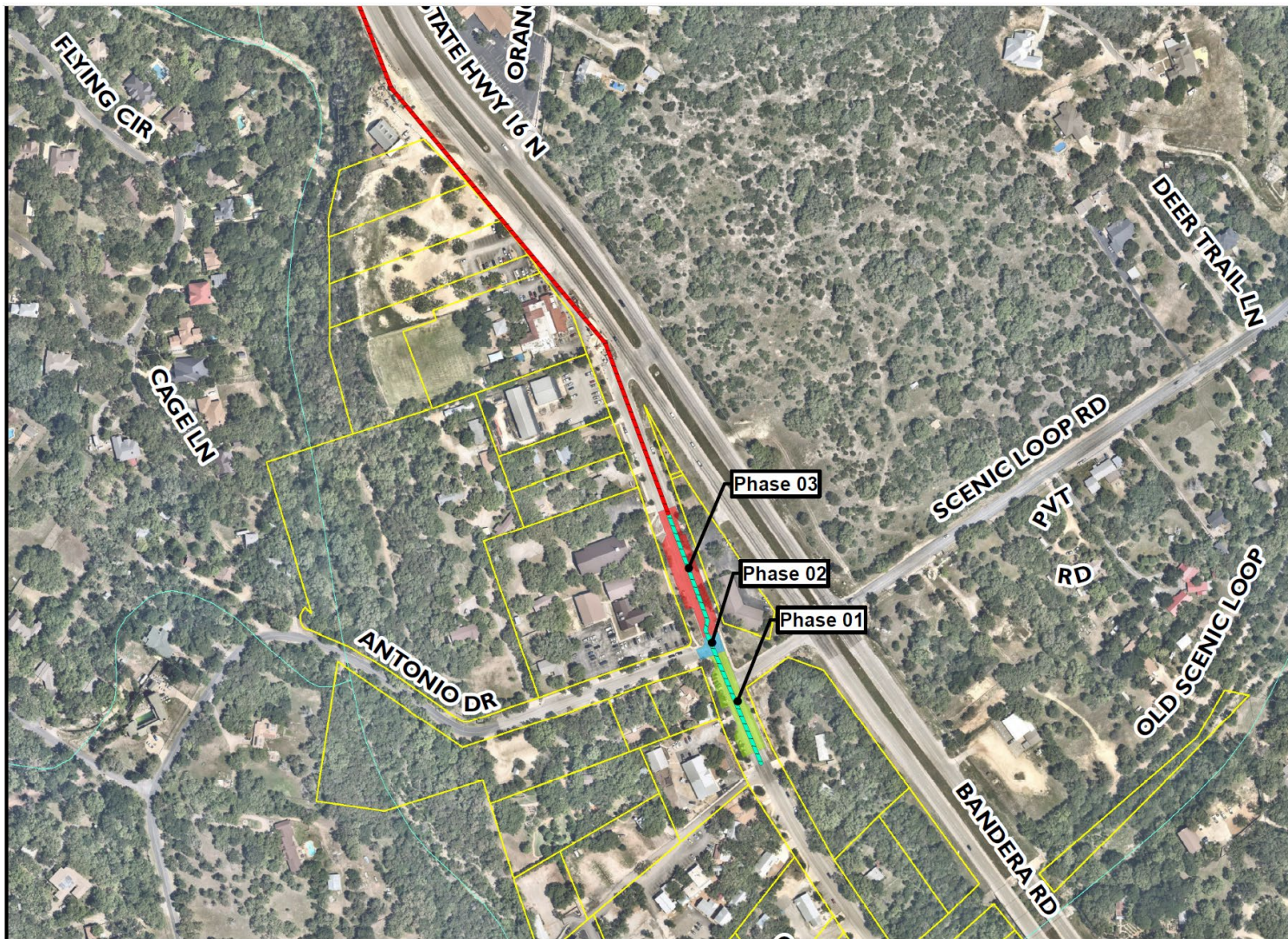


Key Project Information

- This is a 2-year project that began in January 2023 and is scheduled to be completed by end of 2024 weather permitting.
- Work typically takes place Monday – Friday 7 a.m. to 6 p.m.
- Each segment will have bypass operations run while connecting to existing infrastructure.
- There are no anticipated service interruptions for either water or sewer service during project construction.



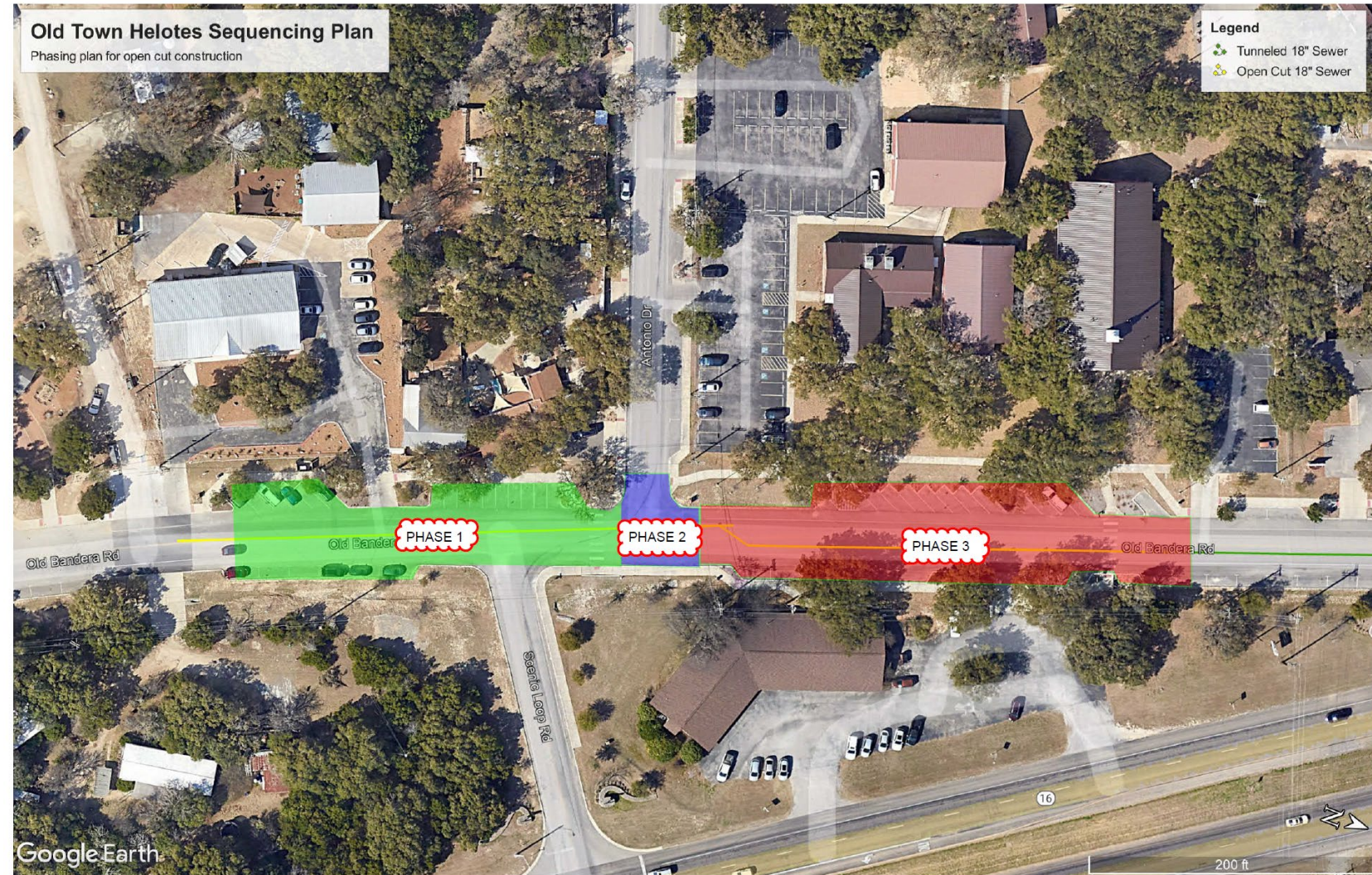
Work in Old Town Helotes



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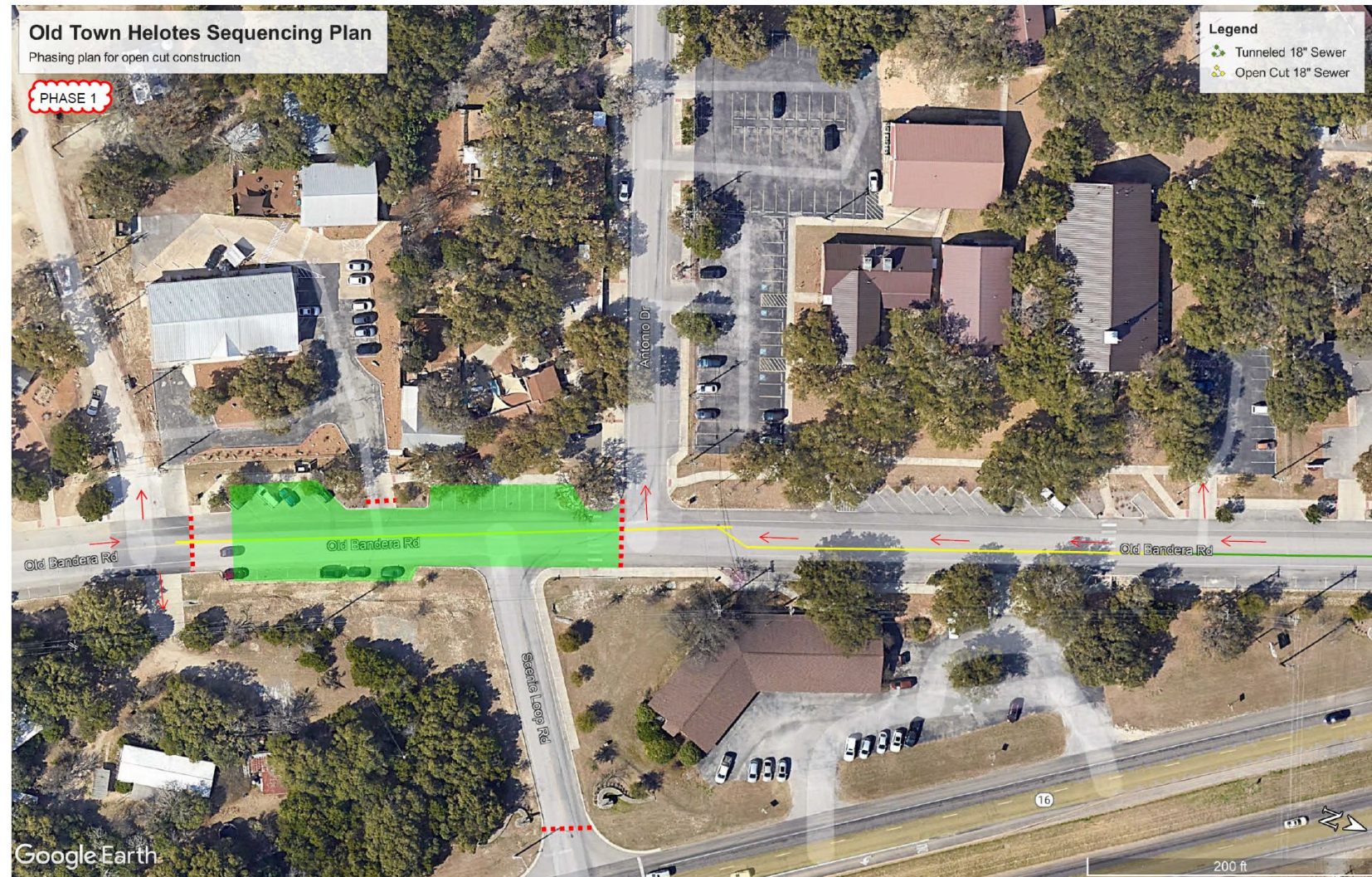
Work in Old Town Helotes – Phasing Plan

- Work is expected to take 8 weeks to complete
- Work broken out into 3 phases to minimize access issues
- Bypass operation to be set up in the 2 weeks leading up to construction start
- Trench repair with asphalt will be completed prior to moving to next phase



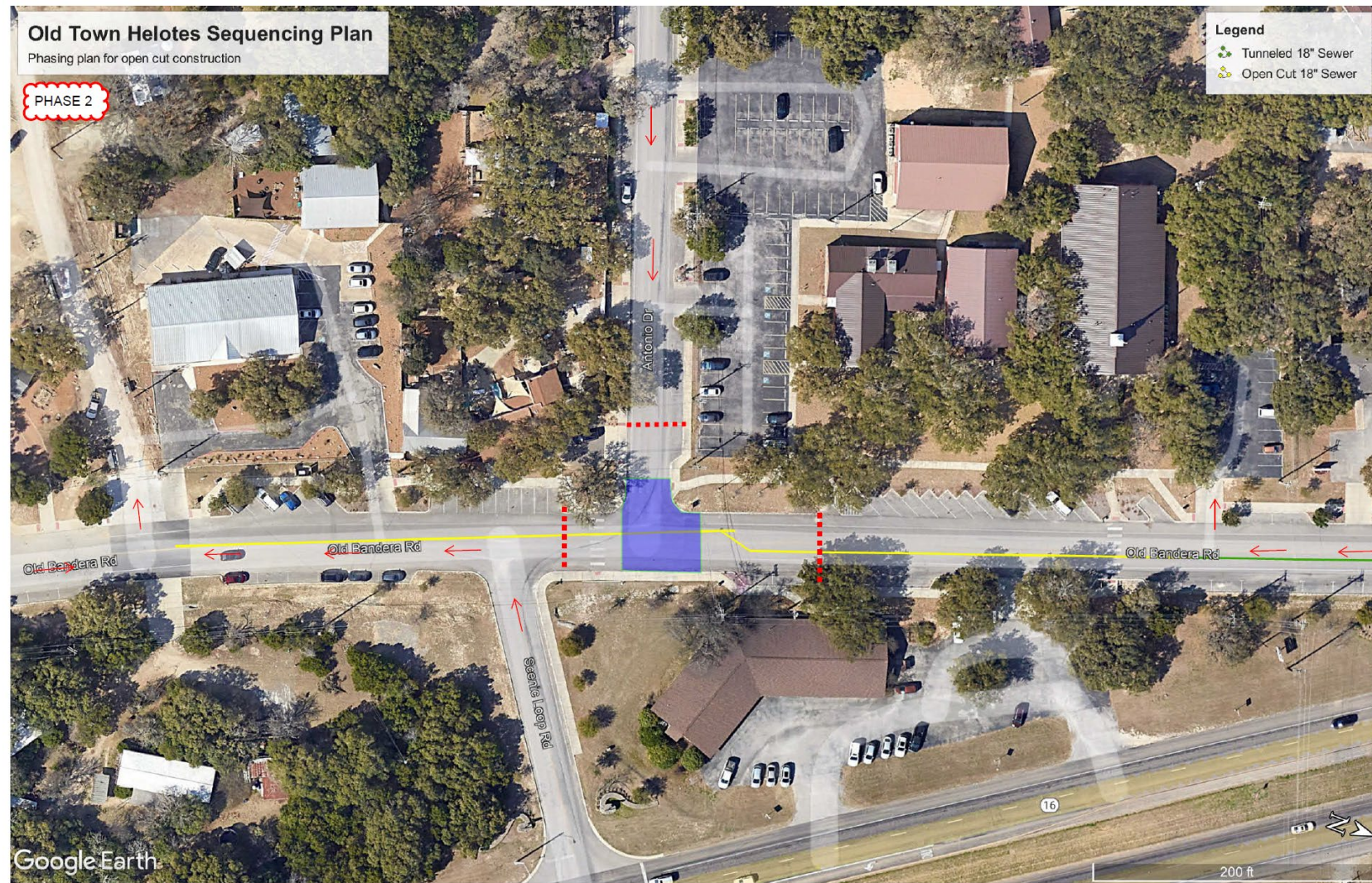
Work in Old Town Helotes – Phase I

- Closure from 14769 Old Bandera to Antonio Drive
- South of Closure Access: Old Bandera Road
- North of Closure Access: Dent Lane, Antonio Drive via 1560
- Estimated construction time: 2 weeks



Work in Old Town Helotes – Phase 2

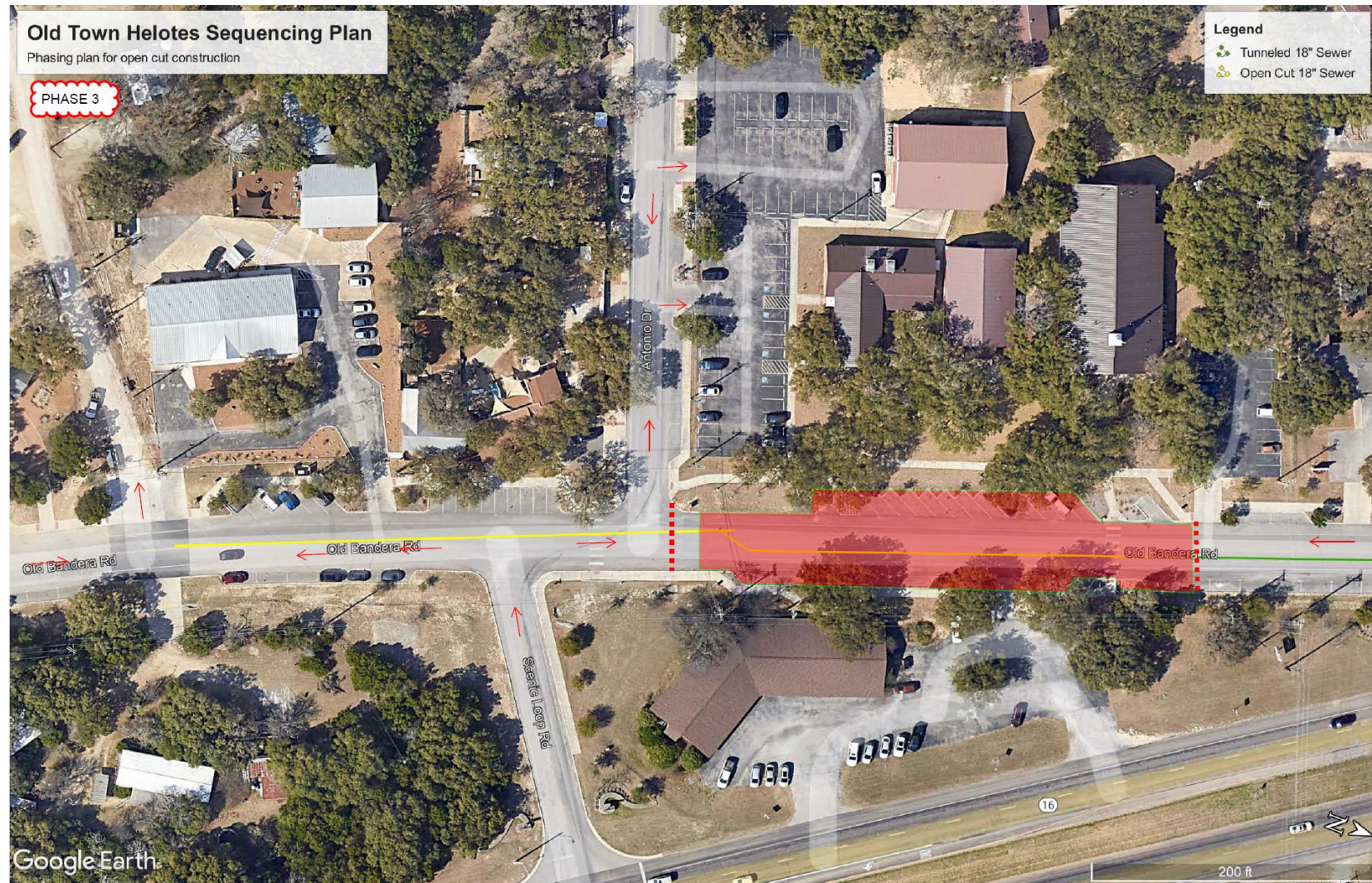
- Closure Antonio Drive Intersection
- South of Closure Access: Old Bandera Road, Scenic Loop Road, Antonio Drive via I560
- North of Closure Access: Dent Lane
- Estimated construction time: 1 week



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Work in Old Town Helotes – Phase 3

- Closure from Antonio Drive to start of trenchless construction
- South of Closure Access: Old Bandera Road, Scenic Loop Road, Antonio Drive via I 560
- North of Closure Access: Dent Lane
- Estimated construction time: 3 weeks



Helotes Creek Gravity Main and Lift Station #246 Elimination

Key Project Information

- During this construction, various roads in the area will be partially closed for alternating periods of time. When there can be only one lane open, flaggers will be used to direct traffic safely through the construction zone. Access to all driveways will be maintained as much as possible.
- We will provide more information regarding street closures and detours to the City of Helotes for inclusion in their communication to residents as well as to residents via postcards and/or doorhangers.
- SAWWS staff has been working with the City of Helotes to minimize traffic impact during key events like Market Days and Cornyval.

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Questions?

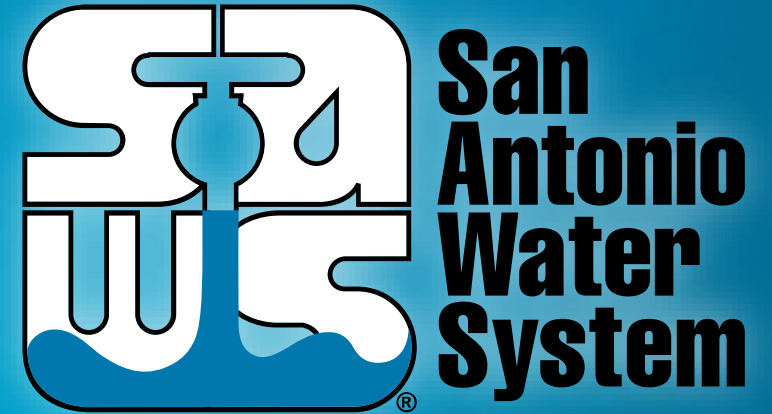
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