



**City of Diamondhead**

**Opinion of Probable Cost**

**Modernization of Utility Infrastructure**

Scope of Work	Cost
Bank Stabilization	\$ 4,475,000.00
Utility Adjustments and Hardening	\$ 1,750,000.00
Removal and Restoration of Sedimentation	\$ 1,775,000.00
<b>Total Estimated Project Cost</b>	<b>\$ 8,000,000.00</b>



2026

# City of Diamondhead



PREPARED FOR:  
CITY OF DIAMONDHEAD, MS

Modernization of  
Utility Infrastructure



# Bank Stabilization

## DIAMONDHEAD BANK STABILIZATION

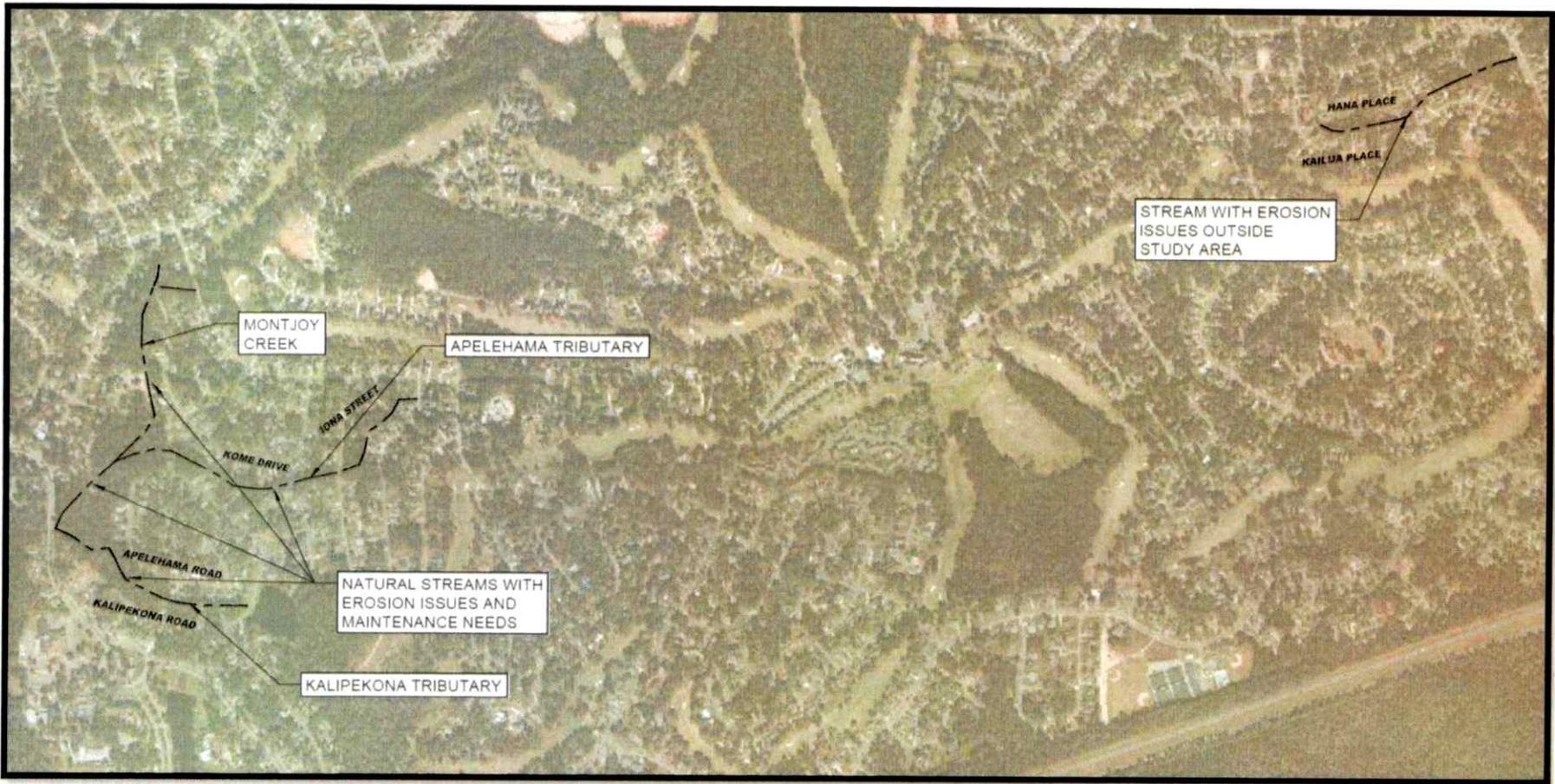
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*Watershed A, 55, and 56 Overview*

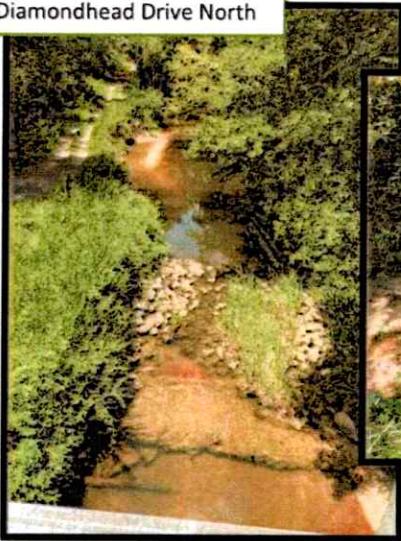
### EXISTING DRAINAGE SYSTEM

- The existing drainage system in this area consists of open ditches, driveway culverts, and landscape culverts which discharge to natural tributaries.
- Consists of tributaries that drain into Montjoy Creek also known as Rotten Bayou. Tributaries include Apelehama and Kalipekona. These tributaries were modeled and analyzed for capacity and erosion issues.
- These drainageways are heavily vegetated and meander between private property making access difficult for future inspection and maintenance.
- There are locations where there are abrupt changes of direction with minimal to no bank protection that have led to erosion issues.
- Residents have also reported erosion issues along these streams that adjoin their properties.

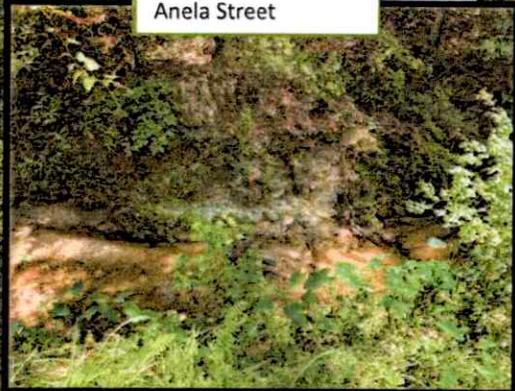


Bank Stabilization Improvements Locations

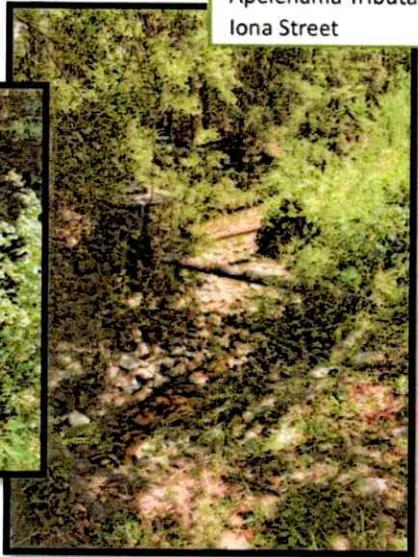
Montjoy Creek  
Diamondhead Drive North



Kalipekona Tributary  
Anela Street



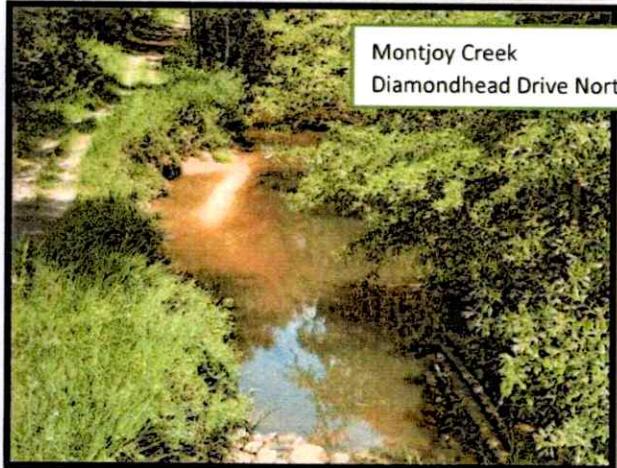
Apelehama Tributary  
Iona Street



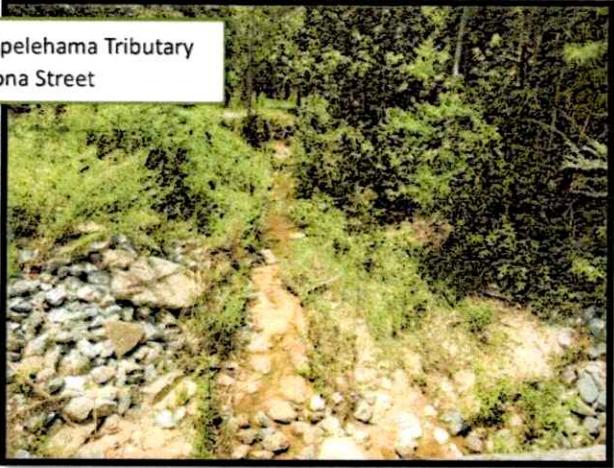
Montjoy Creek  
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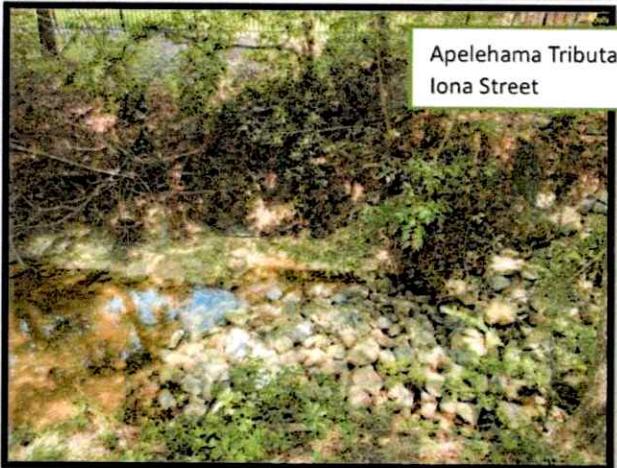
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Apelehama Tributary  
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# Utility Adjustments and Hardening

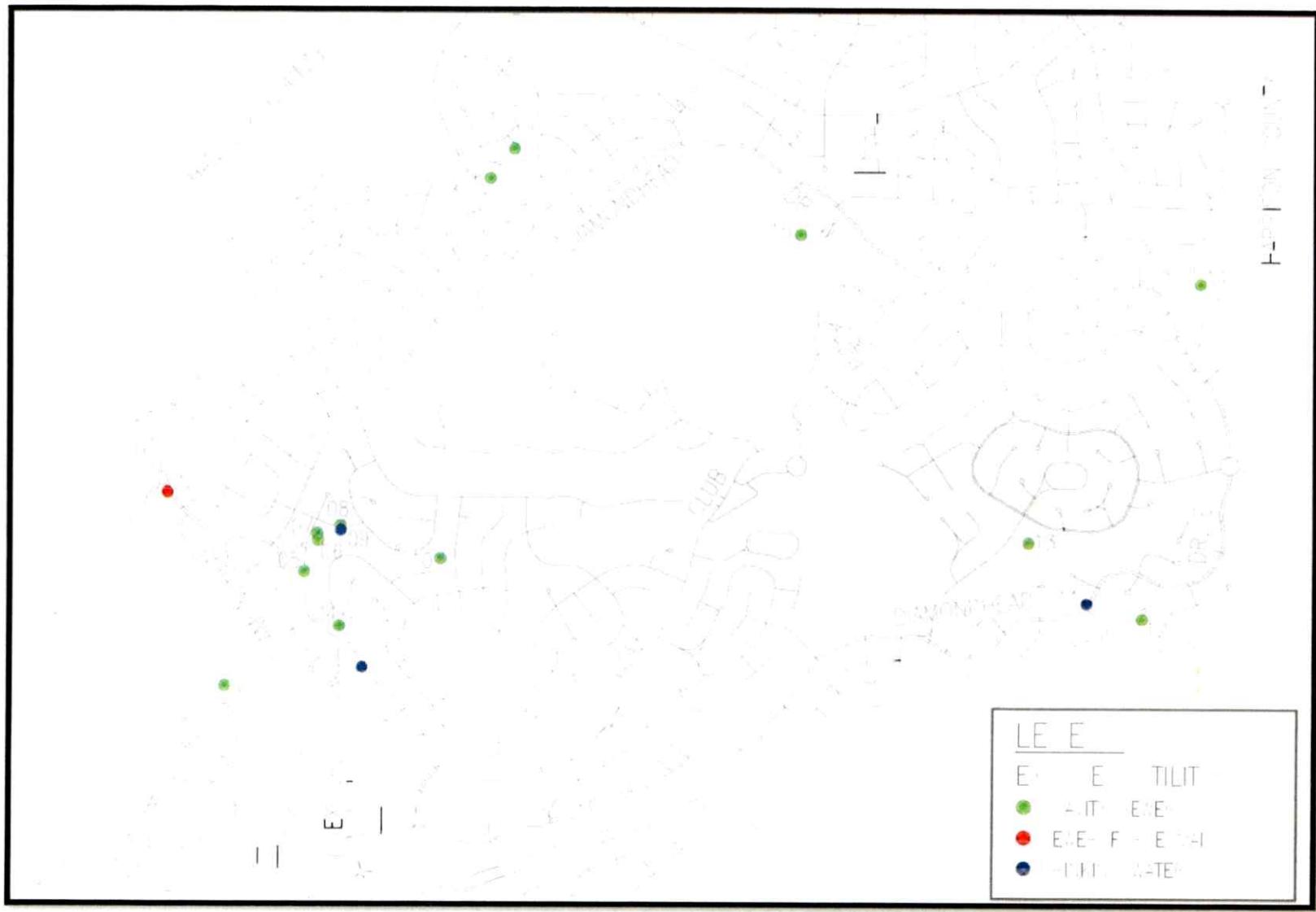
## EXPOSED WATER & SEWER AT DRAINAGE STRUCTURES

Diamondhead Water Sewer District evaluated all locations where Water and/or Sewer lines intersect drainage structures. Described herein is a list of critical issues that were identified and documented.

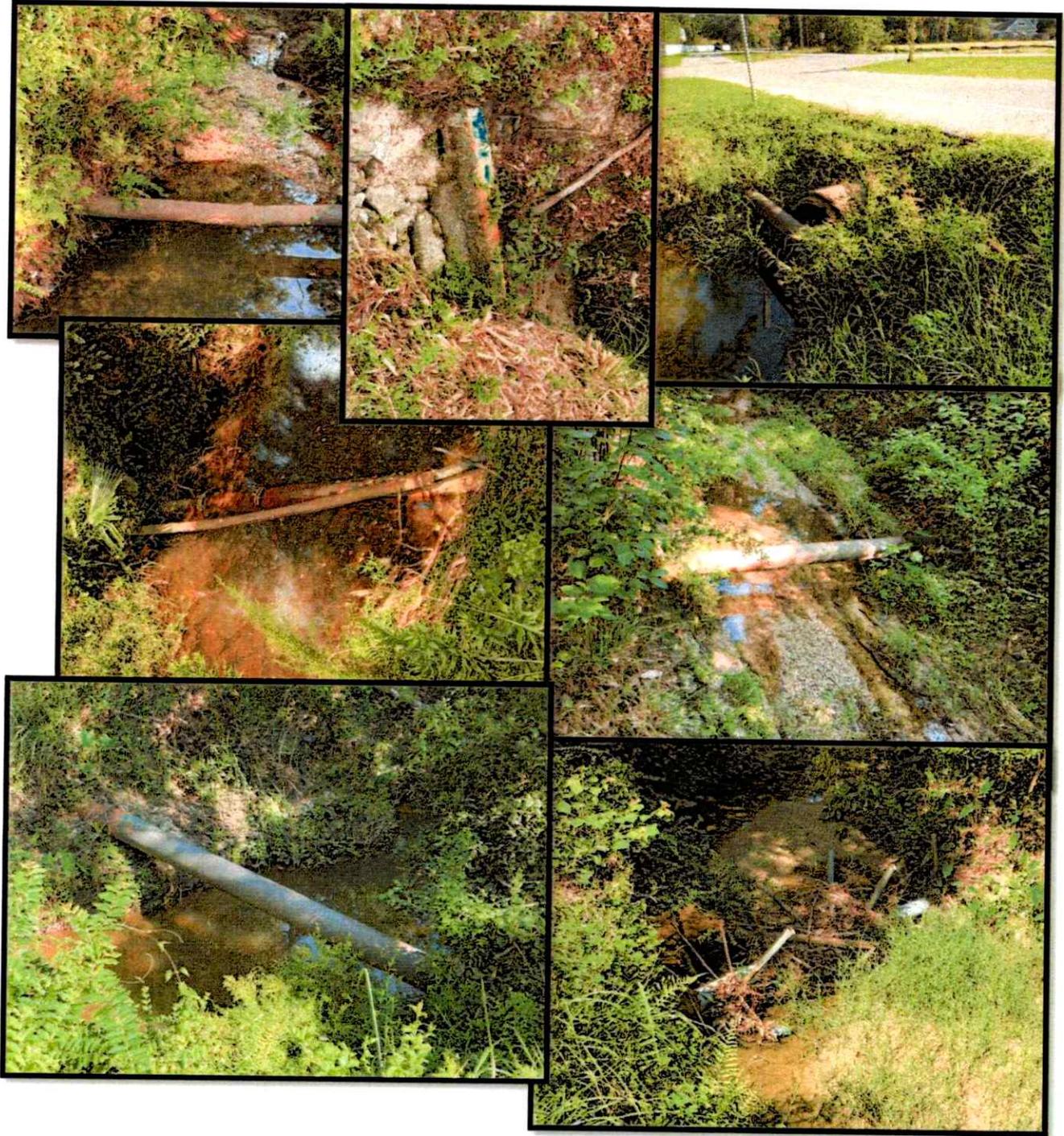
The following list contains utility lines that are exposed and/or aerial among drainage crossings. With over 150 intersections between water/sewer and drainage structures in Diamondhead, without preventative evaluation, the number of exposed utilities could continue to grow.

No.	Location Description	Approx. Coordinates	Material & Type
01-A	Creek crossing of Noma Dr	N30.3809 W89.3834	Ductile Iron Sewer
01-B	Creek crossing of Noma Dr	N30.3809 W89.3834	PVC/HDPE Sewer
02	West of DH Dr N near Devil's Elbow	N30.3879 W89.3859	Ductile Iron Force Main
03	DH Dr E, just east of DH Circle	N30.3816 W89.3777	Ductile Iron Water
04	North of Kalipekona Way, south of Apelehama Pl	N30.3831 W89.3786	Ductile Iron Sewer
08	Between Anela St ends, west of Kome Dr	N30.3867 W89.3786	Ductile Iron Sewer
09	Between Anela St ends, west of Kome Dr	N30.3867 W89.3786	DI to PVC Water
10	West of Iona St, SE of Kome Dr, NE Apelehama Cir	N30.3856 W89.3745	Ductile Iron Sewer
12	S of Auiki Pl, W of Apuwai Pl and E of Apona Ct	N30.3835 W89.3454	Ductile Iron Sewer
13	West of Pelican Cove cul de sac, E of Hilo St	N30.3863 W89.3501	PVC Sewer
16-A	North of Op La Way, south of Lae Pl	N30.3994 W89.3725	PVC Sewer
17	Southwest of Kolo Ct, east of Lae Pl	N30.4005 W89.3715	PVC Sewer

*Exposed Utility Location and Description*



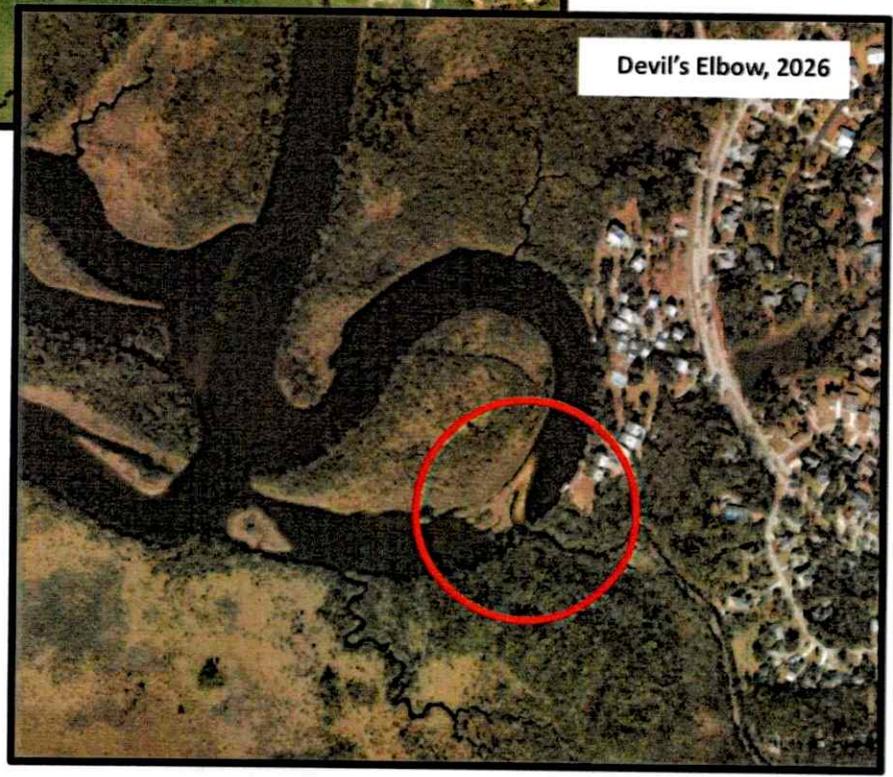
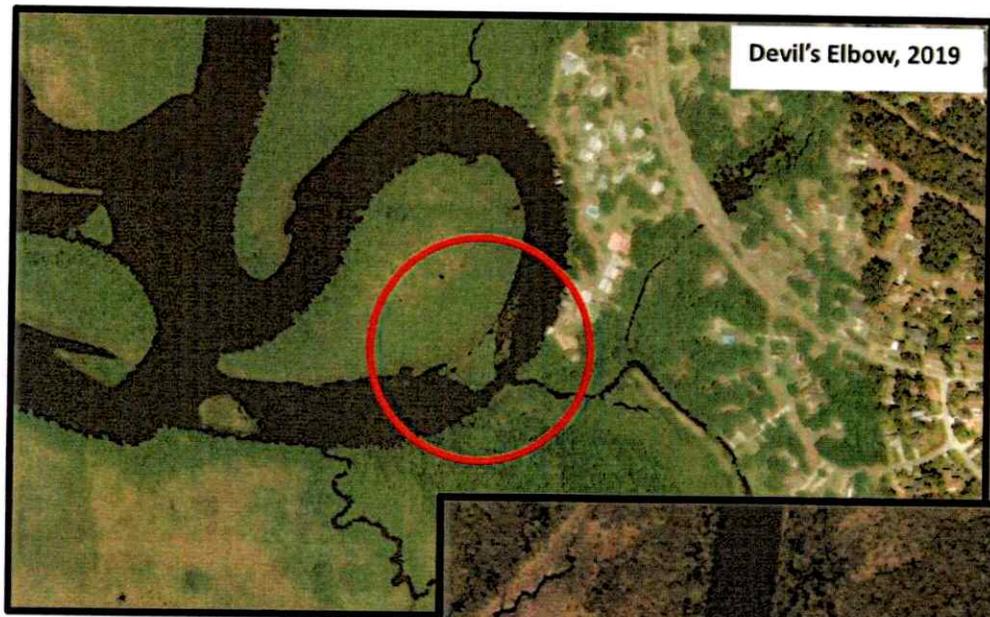
Exposed Utility Locations





# Sedimentation Removal and Restoration

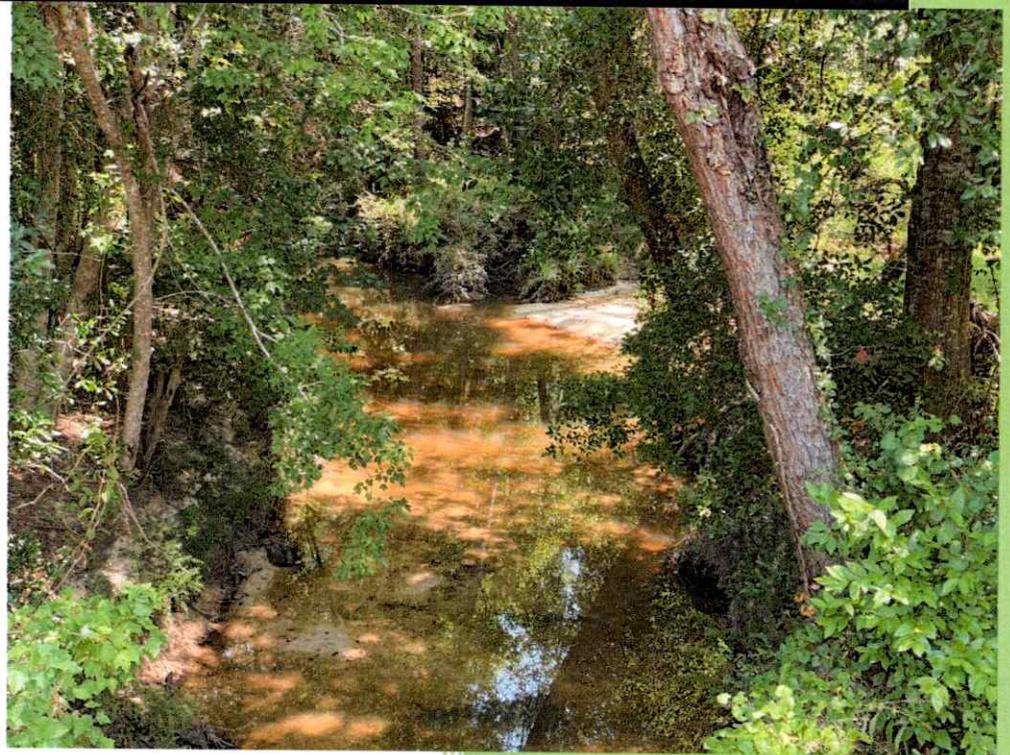
- Upstream erosion causes downstream sedimentation causing loss of drainage capacity and flooding of drainage system.
- The erosion is due to urbanization and increased runoff.
- Currently, the City of Diamondhead is designing and constructing sediment traps in Montjoy Creek to prevent future sedimentation.
- Dredging is needed to restore capacity function and use to the City of Diamondhead.
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# City of Diamondhead



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Utility Infrastructure



### Executive Summary

The city of Diamondhead started as a rural residential community in the early 1970’s. The community included over 10,000 parcels for residential and commercial development. Diamondhead was incorporated in 2012 and the City took over responsibility for maintenance of drainage and roadway infrastructure while working closely with the Diamondhead Water and Sewer District who maintains all water and sewer infrastructure.

With the majority of infrastructure (roadways, stormwater, water and sewer) installed in the 1970s, 80s and 90s; and the growth of residential and commercial development; this young city has a monumental task of upgrading and maintaining aging infrastructure.

**The City has identified the following critical components:**

- Bank Stabilization to repair existing erosion issues;
- Utility adjustments and hardening to stabilize threatened water and sewer infrastructure;
- Sedimentation removal and restoration caused by erosion.



**City of Diamondhead**

**Opinion of Probable Cost**

**Modernization of Utility Infrastructure**

Scope of Work	Cost
Bank Stabilization	\$ 4,375,000.00
Utility Adjustments and Hardening	\$ 1,700,000.00
Removal and Restoration of Sedimentation	\$ 1,750,000.00

**Total Estimated Project Cost \$ 7,825,000.00**

**Key Takeaways:**

- The city of Diamondhead is currently investing over \$3,600,000 of City and Grant Funds to address these issues.
- The project is scalable and can be implemented in phases.

# Bank Stabilization

## DIAMONDHEAD BANK STABILIZATION

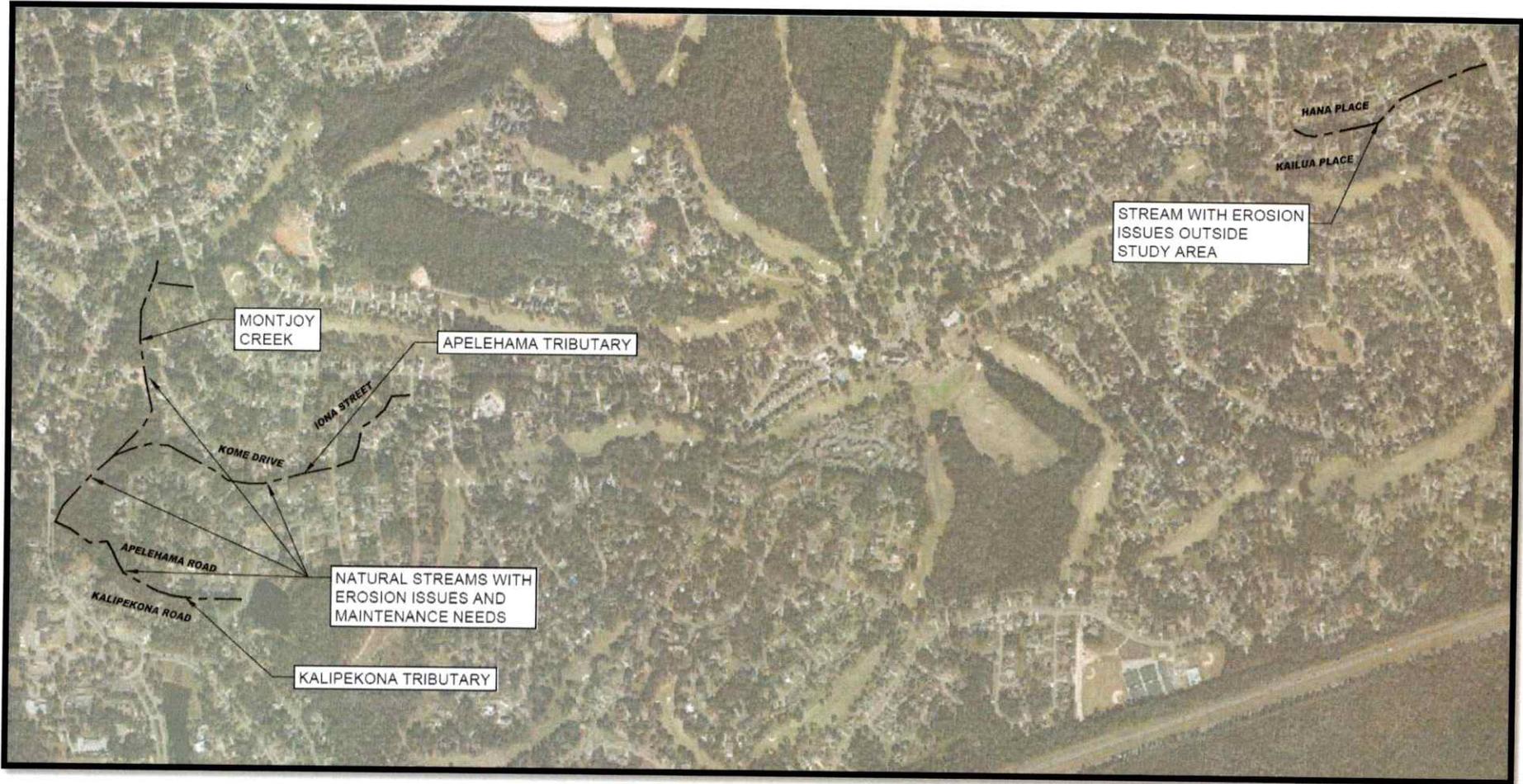
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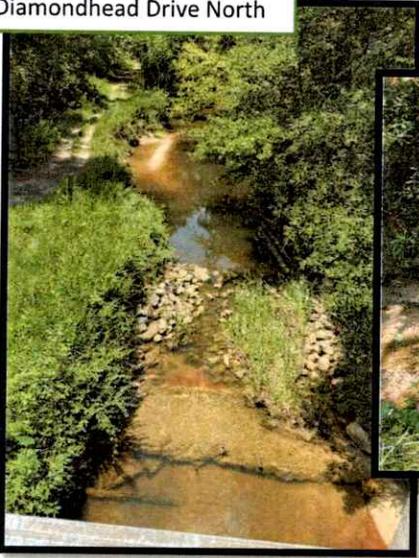
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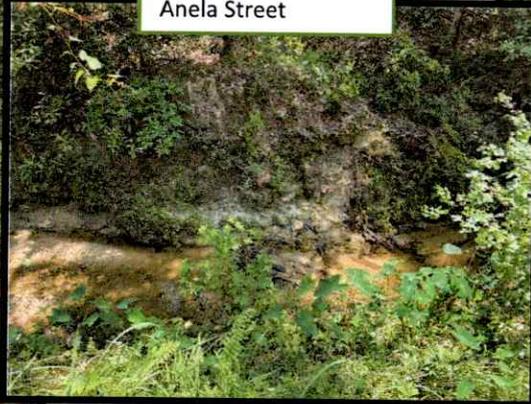


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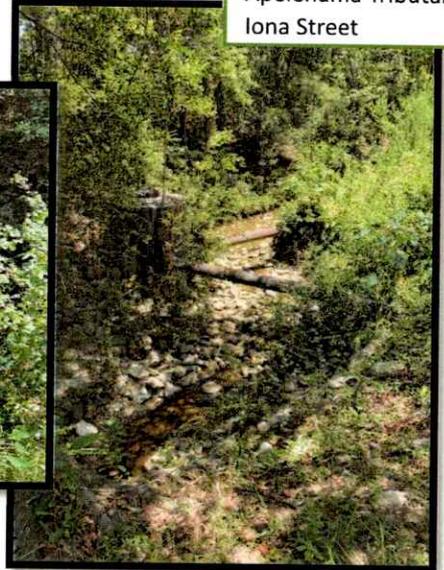
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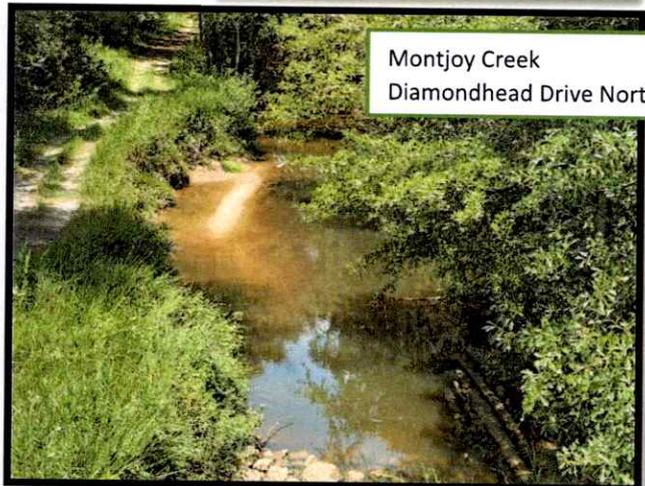
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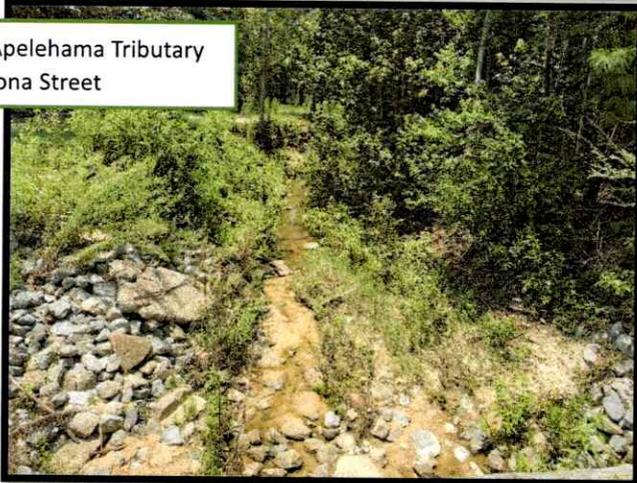
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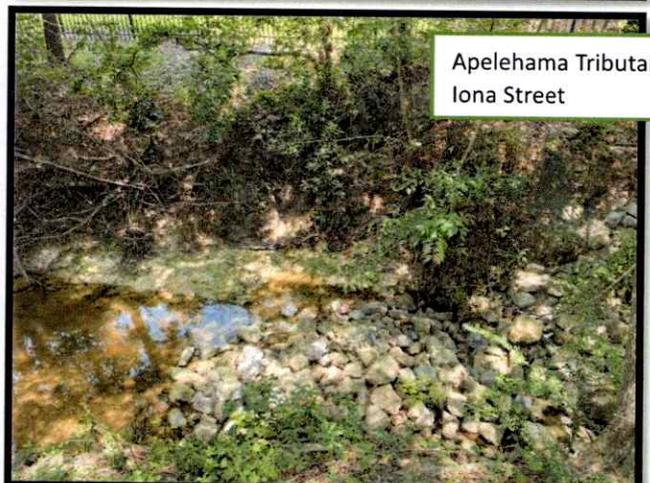
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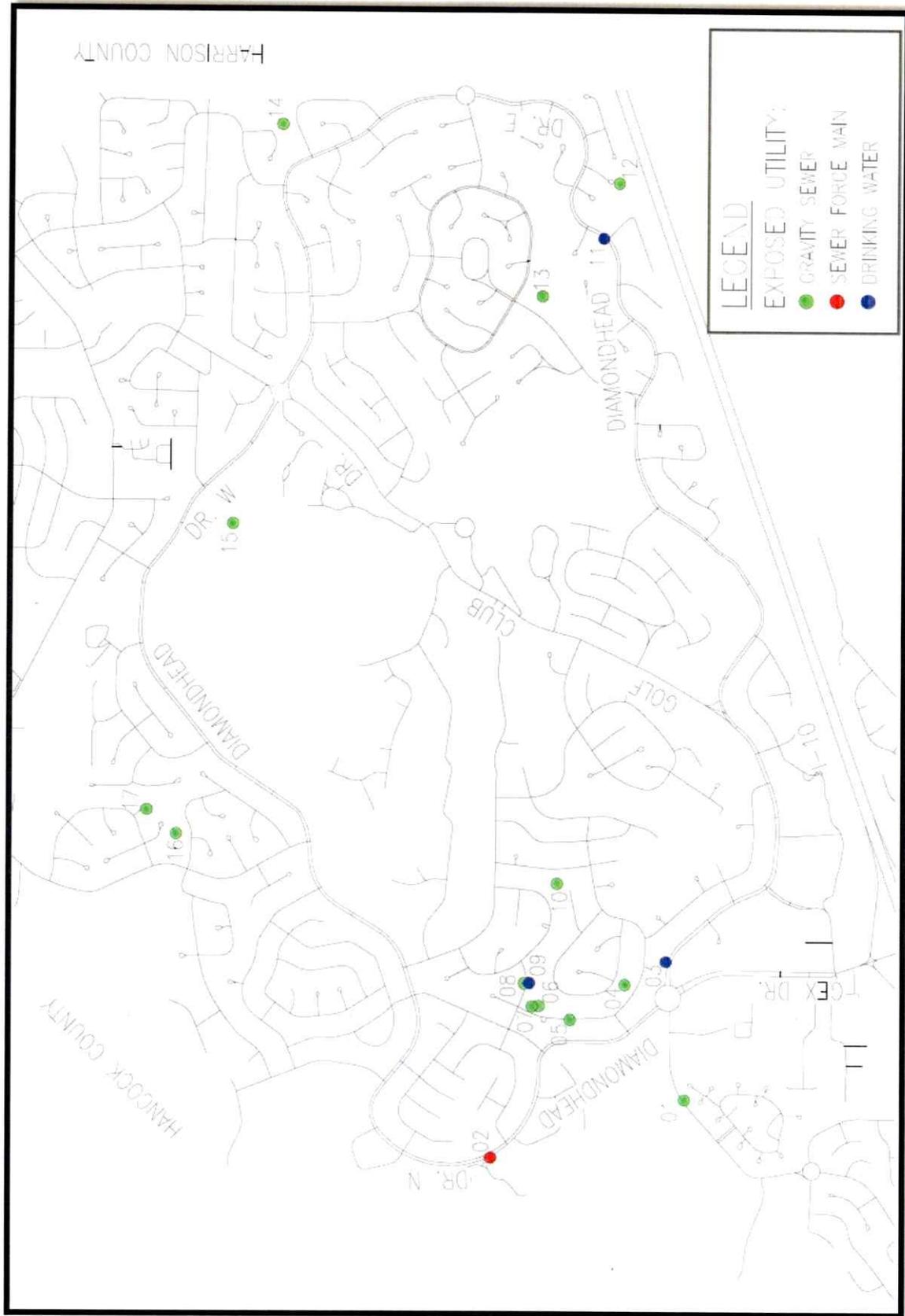
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Exposed Utility Locations





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