



CITY OF  
**WHITEFISH**  
MONTANA



# Armory Road Reconstruction

*Engineering design awarded to  
Morrison-Maierle on 08/05/2024*

## Preliminary Design

April 2, 2025 - Public Meeting #3



Welcome!

Thank You For Coming!

# Your Project Team

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## City of Whitefish:

- **Craig Workman, PE** – Public Works Director
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## Morrison-Maierle:

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- **Bryan Vanderloos, PE** - Design Manager
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- **CR Leisinger, PE** – Utility Design Engineer
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# Project Background

Armory Road, a collector roadway, has seen increased traffic due to the City's growth. A 2022 study showed 844 weekday and 616 weekend trips.

The Armory Road Reconstruction Project will design and construct approximately 3,050 ft from E. 2nd Street to Dodger Lane.

## Preliminary Design

### Road Design Efforts:

- Preliminary public outreach.
- Establishing the roadway alignment.
- Setting the centerline profile grade.
- Determining the roadway geometry.
- Designing the shared-use path.
- Defining construction limits.
- Assessing impacts on individual driveways.

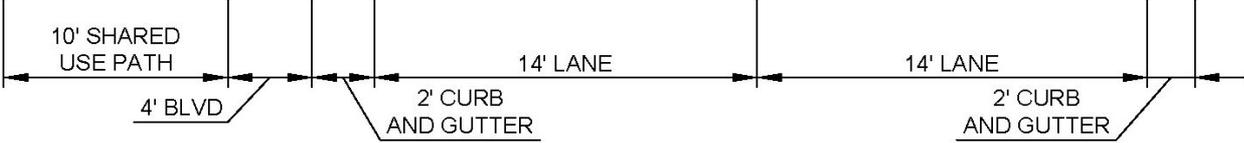
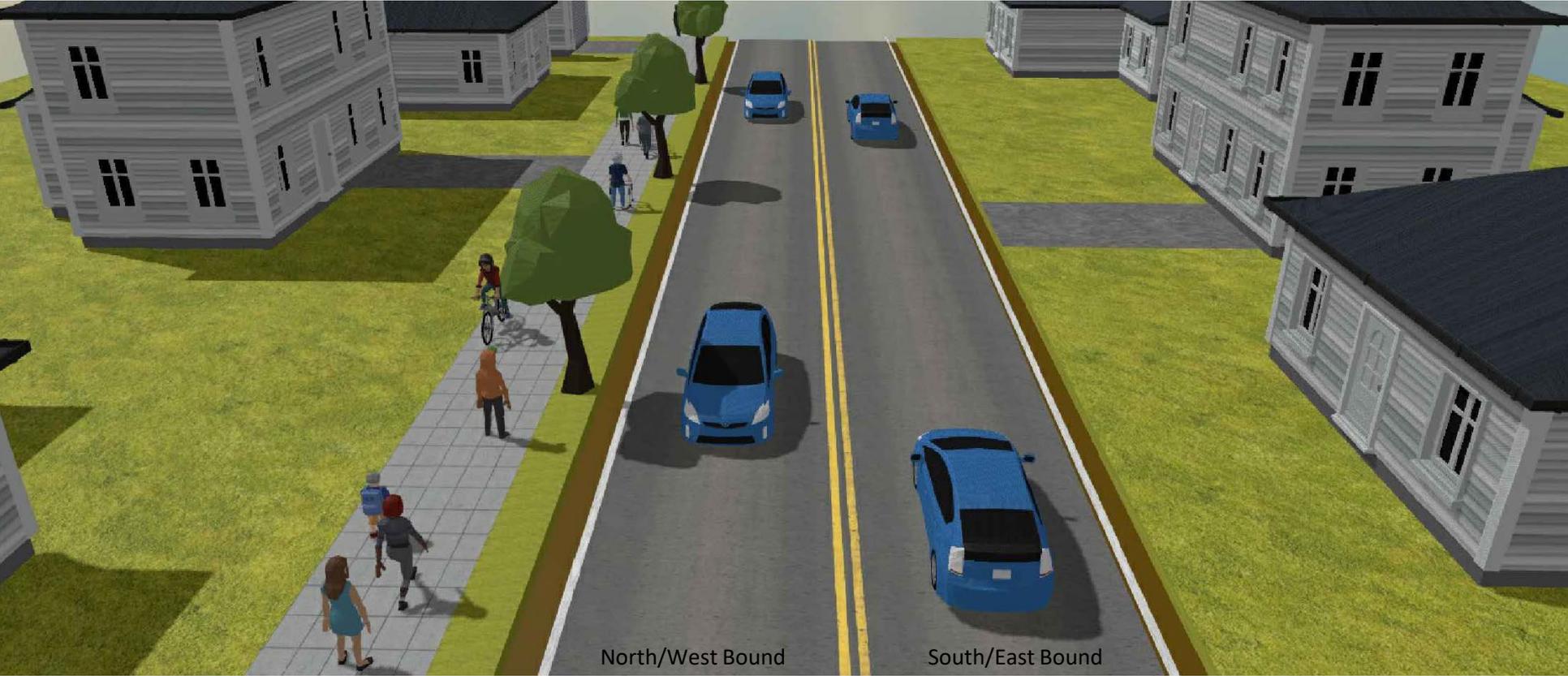
### Utility Design Efforts:

- Complete a hydrologic analysis to determine stormwater volume
- Establish stormwater layout and grades
- Determine any water or sewer main conflicts

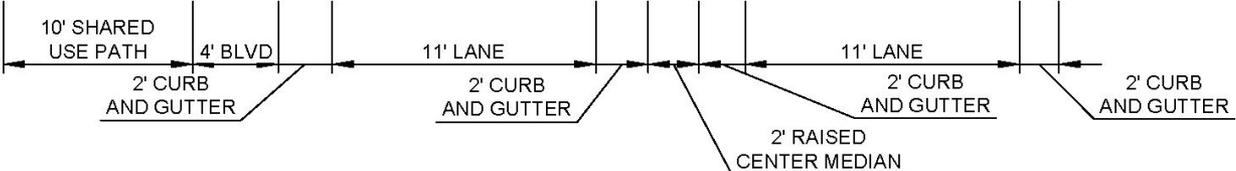
## Preliminary Road Design Update

- Centerline alignment has been established for the project.
- Curb and gutter alignments have been set.
- Boulevard width (4' minimum) and shared-use path alignments are still in progress.
- Armory Road pedestrian crossing location has been set.
- The raised center median limits have been established
- Pedestrian crossings for all major intersections have been set.
- Preliminary geotechnical report and roadway pavement section design have been completed.

# Armory Road Typical Section



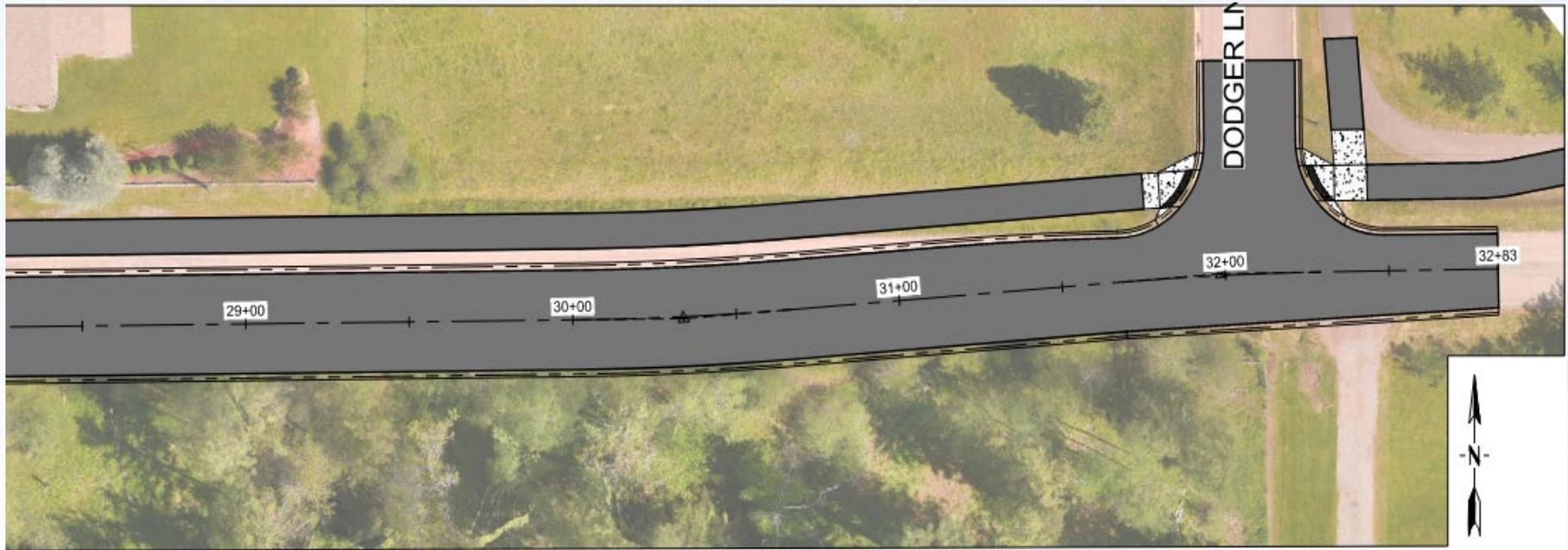
# Armory Road Raised Median Typical Section



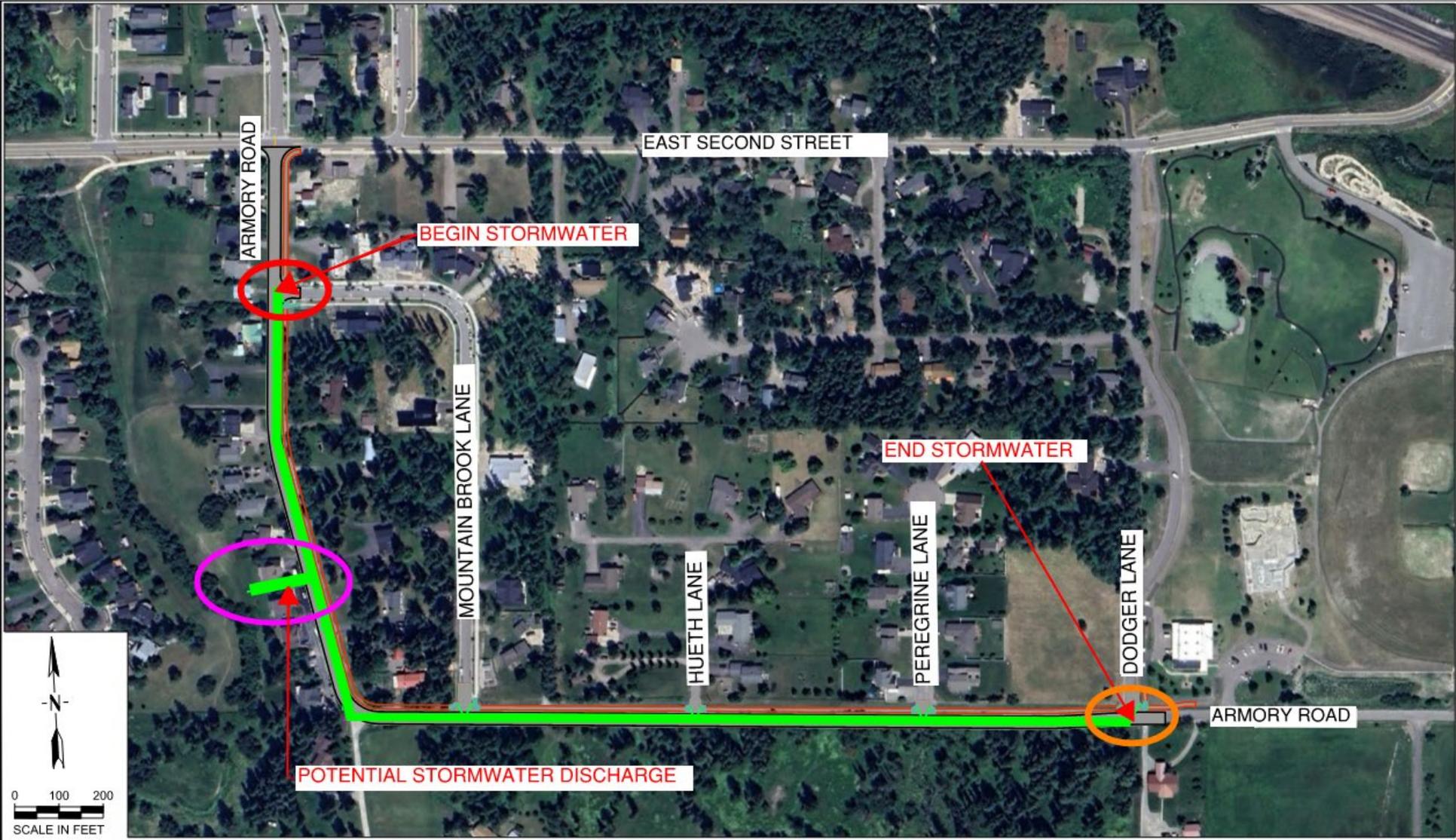
## Road Alignment Challenges

- Existing roadway is not centered in the right-of-way.
- Generally, the road right-of-way is 60' wide for the corridor.
- The proposed alignment balances the need to fit the desired 32' wide roadway and shared-use path on Armory Road's North/East side while preventing impacts to existing fences and utilities.

# Roadway Re-Alignment at Dodger Lane



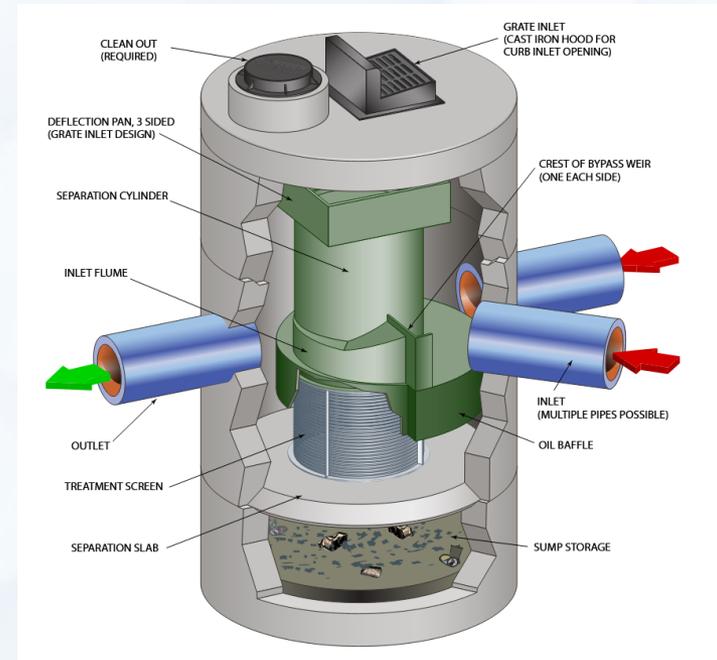
# Preliminary Stormwater Plan



# Water Quality Treatment for Stormwater

## Hydrodynamic Separator (CDS Unit)

- Treats Stormwater prior to being discharged.
- Reduces impact on the environment.
- Requires minimal space.
- Installed in-line with a stormwater pipe before discharge.
- Maintained/cleaned with a vac truck.



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# Stormwater Connection for Adjacent Properties

## *Do you have:*

Issues with water in your crawlspace or basement?

A sump pump in your basement or crawlspace?

Flooding issues in your yard?

The project will include installing a new stormwater main along the length of the project.

If your property is adjacent to the project and you are experiencing stormwater issues or have a sump pump, **please contact us** to discuss the possibility of routing a stormwater service line to your property to address the problem.



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## Frequently Asked Questions

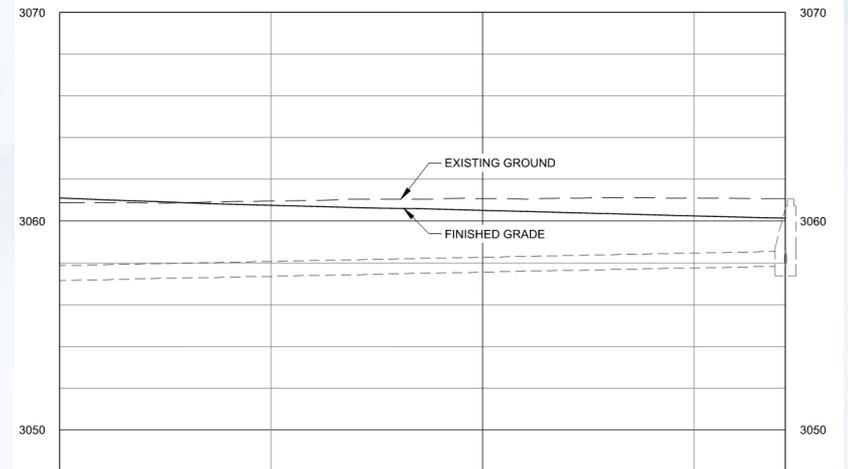
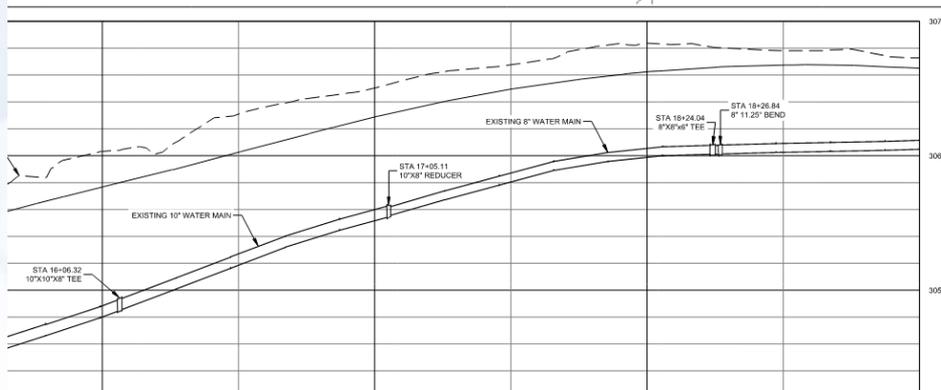
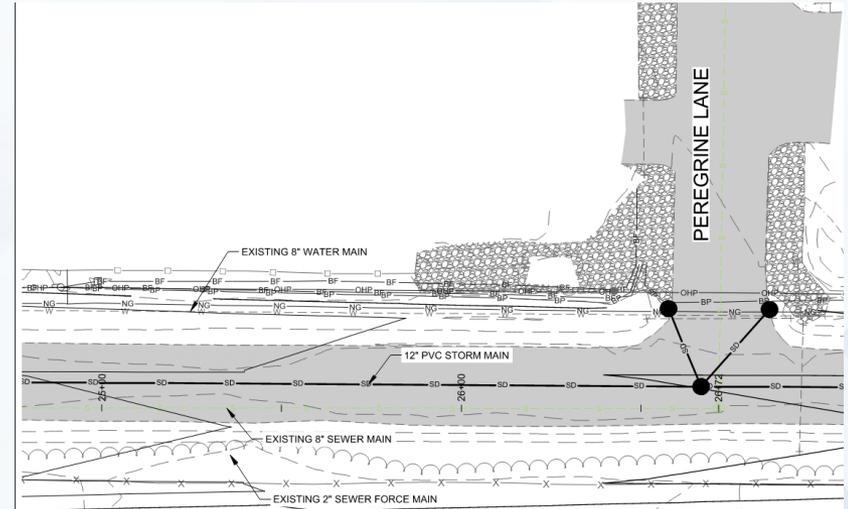
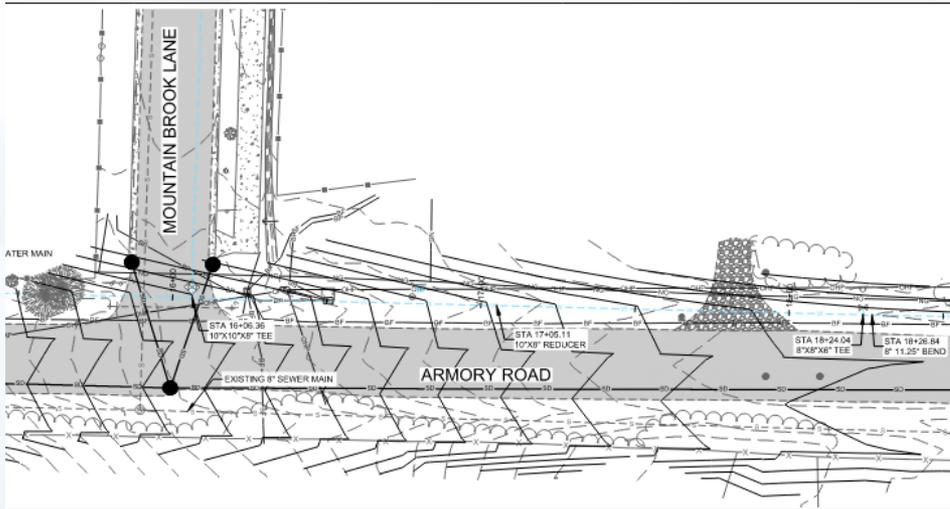
### *What is stormwater?*

Stormwater is water generated from rainfall or snow melt.

### *What is a sump pump?*

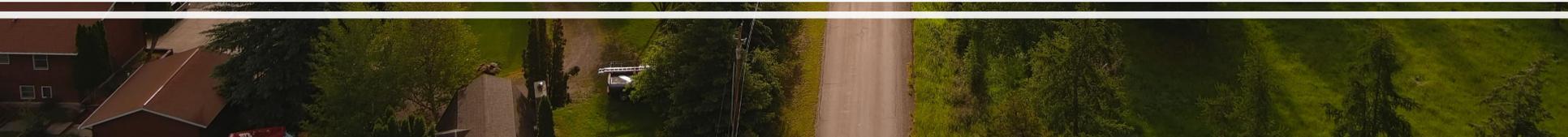
A sump pump is a device installed in a crawlspace or basement that pumps water out of the space. They are usually located in a pit in the basement or crawlspace.

# Existing Water and Sewer Bury Depth





What's Next?



## Preliminary Design Next Steps

- Finalize centerline profile.
- Finalize construction grading limits and driveway connections.
- Finalize stormwater design.
- Finalize the Armory Road pedestrian crossing.
- Determine roadside barrier type and finalize location.
- Layout the proposed signs and pavement markings.
- Finalized lighting layout.
- Verify fire hydrant spacing and locations.
- Collection of updated traffic volumes.



Questions or Comments?