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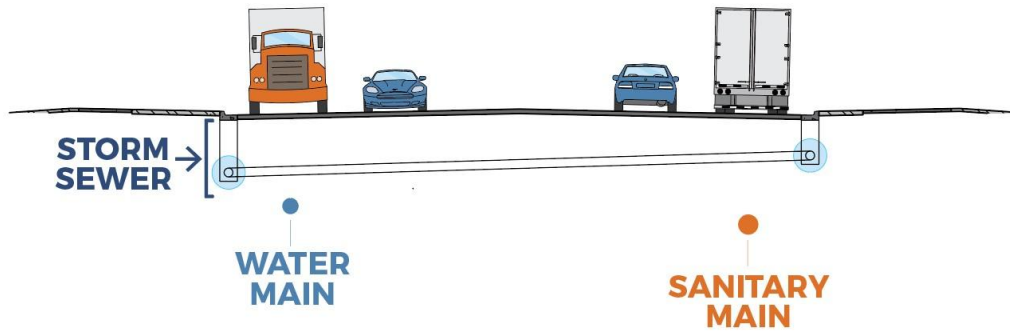
## Understanding Storm Sewers

One of the key project goals is to address drainage along Memorial Highway. Currently, ditches run on either side of the highway to collect runoff from rain in the summer and snow melt in the winter. At times where larger volumes of rain or quickly melting snow are present, area businesses have experienced stormwater flowing into or standing on their property as seen in the picture below.

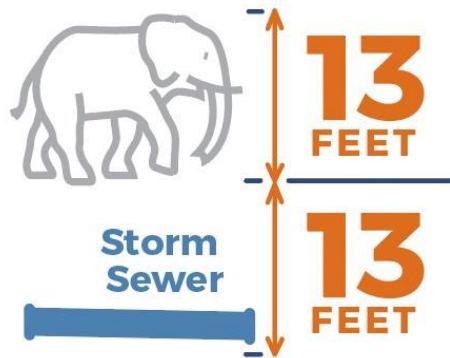


When reconstructing the highway, the new design will include curb inlets on either side of the road which will collect stormwater and channel it below the road to the Heart River or the Missouri River via Lakewood Bay. While both will run beneath the highway, this storm sewer is an independent system from the sanitary sewer main which leads to the wastewater treatment plant.

# URBAN DRAINAGE SYSTEM



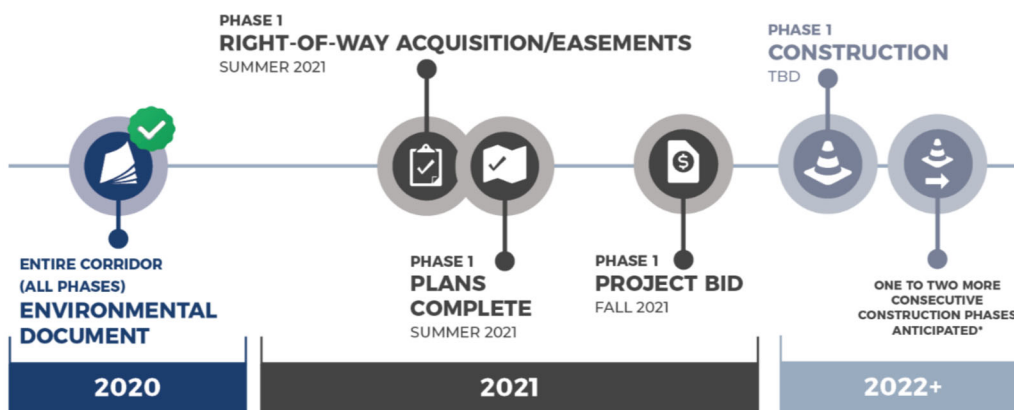
Memorial Highway is constructed on very flat terrain. In order to allow for gravity to move the storm water through the storm sewer pipe, it will be necessary for the depth of the pipe to reach as much as 13 feet underground in some areas. That's roughly the height of an elephant!



## What will we see next?

Now that the environmental document is complete, you may notice survey crews out along the corridor collecting additional information for final design activities. We anticipate final design for phase 1 construction to be completed late this summer with project bidding scheduled for the fall of this year.

Construction is tentatively planned for 2022.



The North Dakota Department of Transportation has created a web the project. Visit [dot.nd.gov/projects/memorialhwy](http://dot.nd.gov/projects/memorialhwy) for more informa submit comments, email [input@memorialhighwayproject.com](mailto:input@memorialhighwayproject.com). Pe updates will also be posted to the [cityofmandan.com](http://cityofmandan.com) website

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