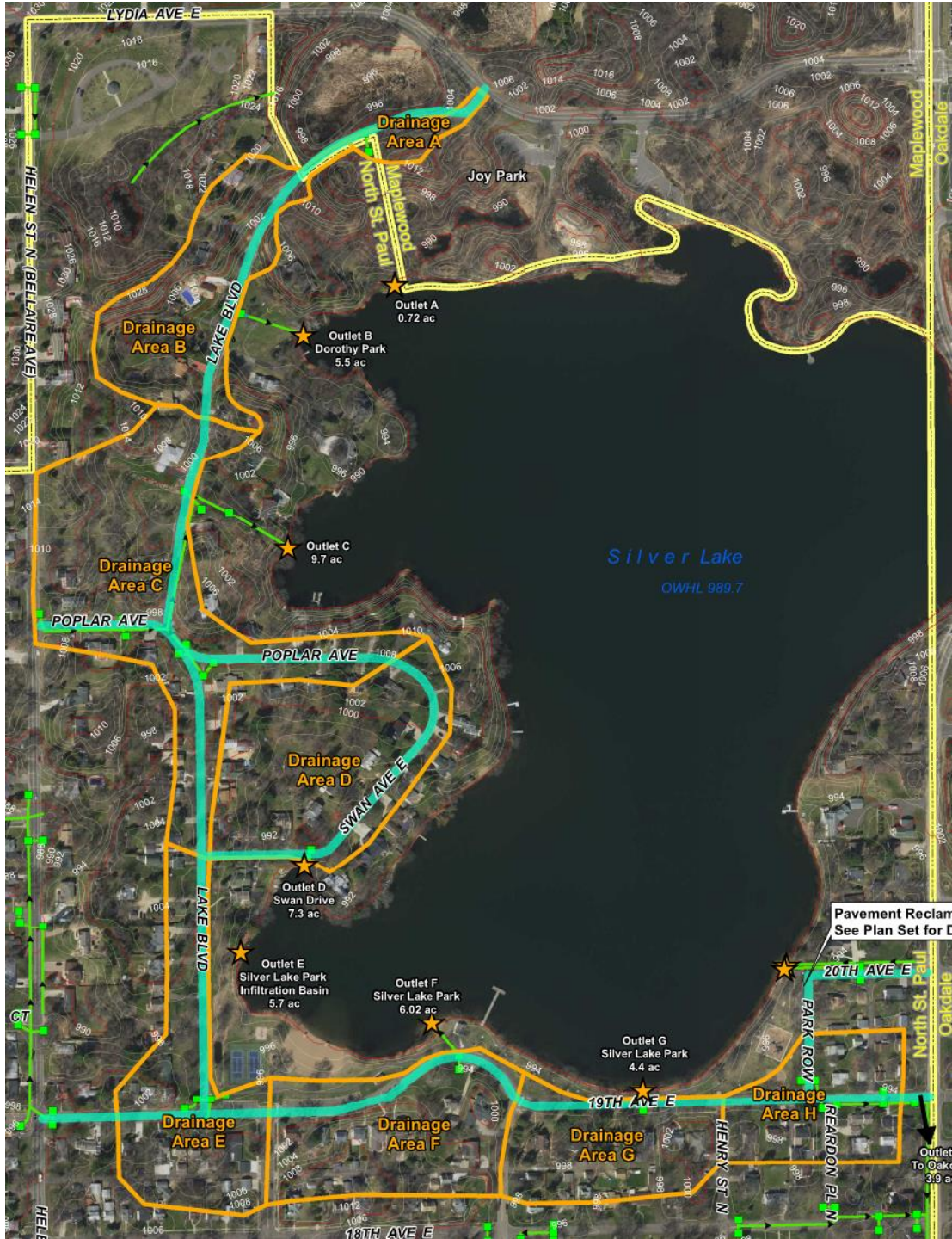


Benefits to Silver Lake from 2018/2019 Street Reconstruction Project

JANUARY 28, 2019

Project Area



Flood Improvements:

Will add capacity at the Lake & 19th Ave intersection and the alley to the south of this intersection.



Flood Improvements:

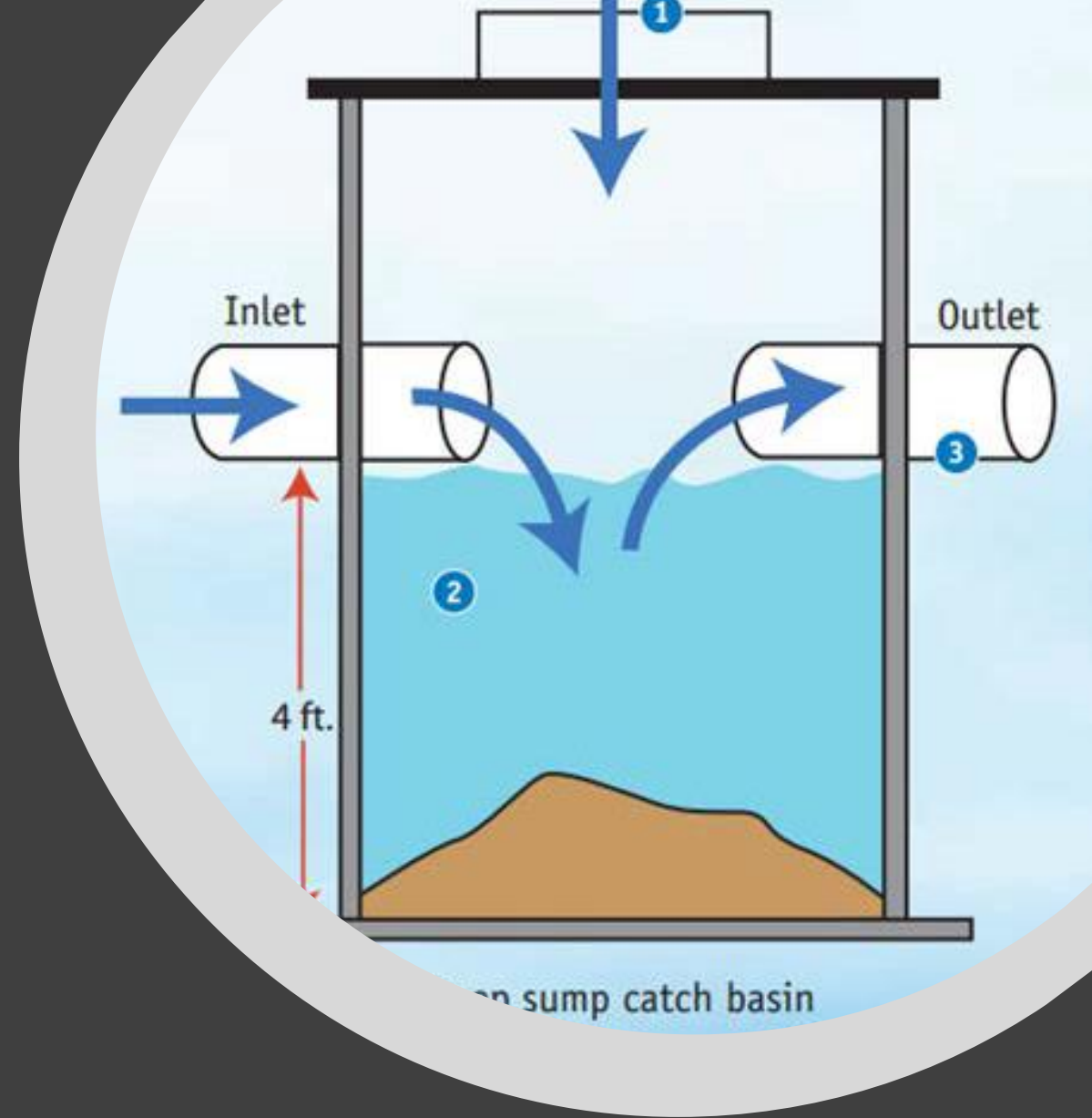
Will add capacity at Swan Ave crossing.



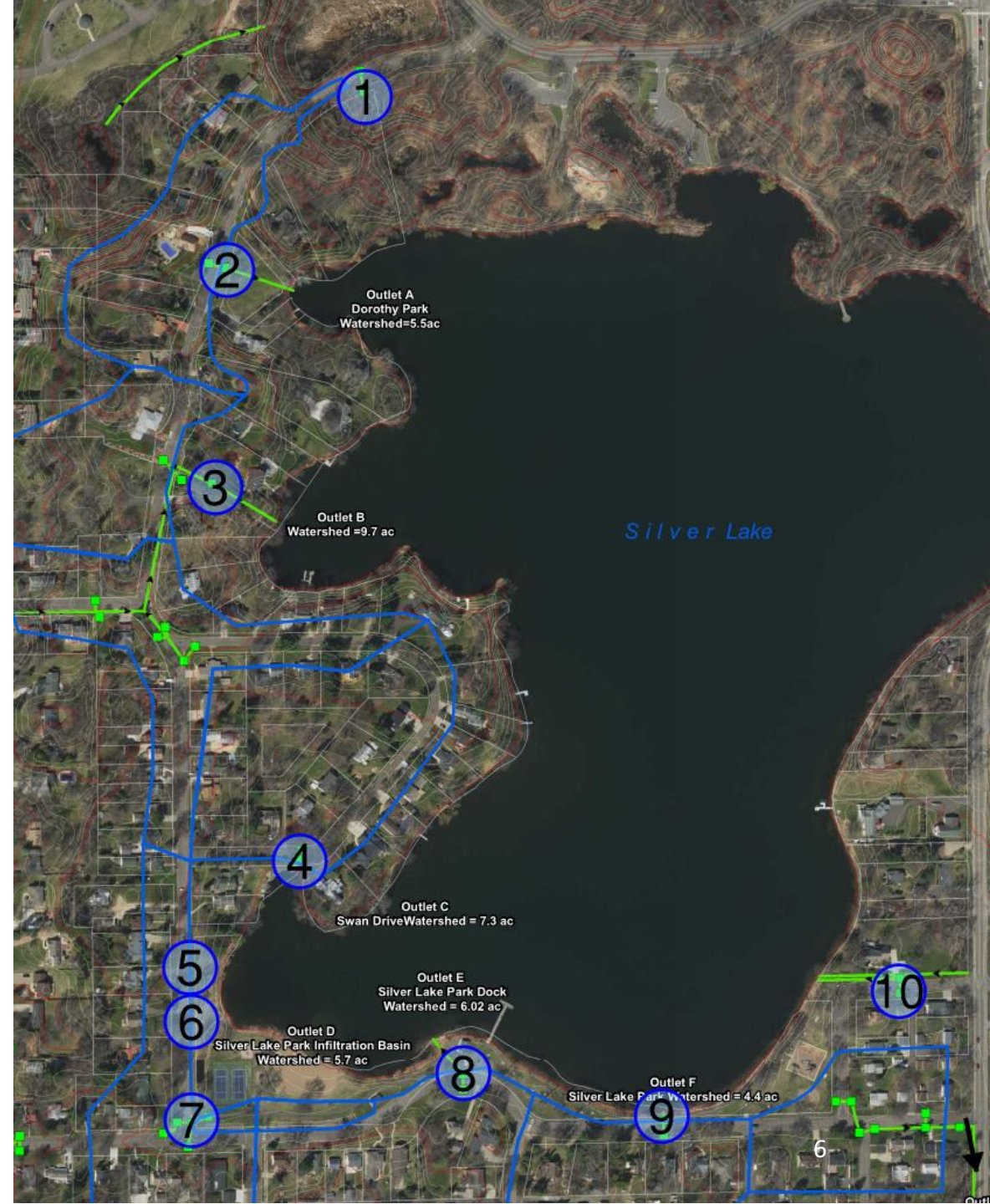
Water Quality Improvements.

Will Install Sump Catch Basins

Allow the City to catch and remove sediment at all storm sewer outfalls to Silver Lake.



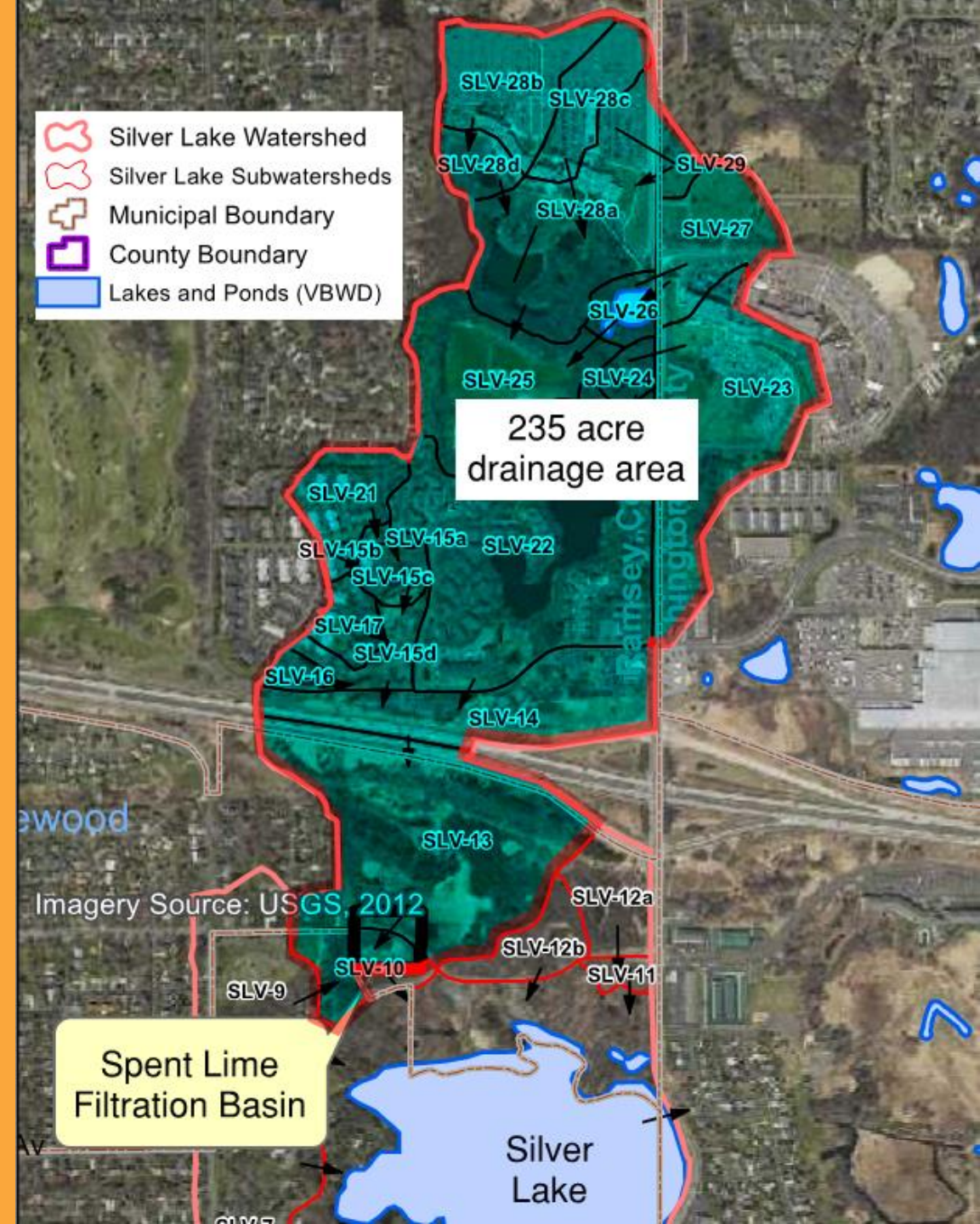
Location of Sump Manholes (10)



Water Quality Improvements.

Spent Lime Filtration Basin

- Valley Branch Watershed District Project
- Regional Drainage area – 235 acres
- Joint Powers Agreement
 - Maplewood
 - North St. Paul
 - VBWD
- This regional project is a great example of agencies working together to accomplish shared goals.



Water Quality Improvements.

Spent Lime Filtration Basin

- Spent Lime is a byproduct from treatment of municipal drinking water.
- Drainage will be diverted into the spent lime filtration basin where the spent lime binds to phosphorus in the stormwater filtering our Phosphorous prior to discharge to Silver Lake.
- Estimated to reduce watershed phosphorus loading to Silver Lake by 40%.
- Greater Phosphorus removal efficiency than other considered options
- Watershed will perform long term maintenance



Spent Lime treatment basin.

wsb 

QUESTIONS?