

# CAPACITY STUDY UPDATE

OCTOBER 29, 2020



# CAPACITY STUDY

- Design criteria requirements for sizing pipes
- Infiltration and Inflow reduction
- Identify capacity deficiencies for long term CIP
- Regulatory Compliance (Element 8 of District's SSMP)

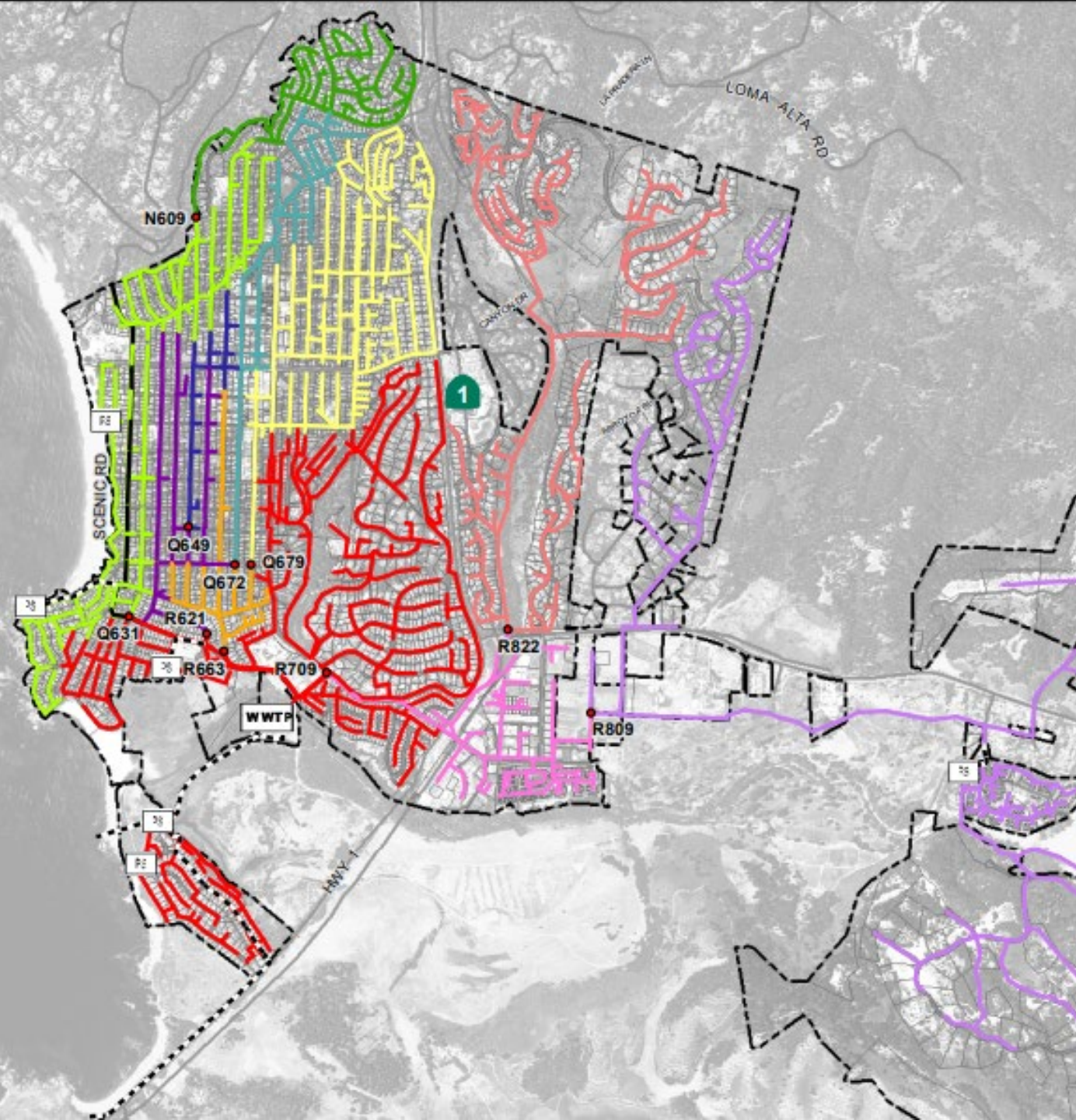


# CAPACITY STUDY BETWEEN 2015-PRESENT

PHASE 1 - Collect Flow Information And Develop Computer Model

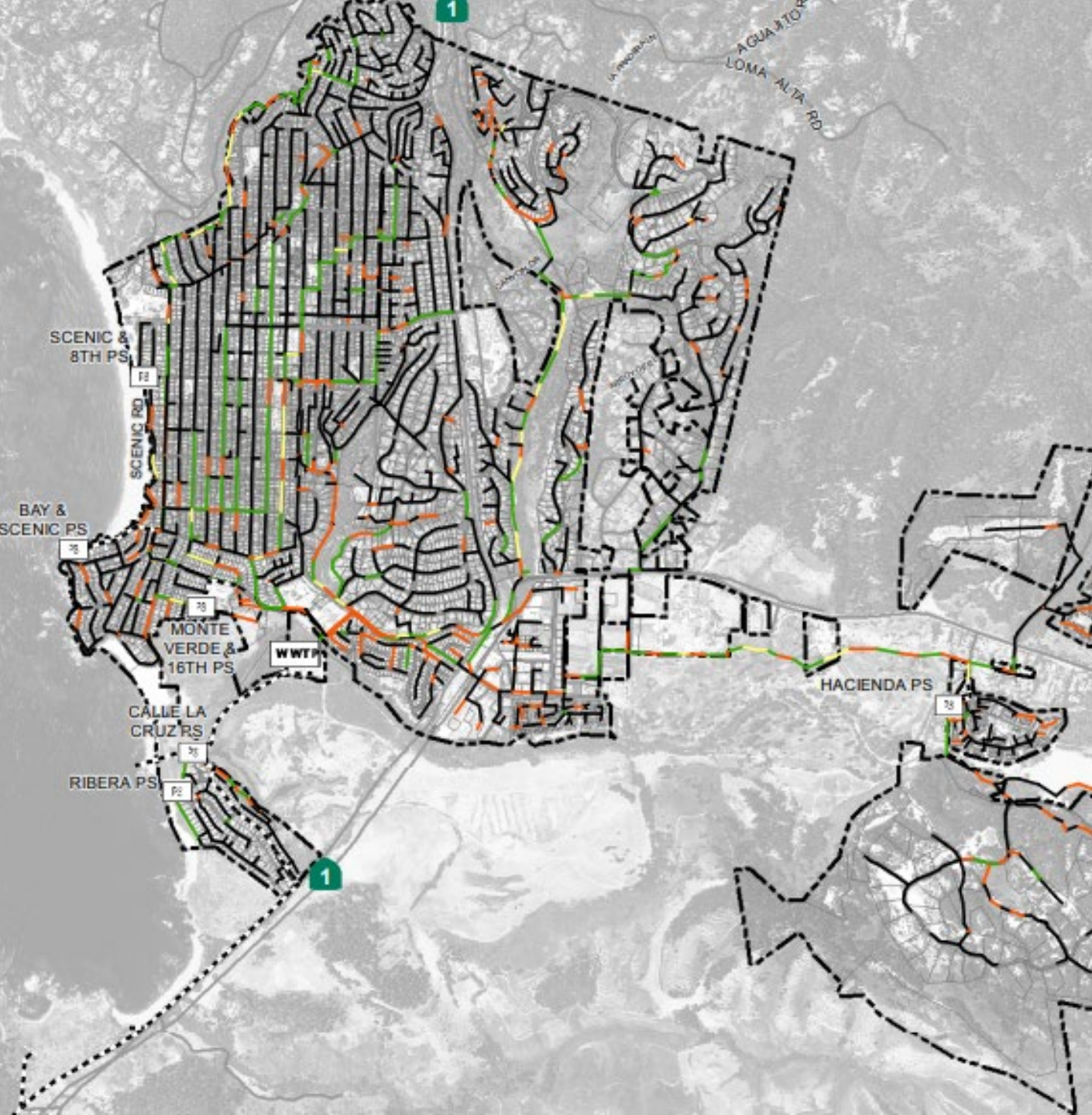
PHASE 2 – Collect More Accurate Invert Elevations And Update Model

PHASE 3 – Use Model To Provide Design Flow Recommendations For Projects



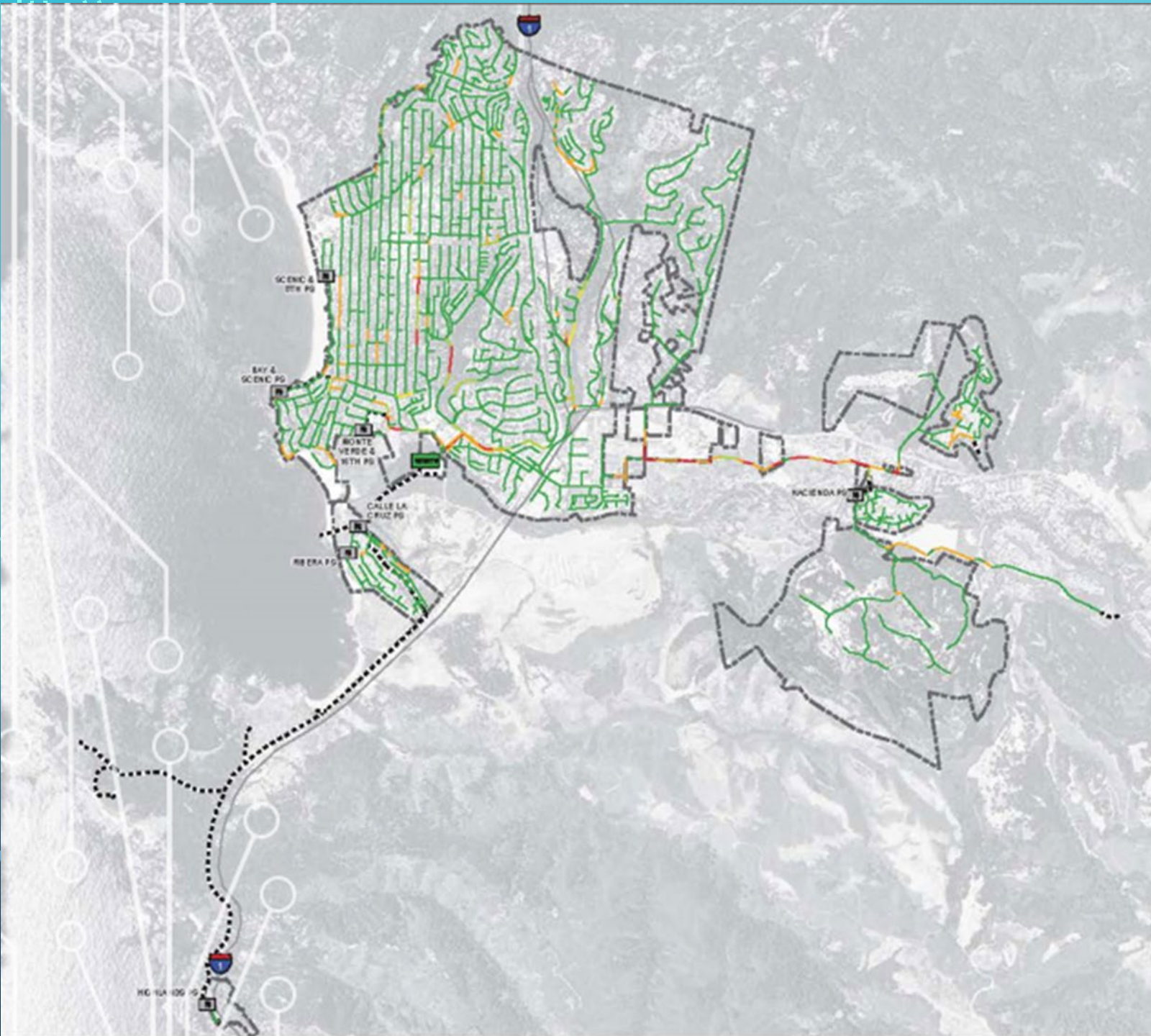
## PHASE 1

- CAWD installed flow meters in various basins throughout the collection system
- CAWD provided GPS of all manholes for location and rim elevation
- West Yost developed a computer hydraulic model of our sewer system and completed a draft hydraulic study Tech Memo Dec 2016
- West Yost estimated average peak dry and wet weather flows



## PHASE 1

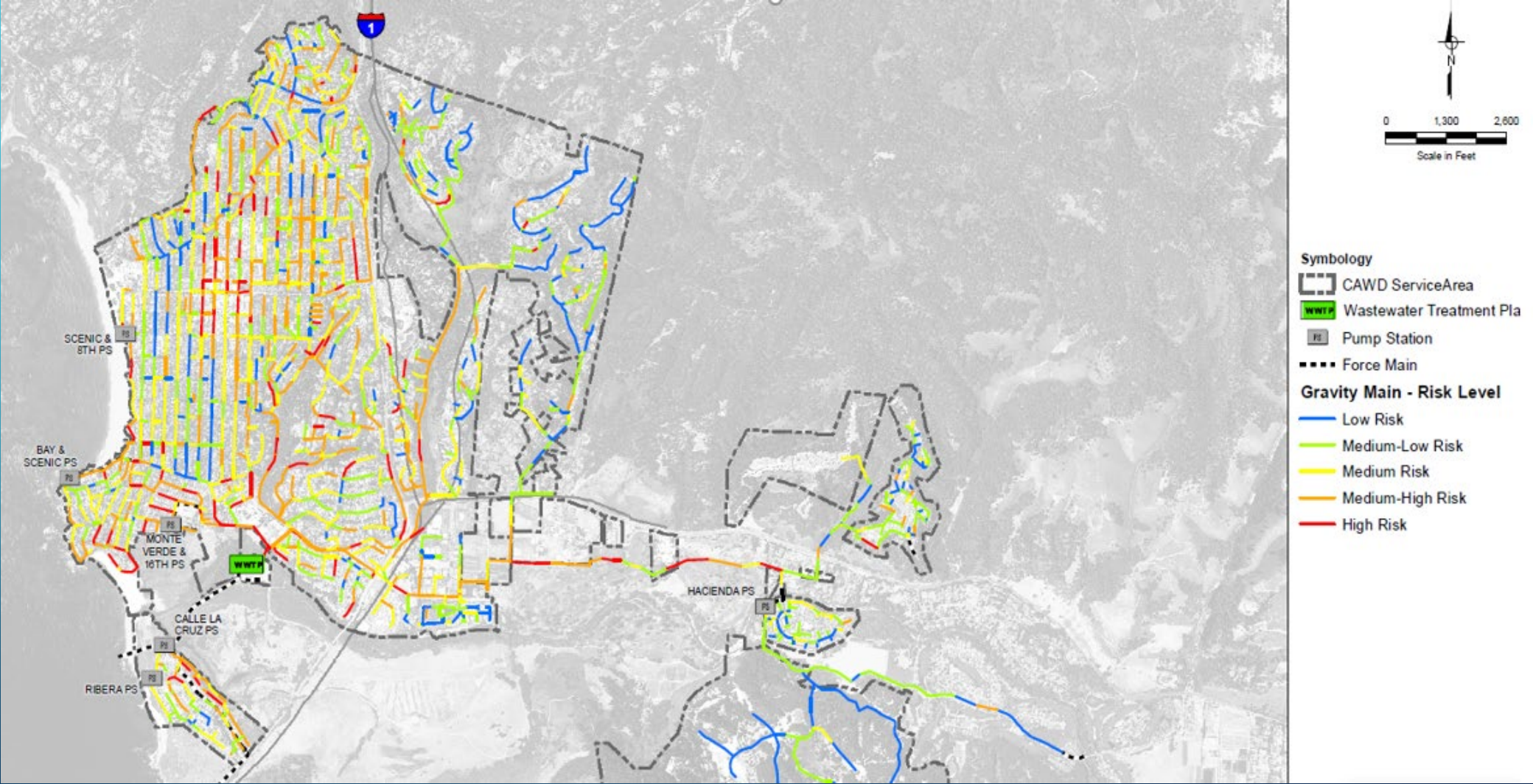
### Wet Weather Capacity Results



## PHASE 2

- Add pump station flow data to study
- Improve accuracy of hydraulic model by measuring invert elevations at selected manholes
- Updated hydraulic study Tech Memo June 2018

# PHASE 2 INFO USED TO DEVELOP ASSET MANAGEMENT PLAN –REQUIRED FOR SSMP







## NEXT STEPS

- Update Hydraulic Model to reflect construction of Hatton pipeline, Rancho Cañada pipeline and lining of Rio Road trunkline
- Survey additional manhole inverts that are questionable to improve model
- Update Risk Assessment to reflect improvements to model
- Update Capital Improvement Program (CIP)

A decorative graphic on the left side of the slide, consisting of a network of white lines and circles on a blue background, resembling a circuit board or a neural network structure. The lines are vertical and horizontal, with some branching out to small circles.

# QUESTIONS