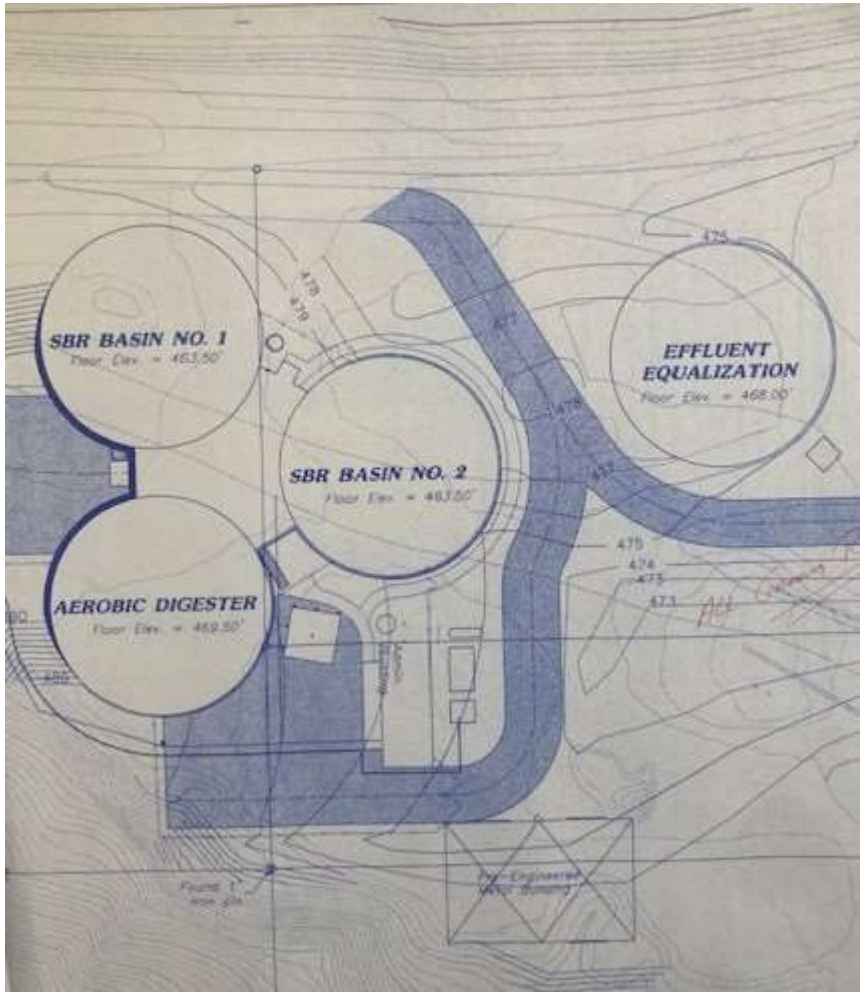
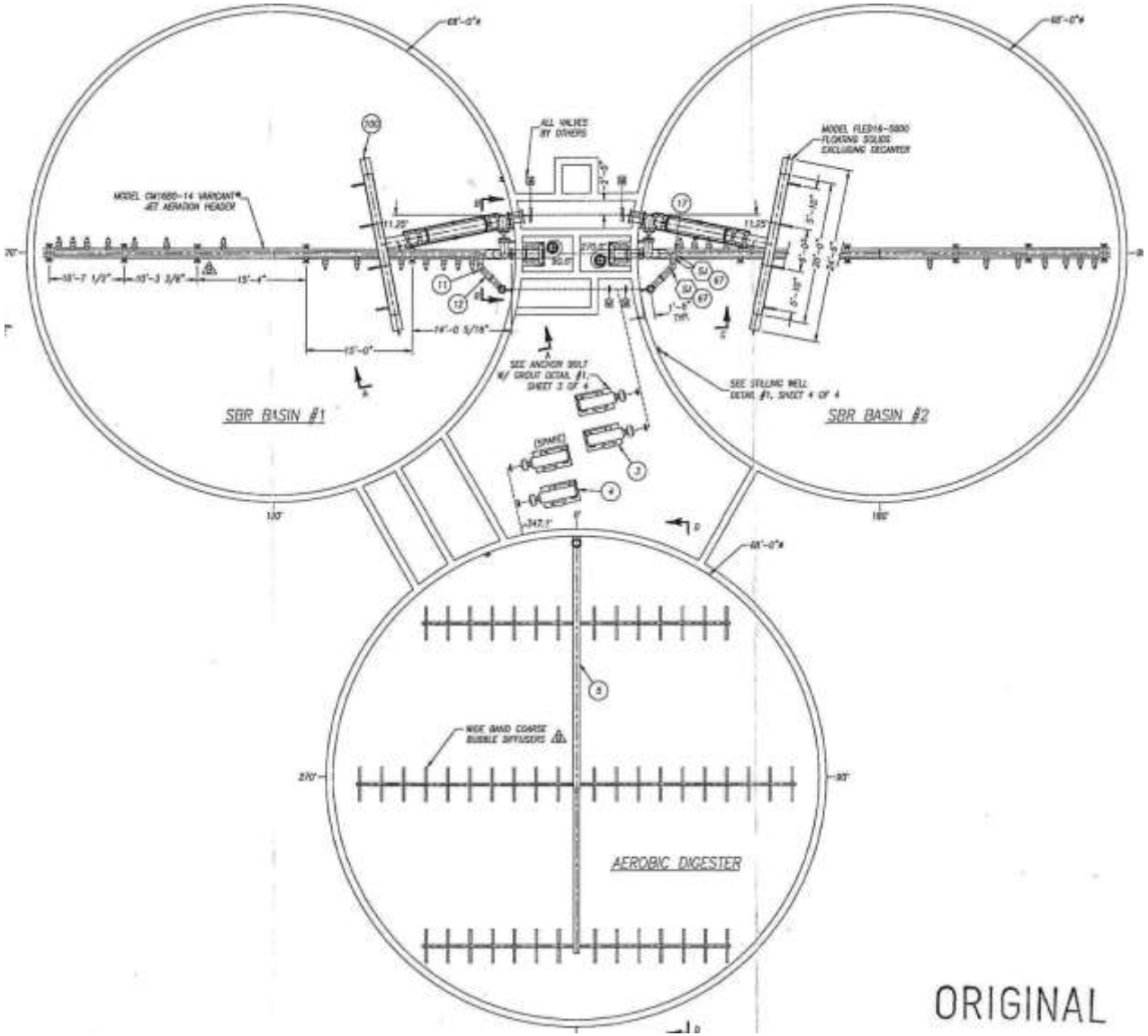
Needles Wastewater Treatment Plant (WWTP)

- The WWTP was constructed in 1997
- 1.2 Million Gallons per day of average daily flow treatment capacity
- Utilizes Sequencing Batch Reactor (SBR) technology
- Measured return/credit for the effluent is 97% with BOR
- The wastewater system has 4 lift-stations
  - Bazoobuth
  - River Road
  - K-Street
  - Jack Smith Park

WWTP – birds eye view





WWTP from the entry gate

Gravity line to the plant and headworks

SBR #1 in service

SBR #2 out of service in stand-by mode

WWTP from the headworks

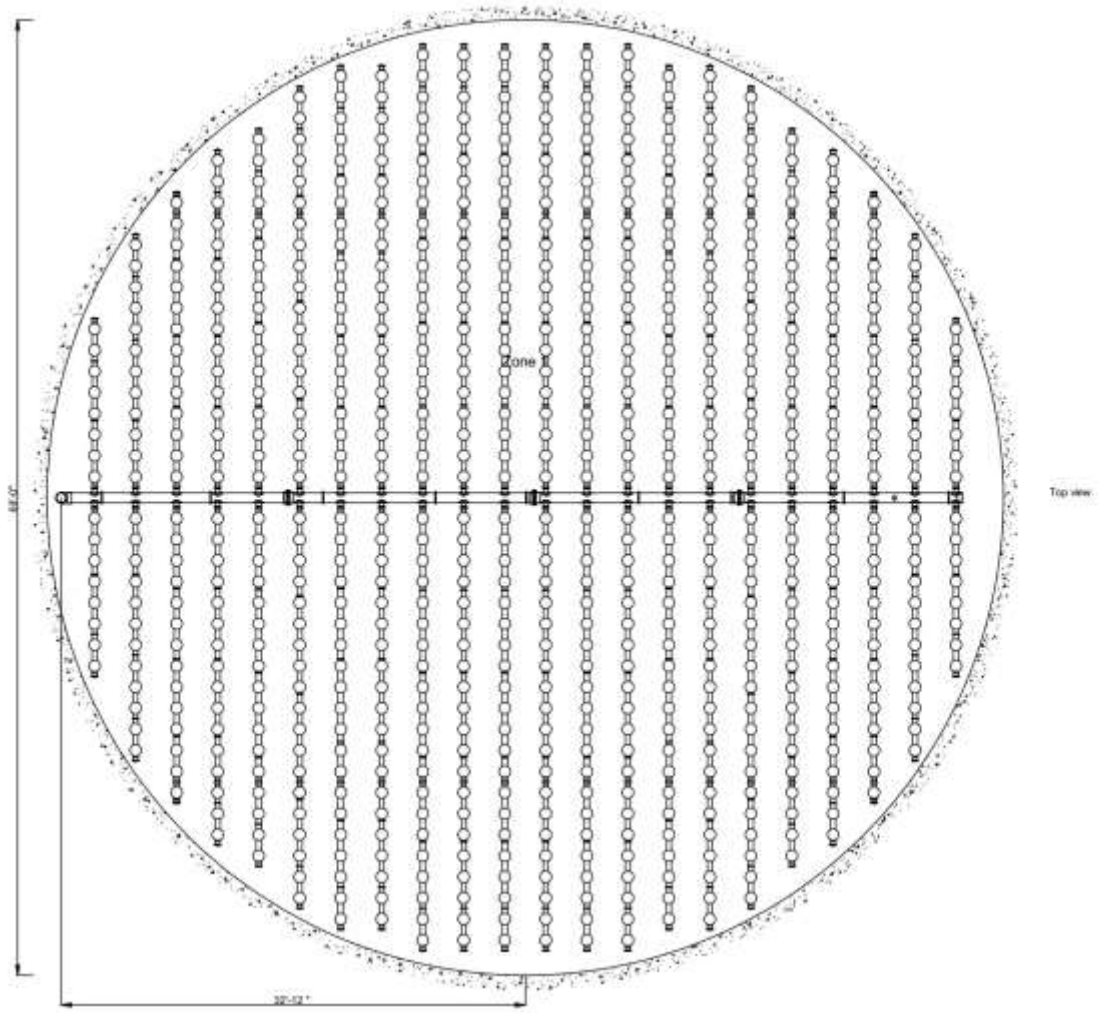
Digester in service and out of service for cleaning and inspection

WWTP Effluent equalization basin in service

Percolation pond #2 receiving effluent from the plant

Percolation pond #3 1 day after flow was diverted to pond #2

Potential future treatment technology in existing SBR tank



Needles Public Utility Authority
Wastewater

The City provides wastewater service to 1,900 customers. The City owned wastewater collection and treatment facilities include 19.25 miles of sewer line, 4 lift stations, and 3.6 miles of forced main.

The City's wastewater treatment plant is currently operating at about 0.500 MGD. It is operated under a valid order (permit) with the California Regional Water Quality Control Board.

The treatment plant is classified as a Grade 4 plant and is determined by the Regional Water Quality Board based upon the treatment process and technology as well as the design capacity of the facility. The plant is a US Filter Jet Tech Sequencing Batch Reactor (SBR).

The plant processes the incoming wastewater in batches with an automated computer control system that controls the flow distribution and operation of the various components of the treatment plant. The effluent, treated water, is discharged into percolation basins where the water naturally recharges the aquifer.

Annual Budget - $2,213,842