

# TEAM 23 - SB&P ENGINEERING



## MEET THE TEAM



**Taylor Patrick**

Project Manager/  
Geotechnical Engineer



**Derek Bucholtz**

Environmental Engineer/  
SWPPP



**Marcos Sena**

Construction Engineer



**Mia Banducci**

Hydraulic Engineer



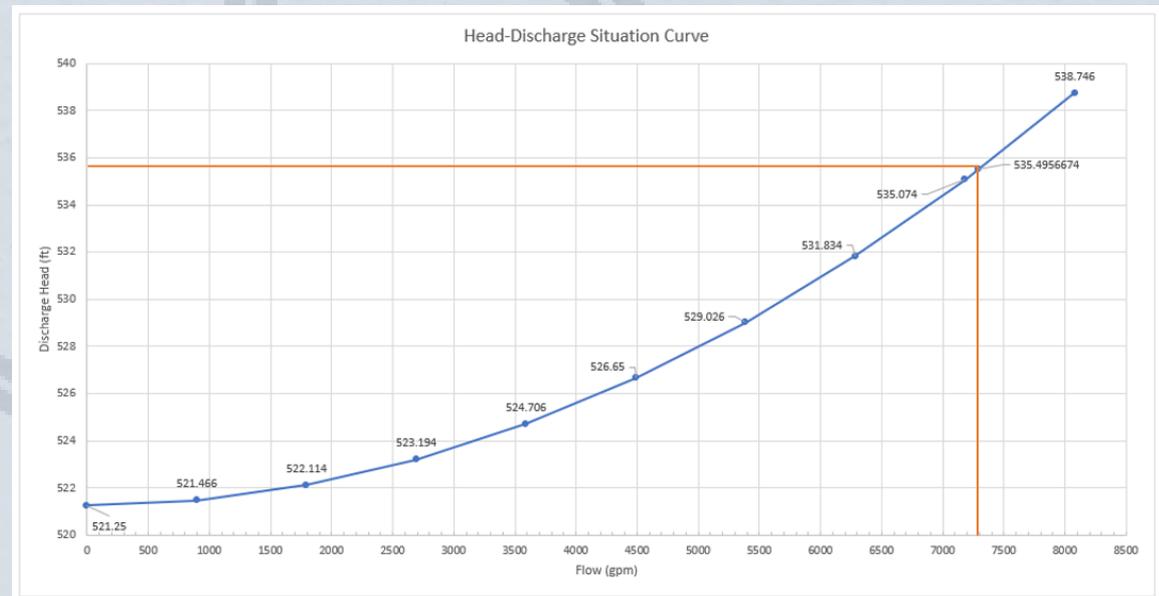
**Noble Schlueter**

Structural Engineer



## CITY OF ESCONDIDO MFRO BOOSTER PUMP STATION

To effectively transport water from the existing MFRO treatment center to the Hogback Reservoir, SB&P Engineering has designed a booster pump station and performed all necessary facility calculations including pump and pipe sizing. The project also includes designing the pump house and adjoining ADA public restrooms.



## MENTORS/SPONSORS

**Mark Filanc**

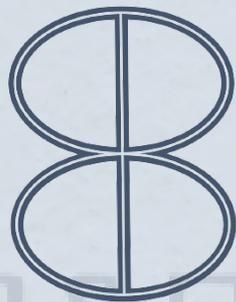
Course/Project Advisor

**Gary Silverman**

Project Advisor

**Thomas Zink**

Faculty Advisor/  
Hydraulics Professor



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A situation curve was constructed using Bernoulli's equation and the Head Loss equation. This unique curve is representative of the booster pump station by incorporating the pressure and head the pump must overcome in order to pump the water to Hogback Reservoir.