



THOMAS
ENGINEERING GROUP

THOMAS ENGINEERING GROUP
6300 NW 31ST AVENUE
FORT LAUDERDALE, FL 33309
P: 954-202-7000
F: 954-202-7070

October 29, 2025

City of Pompano Beach
Department of Development Services
Planning & Zoning Division
100 W. Atlantic Blvd.
Pompano Beach, FL 33060

RE: Costco Pompano Beach Relo-at The Pump
SE corner S. Powerline Road and Race Track Road
Gas Facility Stacking Narrative

To whom it may concern,

The proposed fueling facility will include 16 pumps arranged in a 4-by-4 configuration, providing 32 fueling positions for concurrent service to Costco members. Studies of Costco fuel facilities nationwide indicate an average fueling service rate of approximately 3.5 minutes per vehicle, meaning each fueling position can accommodate about 17 vehicles per hour during peak periods. At this rate, a facility with 32 fueling positions can achieve a service capacity of roughly 548 vehicles per hour. Costco fuel facilities of similar sizes (32 fueling positions) generally serve between 400-450 vehicles during the weekday PM and Saturday peak hours.

In addition to the 32 vehicles actively fueling, the site design accommodates queuing for approximately 56 additional vehicles within the fueling area. This configuration allows the facility to serve and store up to 88 vehicles at one time without interfering with Costco's internal site circulation. Given the high service capacity and the additional on-site queue storage, the fueling facility is expected to operate efficiently and without negatively impacting circulation in other areas of the site or traffic operations on external, public roadways.

Should you have any questions or require any additional information, please do not hesitate to contact me at (954) 202-7000 or mcigale@thomaseg.com.

Sincerely,

Matthew J. Cigale, P.E.
Senior Project Manager



CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS

WWW.THOMASENGINEERINGGROUP.COM