Collier County

COLLIER COUNTY GOVERNMENT
GROWTH MANAGEMENT DEPARTMENT
www.colliergov.net

2800 NORTH HORSESHOE DRIVE
NAPLES, FLORIDA 34104
(239) 252-2400 FAX: (239) 252-6358

STATEMENT OF UTILITY PROVISIONS
FOR *PUD REZONE* REQUEST

APPLICANT CONTACT INFORMATION

Name of Applicant(s): BCHD Partners III, LLC

Address: 2600 Golden Gate Parkway **City:** Naples **State:** FL **ZIP:** 34105

Telephone: 239-262-2600 **Cell:** _____ **Fax:** _____

E-Mail Address: DGenson@barroncollier.com

Address of Subject Property (If available): 3001 Santa Barbara Boulevard

City: Naples **State:** FL **ZIP:** 34116

PROPERTY INFORMATION

Section/Township/Range: 29 /49 /26

Lot: _____ **Block:** _____ **Subdivision:** _____

Metes & Bounds Description: See Boundary Survey

Plat Book: _____ **Page #:** _____ **Property I.D. Number:** 38170040001

TYPE OF SEWAGE DISPOSAL TO BE PROVIDED

Check applicable system:
a. County Utility System ✓
b. City Utility System ☐
c. Franchised Utility System ☐ Provide Name: _____
d. Package Treatment Plant ☐ (GPD Capacity): _____
e. Septic System ☐

TYPE OF WATER SERVICE TO BE PROVIDED

Check applicable system:
a. County Utility System ✓
b. City Utility System ☐
c. Franchised Utility System ☐ Provide Name: _____
d. Private System (Well) ☐

Total Population to be Served: 21.5 ksf shopping center or 6 ksf gas station and 6.75 ksf fast food

Peak and Average Daily Demands:
A. Water-Peak: 17 gpm Average Daily: 18,270 GPD
B. Sewer-Peak: 12 gpm Average Daily: 13,050 GPD

If proposing to be connected to Collier County Regional Water System, please provide the date service is expected to be required: 2020

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Narrative statement: Provide a brief and concise narrative statement and schematic drawing of sewage treatment process to be used as well as a specific statement regarding the method of affluent and sludge disposal. If percolation ponds are to be used, then percolation data and soil involved shall be provided from tests prepared and certified by a professional engineer.

Not applicable
_____

_____

Collier County Utility Dedication Statement: If the project is located within the service boundaries of Collier County's utility service system, a notarized statement shall be provided agreeing to dedicate the water distribution and sewage collection facilities within the project area to the Collier County Utilities. This shall occur upon completion of the construction of these facilities in accordance with all applicable County ordinances in effect at that time. This statement shall also include an agreement that the applicable system development charges and connection fees will be paid to the County Utilities Division prior to the issuance of building permits by the County. If applicable, the statement shall contain an agreement to dedicate the appropriate utility easements for serving the water and sewer systems.

_____
 See "Utility Dedication Statement" document included with Submittal 1.
_____

_____

Statement of Availability Capacity from other Providers: Unless waived or otherwise provided for at the pre-application meeting, if the project is to receive sewer or potable water services from any provider other than the County, a statement from that provider indicating adequate capacity to serve the project shall be provided.

	Potable Water		Sanitary Sewer	
	ADF (GPD)	Peak Day (gpm)	ADF* (GPD)	Peak Day (gpm)
Scenario 1 - Retail and Office	6,572	6.2	4,694	4.4
Scenario 2 - Gas and Fast Food	18,270	17.0	13,050	12.2

* Sanitary sewer ADF calculated as Water ADF divided by 1.4

Scenario 1 - Retail and Office

21.5 ksf Retail

Retail / Office Flows

Calculate assumed retail floor area and number of restaurant seats:

Assume 15% of shopping center as restaurant use:

Total Commercial Floor Area =	21,500 sf
Assumed Restaurant Area =	15%
Assumed Restaurant Floor Area =	3,225 sf

Assume Restaurant Density = 45 sf / restaurant seat

$$\text{Assumed Number of Restaurant Seats} = \frac{3,225 \text{ sf restaurant area}}{45 \text{ sf / restaurant seat}}$$

Assumed Number of Restaurant Seats = 72 restaurant seats

Calculate potable water demands from restaurant use:

$$\text{Restaurant Average Daily Flow} = 72 \text{ seats} \left| \frac{40 \text{ GPD Wastewater}}{\text{seat}} \right| \frac{1.4 \text{ GPD Water}}{\text{GPD WW}}$$

Restaurant Average Daily Flow = **4,013 GPD**

$$\text{Restaurant Peak Day Demand} = \frac{4,013 \text{ Gal}}{\text{Day}} \left| \frac{1 \text{ Day}}{1440 \text{ Minutes}} \right| 1.35 \text{ Peak Day Factor}$$

Restaurant Peak Day Demand = **3.8 gpm**

Calculate potable water demands from retail use:

$$\text{Retail Average Daily Flow} = 18,275 \text{ sf} \left| \frac{0.1 \text{ GPD Wastewater}}{\text{sf}} \right| \frac{1.4 \text{ GPD Water}}{\text{GPD WW}}$$

Retail Average Daily Flow =   **2,559** **GPD**

Retail Peak Day Demand =	2,559 Gal	1 Day	1.35 Peak Day Factor
	Day	1440 Minutes	

Retail Peak Day Demand =   **2.4 gpm**

Calculate average day potable water demands from shopping center use:

Restaurant Average Daily Flow =	4,013 GPD
Retail Average Daily Flow =	2,559 GPD
Shopping Center Average Daily Flow =	**6,572 GPD**

Calculate peak day potable water demands from shopping center use:

Restaurant Peak Day Demand =	3.8 gpm
Retail Peak Day Demand =	2.4 gpm
Shopping Center Average Daily Flow =	**6.2 gpm**

Summary

Proposed Land Use	Potable Water		Sanitary Sewer	
	ADF (GPD)	Peak Day (gpm)	ADF* (GPD)	Peak Day (gpm)
Shopping Center	6,572	6.2	4,694	4.4

* Sanitary sewer ADF calculated as Water ADF divided by 1.4

Scenario 2 - Gas and Fast Food

6 ksf gas station convenience store
6.75 ksf fast food restaurant

Gas Station Flows

Water closet demand for service station open greater than 16 hours per day

Gas Station WC Average Daily Flow =	3 water closets	325 GPD	1.4 GPD Water
		Water Closet	GPD WW

Gas Station WC Average Daily Flow =   1,365 GPD

Gas Station WC Peak Day Demand =	1,365 Gal	1 Day	1.35 Peak Day Factor
	Day	1440 Minutes	

Gas Station WC Peak Day Demand =   1.3 GPD

For carry out food service operations within gas station

Gas Station Store Average Daily Flow =	6,000 sf building area	50 GPD	1.4 GPD Water
		100 sf	GPD WW

Gas Station Store Average Daily Flow =   4,200 GPD

Gas Station Store Peak Day Demand =	4,200 Gal	1 Day	1.35 Peak Day Factor
	Day	1440 Minutes	

Gas Station Store Peak Day Demand =   3.9 GPD

Per food service employee within gas station

Per employee Average Daily Flow =	5 employees	15 GPD	1.4 GPD Water
		employee	GPD WW

Per Employee Average Daily Flow =   105 GPD

Per Employee Peak Day Demand =	105 Gal	1 Day	1.35 Peak Day Factor
	Day	1440 Minutes	

Per Employee Peak Day Demand = 0.1 gpm

Calculate average day potable water demands from gas station use:

Water Closet Average Daily Flow =	1,365 GPD
Convenience Store Average Daily Flow =	4,200 GPD
Per Employee Average Daily Flow =	105 GPD
Gas Station Average Daily Flow =	**5,670 GPD**

Calculate peak day potable water demands from gas station use:

Water Closet Peak Day Demand =	1.3 gpm
Convenience Store Peak Day Demand =	3.9 gpm
Per Employee Peak Day Demand =	0.1 gpm
Gas Station Peak Day Demand =	**5.2 gpm**

Fast Food Restaurant Flows

Assumed Number of Restaurant Seats =	6,750 sf restaurant area
	30 sf / restaurant seat

Assumed Number of Restaurant Seats = 225 restaurant seats

Calculate potable water demands from restaurant use:

Restaurant Average Daily Flow =	225 seats	40 GPD Wastewater	1.4 GPD Water
		seat	GPD WW

Restaurant Average Daily Flow = 12,600 GPD

Restaurant Peak Day Demand =	12,600 Gal	1 Day	1.35 Peak Day Factor
	Day	1440 Minutes	

Restaurant Peak Day Demand = **11.8 gpm**

Summary

Proposed Land Use	Potable Water		Sanitary Sewer	
	ADF (GPD)	Peak Day (gpm)	ADF* (GPD)	Peak Day (gpm)
Gas Station w/ Convenience Store	5,670	5.2	4,050	3.8
Fast Food Restaurant	12,600	11.8	9,000	8.4
Total for Scenario	**18,270**	**17.0**	**13,050**	**12.2**

* Sanitary sewer ADF calculated as Water ADF divided by 1.4