

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 II, LLC			
Name of Applicant(s):	515, 226		
	city: Naples State: FL ZIP: 34105		
Telephone: <u>239-262-2600</u> Ce	ll: Fax:		
E-Mail Address: DGenson@barronc			
Address of Subject Property (If available	e): 8810 and 9020 Immokalee Rd.		
City: Naples State: FL			
City: 144pico State: 12	ZIP:		
PR	OPERTY INFORMATION		
Section/Township/Range: 26 /48	,26		
Section/Township/Range://	<u> </u>		
Lot: Block: Subdivision:			
Metes & Bounds Description: See Ex	xhibit 2-LegalDescription		
Plat Book: Page #: Propert	y I.D. Number: 00192360001 and 00192920001		
TYPE OF SEW	/AGE 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 W	ATER 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: See attached calculations			
Peak and Average Daily Demands:			
A. Water-Peak: ²¹⁶ gpm	Average Daily: 238,945 GPD		
B. Sewer-Peak: 160 gpm	Average Daily: 170,675 GPD		
	r 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.

Please reference attached sheets for calculation of average daily flow and peak day flow. Flows have been calculated for

the mix of development uses included in the traffic analysis.

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.

Attached.

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.

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Summary

Proposed Land Use	Potable Water		Sanitary Sewer	
	ADF	Peak Day	ADF*	Peak Day
	(GPD)	(gpm)	(GPD)	(gpm)
Residential	140,000	131.3	100,000	93.8
Hotel	14,000	4.7	10,000	9.4
Shopping Center	38,208	35.8	27,292	25.6
Gas Station w/ Convenience Store	5,670	5.2	4,050	3.8
Sit Down Restaurant	18,667	17.5	13,333	12.5
Fast Food Restaurant	22,400	21.0	16,000	15.0
Total for Scenario	238,945	215.5	170,675	160.0

^{*} Sanitary sewer ADF calculated as Water ADF divided by 1.4

- **400** Dwelling Units
- 140 Room Hotel
- 43 ksf Medical Office
- 125 ksf Shopping Center
 - 6 ksf gas station convenience store
- 15 ksf sit down restaurant (high turnover)
- 12 ksf fast food restaurant

Calculate Peak Water Demand from Residential Uses

Residential Average Daily Flow =	400 Units	350 GPD	
		Unit	

Residential Average Daily Flow = 140,000 GPD

Residential Peak Day Demand =	140,000 Gal	1 Day	1.35 Peak Day Factor
	Day	1440 Minutes	

Residential Peak Day Demand = 131.3 gpm

Calculate Peak Water Demand from Non-Residential Uses

Hotel Use Flows

Hotel Average Daily Flow =	140 Rooms	100 GPD
		Room

Hotel Average Daily Flow = 14,000 GPD

Hotel Peak Day Demand = 13.1 gpm

Medical Office Flows

Estimate number of practicioners and employees

Number of Practicioners =	43,000 sf office area	1 practicioner	
_		3,000 sf	
Number of Practicioners =	14.3333333		
Number of Employees =	14 Practicioners	6 employees 1 practicioner	
Number of Employees =	86		
Per Practicioner Average Daily Flow =	14 Practicioners	250 GPD Wastewater	1.4 GPD Water
		1 Practicioner	GPD WW
Per Practicioner Average Daily Flow =	5,017 GPD		
Per Employee Average Daily Flow =	86 Employees	15 GPD Wastewater	1.4 GPD Water
		1 Employee	GPD WW
Per Employee Average Daily Flow =	1,806 GPD		
Calculate average day potable water demands from	n medical office use:		
Per Practicioner Average Daily Flow =	5,017 GPD		
Per Employee Average Daily Flow =	1,806 GPD		
Medical Office Average Daily Flow =	6,823 GPD		
Medical Office Peak Day Demand =	5,017 Gal	1 Day	1.35 Peak Day Factor
	Day	1440 Minutes	
Medical Office Peak Day Demand =	4.7 gpm		

Shopping Center Flows

Calculate assumed retail floor area and number of restaurant seats:

Assume 15% of shopping center as restaurant use:

Assume Restaurant Density = 45 sf / restaurant seat

Assumed Number of Restaurant Seats = 18,750 sf restaurant area 45 sf / restaurant seat

Assumed Number of Restaurant Seats = 417 restaurant seats

Calculate potable water demands from restaurant use:

Restaurant Average Daily Flow =	417 seats	40 GPD Wastewater	1.4 GPD Water
		seat	GPD WW
Restaurant Average Daily Flow =	23,333 GPD		
Restaurant Peak Day Demand =	23,333 Gal	1 Day	1.35 Peak Day Factor
	Day	1440 Minutes	

Restaurant Peak Day Demand = 21.9 gpm

Calculate potable water demands from retail use:

Retail Average Daily Flow =	106,250 sf	0.1 GPD Wastewater	1.4 GPD Water
		sf	GPD WW

Retail Average Daily Flow = 14,875 GPD

Retail Peak Day Demand =	14,875 Gal	1 Day	1.35 Peak Day Factor
	Day	1440 Minutes	

Retail Peak Day Demand = 13.9 gpm

Calculate average day potable water demands from shopping center use:

Restaurant Average Daily Flow = 23,333 GPD

Retail Average Daily Flow = 14,875 GPD

Shopping Center Average Daily Flow = 38,208 GPD

Calculate peak day potable water demands from shopping center use:

Restaurant Peak Day Demand = 21.9 gpm
Retail Peak Day Demand = 13.9 gpm

Shopping Center Average Daily Flow = 35.8 gpm

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		
das Station Store Feak Day Demand -	3.9 GFD		
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		
Ter Employee Average Daily How	103 01 2		
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 g	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		

Sit Down Restaurant Flows

Assume Restaurant Density = 45 sf / restaurant seat

Assumed Number of Restaurant Seats = 15,000 sf restaurant area 45 sf / restaurant seat

Assumed Number of Restaurant Seats = 333 restaurant seats

Calculate potable water demands from restaurant use:

Restaurant Average Daily Flow =	333 seats	40 GPD Wastewater	1.4 GPD Water
		seat	GPD WW

Restaurant Average Daily Flow = 18,667 GPD

Restaurant Peak Day Demand = 17.5 gpm

Fast Food Restaurant Flows

Assumed Number of Restaurant Seats = 12,000 sf restaurant area 30 sf / restaurant seat

Assumed Number of Restaurant Seats = 400 restaurant seats

Calculate potable water demands from restaurant use:

Restaurant Average Daily Flow =	400 seats	40 GPD Wastewater	1.4 GPD Water
_		seat	GPD WW

Restaurant Average Daily Flow = 22,400 GPD

Restaurant Peak Day Demand = 22,400 Gal 1 Day 1.35 Peak Day Factor

Day 1440 Minutes

Restaurant Peak Day Demand = 21.0 gpm