



CAPACITY ANALYSIS

I. Site Data:

	Existing Use	Future Land Use	Zoning
North			
South			
East			
West			

	Future Land Use	Zoning Classification	Maximum Intensity Residential: Dwelling Units per Acre Other: Square Footage	Total Acreage	Flood Zone
Current					
**Proposed					N/A

II. Public Facilities Information:

A. Potable Water:	
Average Use	Residential: 100 gallons per day per person (du x 2.6= persons x 100 gpd = demand) Other: 0.125 gallons per day per square foot
Demand Analysis	Maximum
Current Zoning/FLU	Total gallons per day 8,923
**Proposed Zoning/FLU	Total gallons per day 10,084
**Change in Demand	Total gallons per day 1161

B. Wastewater:	
Average Use	Residential: 100 gallons per day per person (du x 2.6= persons x 100 gpd = demand) Other: 0.1 gallons per day per square foot
Demand Analysis	Maximum
Current Zoning/FLU	Total gallons per day 7,138
**Proposed Zoning/FLU	Total gallons per day 8,067
**Change in Demand	Total gallons per day 929

C. Parks and Recreation (Residential Classifications Only): (Du x 2.6 = persons + 44,227 = population /LOS)				
Park Type	LOS	Existing Population Park Demand	Proposed Population Park Demand	Change in Demand
Regional	20 acres per 1,000 people			
Urban District	5 acres per 1,000 people			
Community	2.5 acres per 1,000 people			
Neighborhood	1.36 acres per 1,000 people			

D. Public Schools (Residential Classifications Only): Single Family: (du x 0.405 = students/70% K-8/30% High) Multi-family: (du x 0.207 = students/70% K-8/30% High)		
	K-8	High
School Name		
City		
Distance		
Current Zoning/FLU	Enrollment	
**Proposed Zoning/FLU	Enrollment	
**Change in Demand		

E. Solid Waste: Residential (2 yard serves 15 units, 4 yard serves 30 units, 6 yard serves 45 units, 8 yard serves 60 units)	
Demand Analysis	Maximum
Current Zoning/FLU	1 existing dumpster
**Proposed Zoning/FLU	1 proposed dumpster (to be relocated)
*Change in Demand	n/a

F. Stormwater: Potential increase in volume discharged due to increased impervious coverage, reduced groundwater seepage or loss of surface water storage impacting Adopted LOS of 25-year 3-day storm Pre vs. Post Runoff (Storm sewers to convey 5 year- 1 day storm event; Canals to convey 3 year – 1 day storm event)
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Impact	
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III. Transportation Analysis: Complete ITE Trip Generation Form (Attached)

G. Transportation Analysis: Complete ITE Trip Generation Data Form		
Most recent ITE Code for use; HCM Roadway Capacity		
	AADT	AM/PM Peak Hour Trips
Demand Analysis	Maximum	Maximum
Current Zoning/FLU	170	6 AM / 19 PM
**Proposed Zoning/FLU	212	10 AM / 26 PM
*Change in Demand	Trips 42	Trips 4 AM / 7 PM
Impact to Capacity	Anticipated negligible impact on existing capacity, in line with	

previous study by Littlejohn in 2015

IV. Project Description

PHASING
Is this project (phase) part of a larger project? <input type="checkbox"/> Yes <input type="checkbox"/> No
If yes, enumerate each phase, the number of units or square footage in each phase and beginning/completion date.
Total Project: Residential Units: Single Family: Multifamily:
Non-residential (square footage):
Mixed-use (describe use):
(If this is a single phase project, name it Phase I – Total)

RESIDENTIAL DATA					
Type	Phase	Number of Units	Acres	Expected beginning date	Expected completion date
Single-family, detached					
Single-family, attached					
Multi-family					
Other (specify)					

NON-RESIDENTIAL DATA					
Type(s) specify	Phase	Square footage	Acres	Expecting beginning date	Expected completion date

A. Indicate whether the proposed project will be eliminating any existing recreational facilities. If yes, detail the number and type being eliminated. Yes No

- B. 1. Does this application involve demolition or re-use of any structure(s)? Yes No
 If yes, what is the size of the structure(s) to be demolished or re-used? _____
2. What is the current use of the structure to be demolished or re-used? _____
3. Are you claiming trip credits for the demolition or re-use of a structure(s) at the site? Yes No
 If yes, provide estimates of credits for each previous use at the site. (Attach sheet with calculations)

C. Exemptions Requested:

** Complete section if requesting a change in zoning, future land use, or expanding

Lawnwood Psychiatric Treatment Center Addition
Trip Generation Summary & Traffic Statement
Crunk Engineering LLC
11/30/2017

Project Scope - Addition of 12 beds, by adding 12,000 sf of building area

Existing Conditions - 74 beds, 71,380 sf of building area

Proposed Conditions - 86 beds, 83,380 sf of building area

Calculations Information

ITE Manual, 9th Edition using Nursing Home (620)

$$\text{AADT} = 3.49 * (\text{No. of Beds}) - 89.09$$

$$\text{AM Peak} = 0.29 * (\text{No. of Beds}) - 15.57$$

$$\text{PM Peak} = 0.56 * (\text{No. of Beds}) - 22.53$$

Calculation Results

Existing Conditions

AADT	170
AM Peak	6
PM Peak	19

Proposed Conditions

AADT	212
AM Peak	10
PM Peak	26

Difference

AADT	42
AM Peak	4
PM Peak	7

The proposed project is anticipated to have a negligible impact on the surrounding roadway network. This fact is also based on the conclusions drawn by the full traffic impact study prepared by Littlejohn in 2015.