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SPRING RANCH VILLAS
SPRING ROAD AT GORDON ROAD
OUT-OF-CITY UTILITY SERVICE REQUEST
WATER AND WASTEWATER FLOW CALCULATIONS

April 30, 2018

WATER

For 27 Single-Family Residential Lots

Average Day Demand = $0.24 \text{ GPM/SUE} = 6.5 \text{ GPM}$

Maximum Day Demand = $0.70 \text{ GPM/SUE} = 18.9 \text{ GPM}$

Peak Hour Demand = $1.2 \text{ GPM/SUE} = 32.4 \text{ GPM}$

Source: COSM Water Design Criteria

WASTEWATER

For 27 Single-Family Residential Lots

Average Daily Flow = $225 \text{ GPD/SUE} = 6,075 \text{ GPD} = 4.22 \text{ GPM}$

Peaking Factor = 3.31

Peak Dry Weather Flow = $20,108 \text{ GPD} = 13.96 \text{ GPM}$

I/I = $750 \text{ GPD/Acre} \times 4.851 \text{ Acres} = 3,638 \text{ GPD}$

Peak Wet Weather Flow = $23,746 \text{ GPD} = 16.5 \text{ GPM}$

Source: COSM Wastewater Design Guide 2015

