

“E”

# Sewer Feasibility Report

Gateway 24 Use Permit P24-00134-UP  
Planning Commission Hearing Date (August 6, 2025)

## MEMORANDUM

**To:** Shea Rhoda  
**From:** Paul Schneider, P.E.  
**Date:** 03/14/2025  
**Re:** Napa Gateway Sewer Feasibility Report



### I. Introduction

Our office has been retained to document the design and operational parameters for the proposed wastewater disposal system for the Gateway Building. The facility is proposing to allow for wine production during peak season which will generate process waste water.

### II. Employees, Visitors, and Wine Production

The facility does not anticipate visitors as there is no retail operation planned. Wastewater generation is based on the County of Napa use table of 15 gpd per employee. The maximum number of employees onsite is 15, however this waste does not enter the hold and haul system. The facility is proposing to produce 250,000 gallons of wine per year, which according to Exhibit A generates 450,000 gallons of process waste water at peak daily flow of 8,250 gallons.

### III. Proposed Hold and Haul System

The project proposes to utilize a hold and haul system to dispose of the process wastewater. The system will have the following design elements:

- Odor control and venting
- High water alarm set to 70% of the full volume
- 7 day peak flow capacity
- Tanks will be below grade Xerxes tanks
- Manway access will be elevated 2" minimum above grade to prevent intake of water and will be H20 traffic rated

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The anticipated total volume required is 8,250 gallons per day (gpd) for 7 days shown in Table A below:

Table B: Available Capacity (gpd)		
Process Waste (gpd)	Days	Total Volume (gal)
8,250	7	57,750

Per Exhibit B the project proposes to install 60,000 gallons of waste storage capacity.

**IV. Conclusion**

The projects hold and haul system has been designed per the County requirements and is a viable solution to hold up to 7 days of peak waste flow before operations have to cease.

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## Exhibit A: Industrial Water Demand Estimate

Converter	Tons/Cases/Gallons of Wine (input blue number)	Cases	Tons	Gallons of Finished Wine
	ENTER			
Tons	1	63		150
Cases	22575	-	358.3	53729
Gallon finished Wine	250,000	105042	1667	-
Total WW/year	3650000	383403	6086	912500

105042	Cases/Year
63	Cases/Ton
2.38	Gal of Wine/Case
4	Gal of PW/Wine Ratio
45	% of Annual PW Used During Vintage
60	Days of Vintage
305	Days/Year
1.1	SF for Peak/Max Daily Flow

250000	Total Finished Wine/Year, in Gallons
1000000	Total PW/Year, in Gallons
450000	Total Volume of Wastewater Generated During Vintage, in Gallons
7500	Average Daily Wastewater Production During Vintage, in Gallons
1803	Average Daily Wastewater Production During Rest of the Year, in Gallons
8250	Peak Daily Flow During Vintage, in Gallons
16500	Recommended EQ Capacity (2-Day Minimum), in Gallons

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**Exhibit B: Hold and Haul Schematic**

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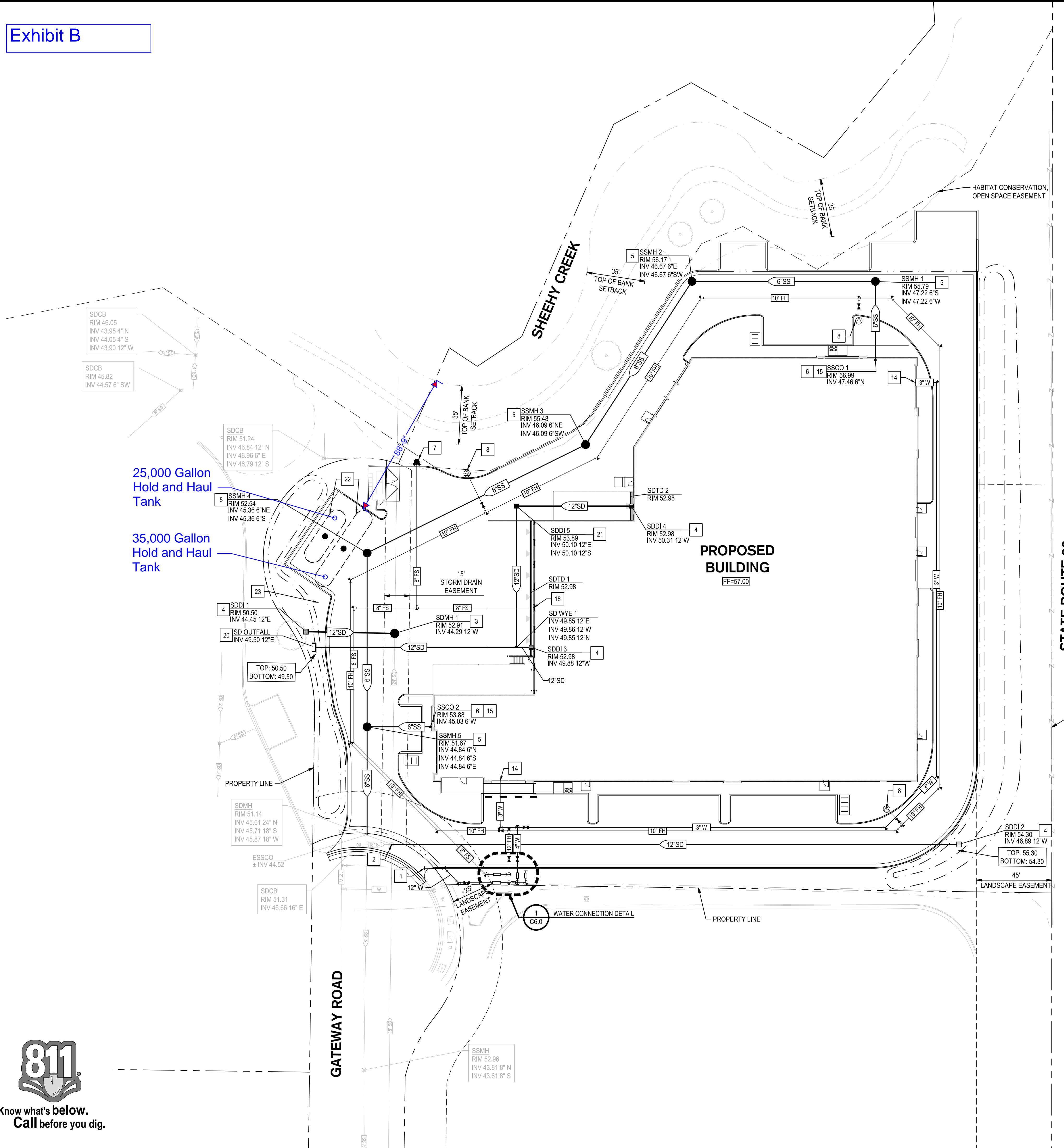
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## Exhibit B



## **UTILITY LEGEND**

PROPOSED MAINTENANCE HOLE  
PROPOSED STORM CATCH BASIN  
PROPOSED STORM DRAIN INLET  
PROPOSED AREA DRAIN  
PROPOSED SANITARY SEWER CLEANOUT  
GATE VALVE  
PROPOSED FIRE DEPARTMENT CONNECTION  
PROPOSED FIRE HYDRANT  
PROPOSED SANITARY SEWER LINE  
PROPOSED STORM DRAIN LINE  
PROPOSED FIRE SERVICE LINE  
EXISTING STORM DRAIN LINE  
EXISTING SANITARY SEWER LINE  
EXISTING GAS LINE  
EXISTING WATER LINE  
EXISTING ELECTRICAL CONDUIT

## **UTILITY NOTES**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY OF THE EXISTING UTILITIES, INCLUDING, BUT NOT LIMITED TO UTILITY BOXES, THAT ARE FOUND TO BE BROKEN, CRACKED, OR OTHERWISE DAMAGED.
2. ALL UTILITY BOXES AND MAINTENANCE HOLES SHALL BE PROTECTED AND ADJUSTED TO FINISH GRADE, UNLESS OTHERWISE NOTED.

## **UTILITY KEY NOTES**

1	CONNECT TO EXISTING WATER MAIN	<ul style="list-style-type: none"><li>■ LANDSCAPE ARCHITECTURE</li><li>■ SURVEYING</li><li>■ PLANNING</li><li>■ ATHLETIC FACILITY DESIGN</li></ul>
2	CONNECT TO EXISTING STORM DRAIN MANHOLE	
3	INSTALL STORM DRAIN MANHOLE	
4	INSTALL STORM DRAIN DRAIN INLET	

## REVISIONS

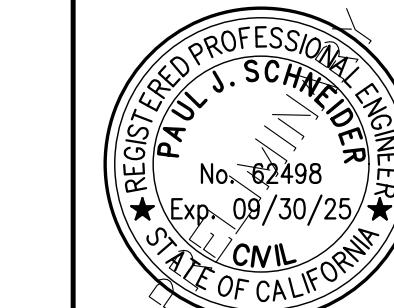
No.	Date	Description
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1. **What is the primary purpose of the study?** (Please check one box)

PROJECT

# NAPA GATEWAY ROAD

GATEWAY ROAD  
NAPA, CALIFORNIA



CLIFFET 1

## UTILITY PLAN

Proj Mgr	F
Drawn by	K
Date	03/14/20
Job No.	233
<b>SHEET:</b>	
<b>C6.0</b>	
--OF--	



**Know what's below.  
Call before you dig.**