

# County of San Diego

# **Department of Environmental Health and Quality**

Land and Water Quality
5500 Overland Ave., Suite 210, San Diego, CA 92123 / (858) 565-5173
www.sdcdehq.org

# ONSITE WASTEWATER TREATMENT SYSTEM LAYOUT APPROVAL EXPIRATION DATE: 9/4/2026

Owner: Ramos Jose A&Nenetzy Site: 2396 CAPE HORN, JULIAN

Address: 25145 E Old Julian Hwy\*Ramona Ca\ Ramona, CA 92065 Parcel: 291-110-24-00

Certification: PERC TEST

Phone: Record ID: DEH2024-LOWTS-018759

This project is **APPROVED** for the following:

Commercial / Residential: Residential Gallons / Day: 450

Number of Bedrooms: 3

#### THIS IS NOT AN ONSITE WASTEWATER TREATMENT SYSTEM PERMIT

You have until 9/4/2026 to obtain a septic permit. However, a site recheck may be required at any time to determine if site conditions have changed. Refer to the County of San Diego, Department of Environmental Health and Quality, Local Agency Management Program for Onsite Wastewater Treatment Systems for all applicable setbacks and standard conditions of approval.

#### **ONSITE WASTEWATER SYSTEM REQUIREMENTS**

Primary Septic Tank (in gallons): 1000

Pump Tank (in gallons): 1000 Surge Tank (in gallons): 300

Soil Disposal System								
	System Type	Length	Width	Depth	Cap Depth	Spacing	Depth of Medium	# of Pods
Primary Dwelling	Leach Lines	500	1.50	3		10	1	

#### CONDITIONS TO BE COMPLETED PRIOR TO THE ISSUANCE OF A SEPTIC PERMIT

Potable Water Source: Public Water Supply Water District: Julian Municipal Water District

DEHQ Grading Inspection: Waived (9/4/2024) DEHQ Building Plan Review:

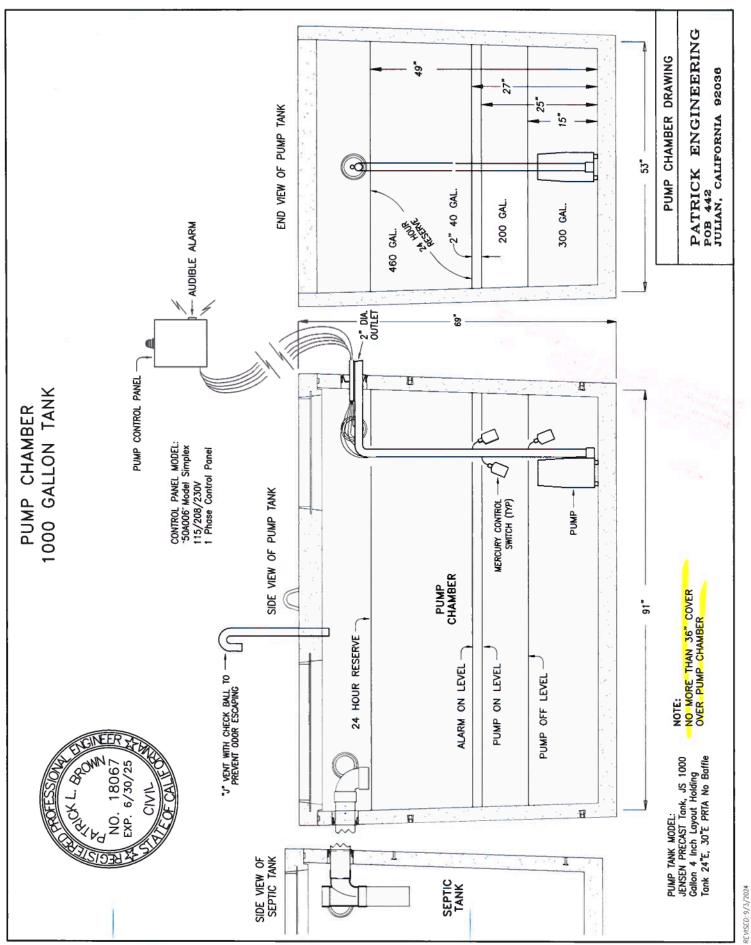
**COMMENTS:** LAYOUT TIME EXTENSION:

PROPOSED 3-BR SFD.

INSTALL 1000 GALLON SEPTIC TANK, 1000 GALLON PUMP CHAMBER, AND 300 GALLON SURGE TANK + 500' LEACH LINES. POTABLE WATER BY JULIAN COMMUNITY SERVICES DISTRICT.

SEPTIC APPROVAL WILL BE VOIDED IF GRADING EXCEEDS WHAT IS SHOWN ON THE LAYOUT.

Approved By: Cara Schiksnis Date: 9/4/2024



### PUMP SIZE CALCULATIONS

#### FIND TOTAL DYNAMIC HEAD

#### FRICTION LOSS IN PIPE

$$f = .2083$$
  $\begin{pmatrix} 100 \\ C \end{pmatrix}$  1.85  $\frac{q}{d}$  4.8655



d = INSIDE DIAMETER OF PIPE IN INCHES

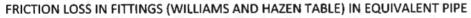
q = FLOW IN GALLONS PER MINUTE

C = CONSTANT ACCOUNTING FOR SURFACE ROUGHNESS

d = 2 INCHES

q = GALLONS PER MINUTE

C = 130 (WILLIAMS AND HAZEN TABLES)



3.99 LINEAL FEET PER FITTING (90° ELL)

3.99 x 7 ELLS = 28 LF IN EQUIVALENT PIPE

L = LENGTH OF RUN OF 2" P.V.C. PIPE = 180 ft. (PIPE RUN) + 28 If (FITTINGS) = 208 ft. OF 2" PIPE

#### **EXAMPLE SOLUTION AT 10 GPM**

$$f = .2083$$
  $\left(\begin{array}{c} 100 \\ C \end{array}\right)^{1.85} \left(\begin{array}{c} 10 \\ \hline 2 \end{array}\right)^{1.85}$ 

f = .128 X 2.43 = .31 FEET OF EQUIVALENT PIPE

f = .31 PER 100'

208 ft OF PIPE 208 / 100 = 2.08 FRICTION HEAD = .31 x 2.08 = 0.64 FE

SYSTEM CURVE CALCULATIONS

TOTAL DYNAMIC HEAD (FT)

37.29

38.98

41.58

45.04

49.33

54.44 60.31

STATIC HEAD = 36.65 FEET

TDH = 36.65 + 0.64 = 37.29

TDH = 37.29 FEET

Q (GPM)

10

20

30

40

50

60

70

SUMP PUMP:

**AURORA/HYDROMATIC MODEL SKHD150** 

230 VOLT

12 AMPS

3450 R.P.M.

3/4 IN. MAX SOLID DIA. SOLIDS CAPACITY

1 1/2" NPT DISCHARGE

MERCURY CONTROL SWITCHS FOR

LIQUID LEVEL CONTROL AND ALARM

SUPPLIER: BARRETT ENGINEERED PUMPS

619-232-3029

SEE ATTACHED PUMP PERFORMANCE DATA





# **ENGINEERING DETAILS - SKHD150**

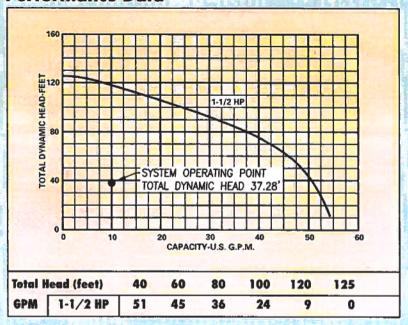
# **Pump Characteristics**

Pump/Motor Unit	Submersible								
Manual Models	M2	M6	M3	M4	M5				
Horsepower	1-1/2								
Full Load Amps	12.0 6.1 5.7 2.9 2								
Motor Type	Copocitor Start		Three	-Phase					
R.P.M.			3450						
Phase Ø	1			3					
Voltage	230	200	230	460	575				
Hertz	60								
Operation	Intermittent								
Temperature		140	)°F Amb	ient					
NEMA Design		-	В		Pile In				
Insulation			Class B						
Discharge Size		1-	1/2″ N	IPT					
Solids Handling			3/4"						
Unit Weight			75 lbs.						
Power Cord	16/3, STWA, 1a, 230V = 20' std. 16/4, STWA, 1a, 230V = 20' std. (S.F. 18/5, STWA, 3a, 200V, 230V, 460V, or 575V = 20' std. (S.F.)								

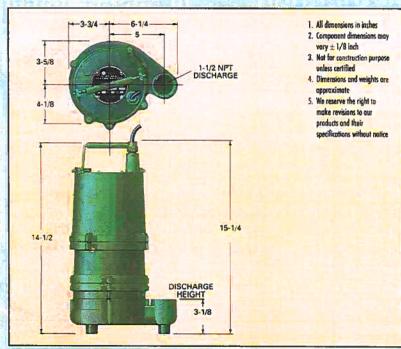
# Materials of Construction

vidici idis	or construction
Handle	Steel
Lubricating Oil	Dielectric Oil
Motor Housing	Cast Iron
Pump Casing	Cast Iron
Shaft	Stainless Steel
Mechanical Shaft Seal	Seal Faces: Carbon/Ceramic Seal Body: Brass Spring: Stainless Steel Bellows: Buna-N
Impeller	Thermoplastic
Upper Bearing	Brass Sleeve Bearing
Lower Bearing	Single Row Ball Bearing
Fasteners	Stainless Steel

## **Performance Data**

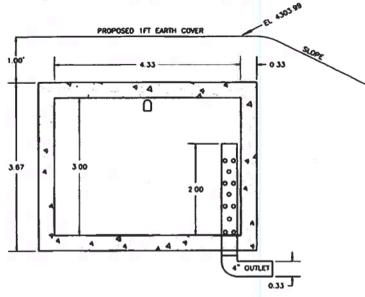


## **Dimensional Data**

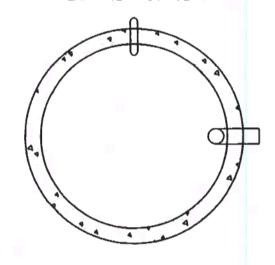


AURORA/HYDROMATIC Pumps, Inc. 1840 Baney Road, Ashland, Ohio 44805 (419) 289-3042

# ELEVATION VIEW-SURGE TANK



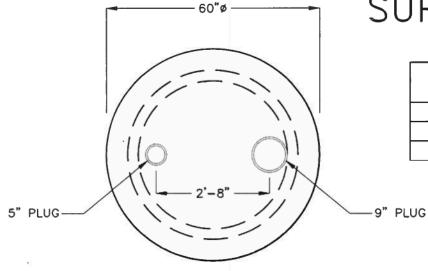
## PLAN VIEW-SURGE TANK



SURGE TANK VOLUME VOLUME=3.14 X R<sup>2</sup> X H 2.17 X 2.17 X 3.14= 14.79 sq. ft. 3 X 14.79= 44.37 cu. ft. 1 cu. ft.= 7.48 gal. 44.37 X 7.48= 332 gal.

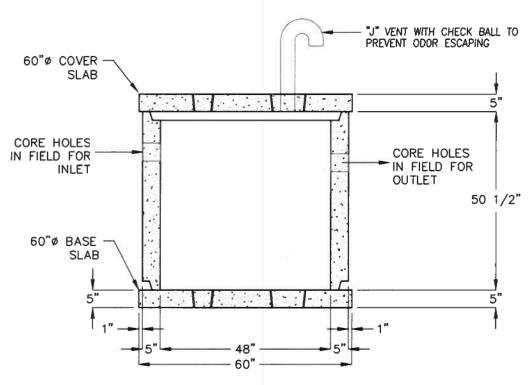


# CONCRETE SURGE TANK



GALLON CAPACITY								
FROM INSIDE FLOOR								
18"	150	gal						
24"	200	gal						
30"	250	gal						

TOP & BASE SLAB VIEW



FOR COMPLETE DESIGN AND PRODUCT INFORMATION, CONTACT JENSEN PRECAST. SECTION VIEW

NOTE: SEALING OF JOINTS WILL BE THE RESPONSIBILITY OF OTHERS

10/01/03 SURGETANK\_W.dwg © 2023 Jensen Precast





# County of San Diego, Planning & Development Services PROJECT FACILITY AVAILABILITY - WATER ZONING DIVISION

Please type or use po		Y-100-		
Stephen Frailey	619-533-7932	ORG		W
Owner's Name	Phone -	ACCT		VV
1444 Cesar E. Chavey Parkway		ACT		
Owner's Mailing Address	Street	TASK		
San Diego	CA 92036	DATE		AMT \$
City	State Zip			ASHIER'S USE ONLY
SECTION 1. PROJECT DESCRIPTION		TO BE	COMPLET	TED BY APPLICANT
☐ Minor Subdivision (TPM) ☐ Certificate	an or Specific Plan Amendment of Compliance:		Assessor's (Add ex	s Parcel Number(s) ktra if necessary)
Boundary Adjustment Rezone (Reclassification) from Major Use Permit (MUP), purpose:		291-110-2	4-00	291-110-24-00
Time ExtensionCase No Expired MapCase No.		291-110-2	4-00	291-110-24-00
Other Site PLan     Residential Total number of dwelling	units 1	291-110-2	4-00	291-110-24-00
Commercial Gross floor area Industrial Gross floor area		291-110-2	4-00	291-110-24-00
C. Total Project screage 125 Total number of	-flata 1	Thomas Gu	ide Page	1136 Grid B-7
	_	2408		Cape Horn Avenue
<ul> <li>Is the project proposing the use of groundwater?</li> <li>Is the project proposing the use of reclaimed water</li> </ul>	Yes II No	Project address Julian		Street 92036
745 741		Community Pla	anning Area/	Subregion Zip
Owner/Applicant agrees to pay all necessary of	onstruction costs, dedicate all d	strict required eas	ements to ex	dend service to the project and
COMPLE	TE ALL CONDITIONS REQUIR	ED BY THE DIST	RICT.	
Applicant's Signature: <u>Stephen Fro</u> Address: 1444 Cesar E. Chavez Parkway, S	riley	Oat	e: 6/29/20	22
(On completion of above, presen		water protection	to complete	Section 2 below.)
SECTION 2: FACILITY AVAILABILITY		TO BE COM	APLETED	BY DISTRICT
District Name-Juna - Communing Same	Dishaver Service	e area		
A. Project is in the district				
Project is not in the district but is within its Sp Project is not in the district and is not within its	a Sobara of Influence boundary			
☐ The project is not located entirely within the d	istrict and a potential boundary I	ssue exists with th	10	District
Facilities to serve the project    ARE    Al capital facility plans of the district    Explain in:	RE NOT reasonably expected to space below or on attached	be available with Number of		years based on the
Project will not be served for the following rea				
C. District conditions are attached. Number of postrict has specific water reclamation cor	ditions which are attached. I	lumber of sheets	attached:	
District will submit conditions at a later da  D. How far will the pipeline(s) have to be exte				
This Project Facility Availability Form is valid until fina withdrawn, unless a shorter expiration date is otherwi	Il discrettonary action is taken o	rsuant to the appl	lication for th	e proposed project or until it is
Authorized Signature:		Print Name	Gres	Schmidt
Print Title GRAPCAL MANAGES	Dhan 71-r	707 2	-72	Date 7. R. 22
NOTE: THIS DOCOMENT IS	NOT A COMMITMENT OF SE	RVICE OR FACIL	ITIES BY TA	E DISTRICT
On completion of Section Planning & Development Serv	2 and 3 by the District, applicant	is to submit this fo	orm with app	lication to:



COUNTY	97 SAN	DIEGO	DEPARTI	MENT OF	PUBLIC N	EALTH

SEPTIC TANK INSTALLATION REPORT

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Legal Location	12.812				-:	5, Block			Block.			
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more than,	10%	-		3 fee				,	66min/1			
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/# <del>***********************************</del>									\$1 grants			



# County of San Diego

# Department of Environmental Health and Quality

Land and Water Quality 5500 Overland Ave., Suite 210, San Diego, CA 92123 / (858) 565-5173 www.sdcdehq.org

# ONSITE WASTEWATER TREATMENT SYSTEM LAYOUT A **EXPIRATION DATE: 11/14/2023**

Owner:

Frailey Stephen P&Maria I

Address:

1444 Cesar E. Chavez Parkway.

San Diego, CA 92113

Phone:

760-765-1343

Site: Parcel:

NO ADDRESS. 291-110-24-00

Certification:

Percolation test

Record ID: DEH2022-LOWTS-015722

This project is APPROVED for the following:

Commercial / Residential: Residential

Gallons / Day: 450

Number of Bedrooms: 3

## THIS IS NOT AN ONSITE WASTEWATER TREATMENT SYSTEM PERMIT

You have until 11/13/2023 to obtain a septic permit. However, a site recheck may be required at any time to determine if site conditions have changed. Refer to the County of San Diego, Department of Environmental Health and Quality, Local Agency Management Program for Onsite Wastewater Treatment Systems for all applicable setbacks and standard conditions of approval.

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Primary Dwelling		Leach Lines	500	1.50	3		10	1	

#### CONDITIONS TO BE COMPLETED PRIOR TO THE ISSUANCE OF A SEPTIC PERMIT

Potable Water Source: Public Water Supply

Water District:

DEHQ Grading Inspection:

DEHQ Building Plan Review:

COMMENTS: Proposed 3BR SFD. Grading check required prior to septic permit issuance. House must be stick built foundation, no grading for house shown on layout.

Public water by Julian Community Services District

Approved By: Brandi Coley

Date: 11/14/2022

County of San Diego t. of Environmental Health and & Water Quality Div.