

JW
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 1400 SANTA ANA VLY RD
 HOLLISTER, CA
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PROJECT:

SINGH
 RESIDENCE

NEW SINGLE
 FAMILY DWELLING

PROJECT AT:

13350-13360 DEPOT ST.
 SAN MARTIN, CA

CONSULTANT:

A.P.N.: 825-02-122

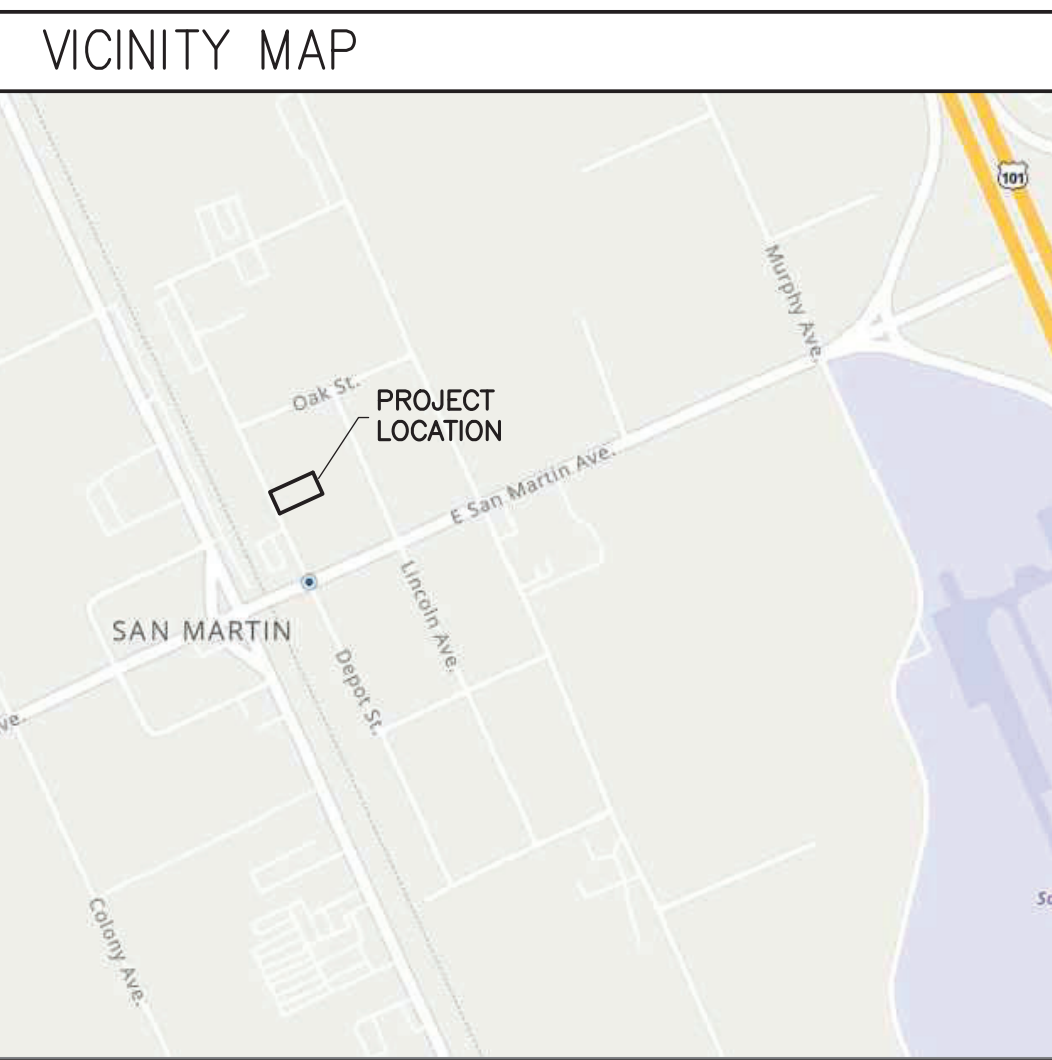
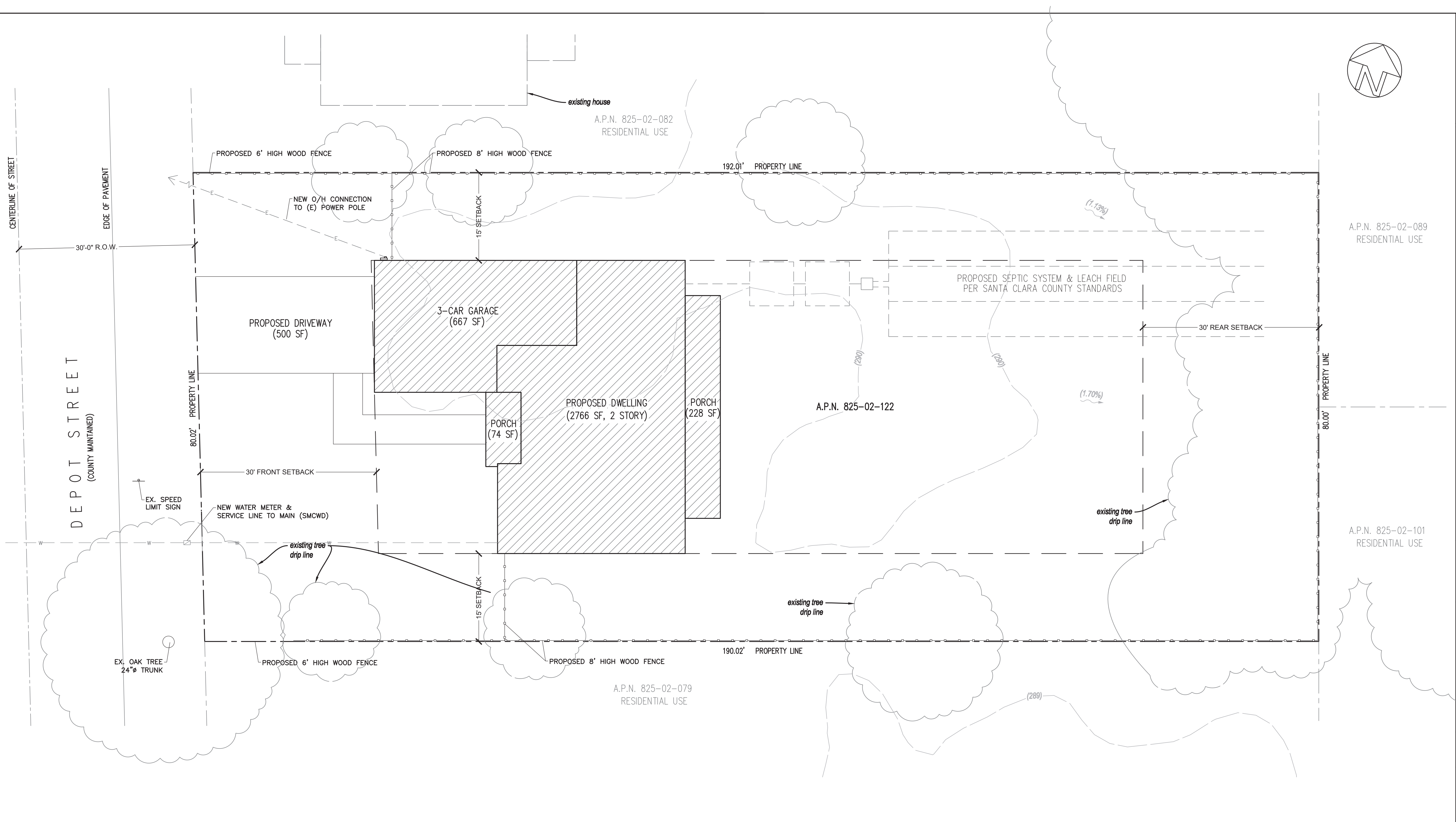
DRAWN BY: J.R.W.

DESCRIPTION	DATE
BUILD. SITE APP.	08.15.24

SCALE: 1/8"=1'-0"
 PROJECT #: 23-30

PLOT PLAN &
 COVER SHEET

A-0



PROJECT DATA	
LOCATION: 13350-13360 DEPOT STREET SAN MARTIN, CA. 95046	LOT SIZE: 0.4 ACRES (15,246 SF)
A.P.N.: 825-02-122 OCCUPANCY CLASSIFICATION: DWELLING R-3, GARAGE U CONSTRUCTION TYPE: V-B NO. OF STORIES: 2 USE: SINGLE FAMILY RESIDENCE ZONING: RR -5Ac-sm GENERAL PLAN: RURAL RESIDENTIAL FIRE SPRINKLERS: NFPA 13D (DEFERRED SUBMITTAL) FEMA FLOOD ZONE: D FAULT ZONE: NO FIRE RESPONSIBILITY AREA: LRA	FLOOR AREA RATIO: 3,915/15,246 = 25.7% IMPERVIOUS COVERAGE: BUILDING FOOTPRINT = 2,326 S.F. IMPERVIOUS SURFACES = 500 S.F. TOTAL = 2,826 S.F. COVERAGE = 18.5%
PROPOSED TOTALS: LOWER LEVEL- 1,356 S.F. UPPER LEVEL- 1,410 S.F. DWELLING TOTAL: 2,766 S.F. GARAGE: 667 S.F. FRONT PORCH: 74 S.F. BACK PORCH: 228 S.F. BALCONY: 180 S.F. TOTAL: 3,915 S.F.	COVERED PARKING SPACES PROVIDED: 3 WATER SERVICE: SAN MARTIN COUNTY WATER DISTRICT SEWER SERVICE: SEPTIC SYSTEM ELECTRIC SERVICE: OVERHEAD PG&E GAS SERVICE: PROPANE

CONTACT INFORMATION	
OWNER:	GURDEV SINGH & DARSHAN KAUR 5542 DUNSBURRY WAY SAN JOSE, CA 95123 408-648-8001
DESIGNER:	JENIFER WALLER 1400 SANTA ANA VALLEY ROAD HOLLISTER, CA 95023 831-801-5094
SHEET INDEX	
A-0	PLOT PLAN & COVER SHEET
A-1	PROPOSED FLOOR PLAN
1	OWTS PLOT PLAN
2	OWTS DETAILS

SCOPE OF WORK

THIS IS A SCHEMATIC SITE PLAN FOR A PARCEL LOCATED IN SAN MARTIN, TO ESTABLISH BUILDING SITE APPROVAL FOR A 2-STORY, ±2766 SF SINGLE FAMILY DWELLING WITH ATTACHED 667 SF 3-CAR GARAGE.

-PROPOSED SEPTIC SYSTEM PER COUNTY STANDARDS.

-CONNECTION TO SAN MARTIN COUNTY WATER DISTRICT (SMCWD) IS AVAILABLE. APPLICATION PENDING BUILDING SITE APPROVAL.

LEGEND	
	PROPERTY LINE
	DIRECTION OF DRAINAGE
	BUILDING FOOTPRINT
	EDGE OF PAVEMENT OR SIDEWALK
	DECK OR RAMP PERIMETER
	(E) UNDERGROUND UTILITY- VERIFY
	(E) OVERHEAD UTILITY
	STREET/ALLEY CENTERLINE

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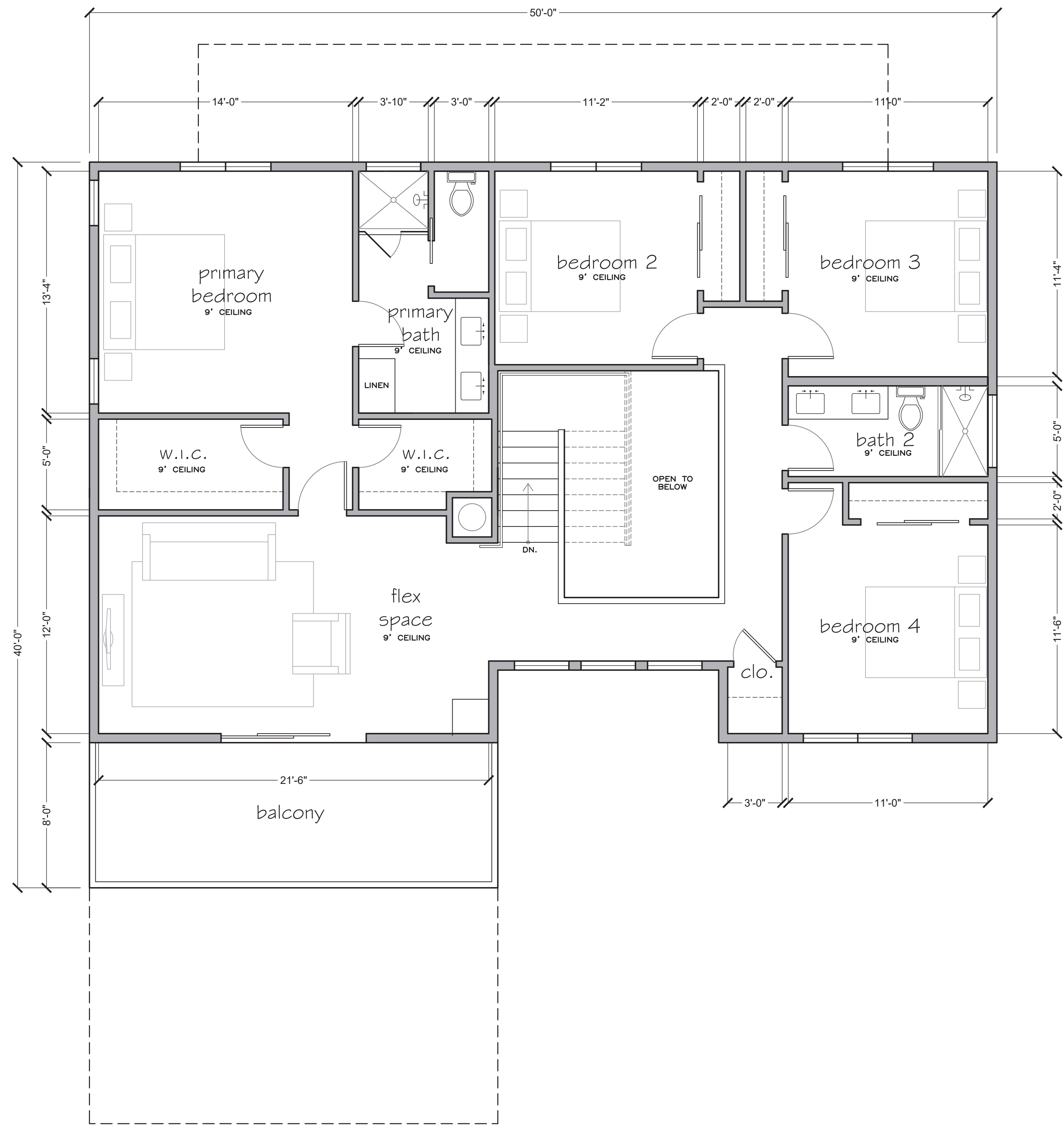
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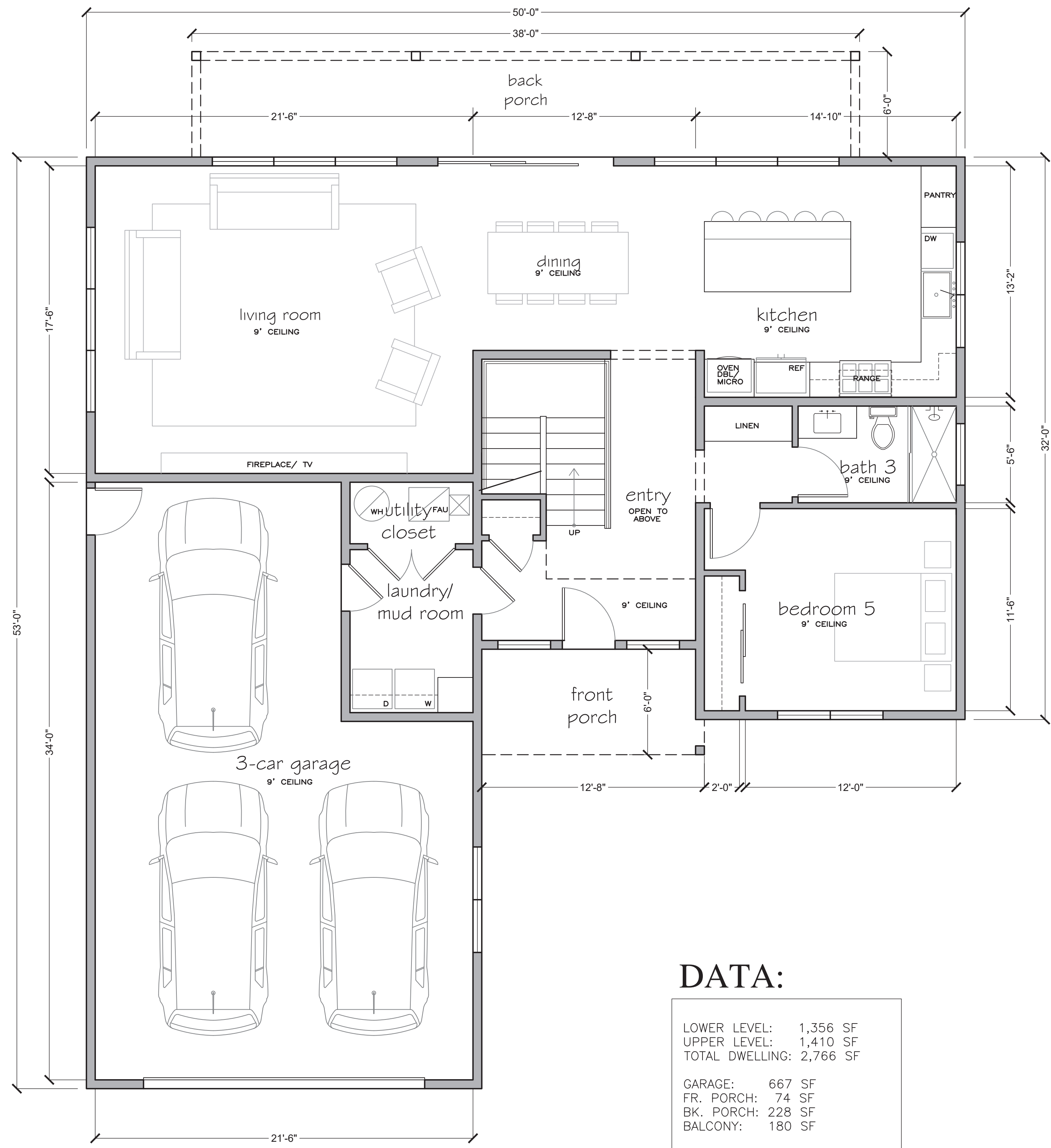
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SCALE: 1/4"=1'-0"
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PROPOSED FLOOR PLAN



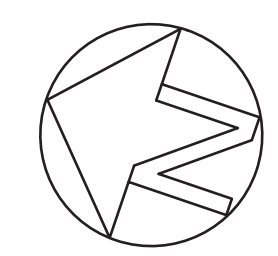
UPPER LEVEL



LOWER LEVEL

DATA:

LOWER LEVEL:	1,356 SF
UPPER LEVEL:	1,410 SF
TOTAL DWELLING:	2,766 SF
GARAGE:	667 SF
FR. PORCH:	74 SF
BK. PORCH:	228 SF
BALCONY:	180 SF
TOTAL:	3,915 SF



Sizing Calculations
Five Bedroom Residence

Adjusted Stabilized Percolation Rate
 $P1 = 7.7, P2 = 0.8, P3 = 9.8, P4 = 16.5, P5 = 9.0, P6 = 34$

Adjusted Average Stabilized Percolation Rate = 3.03 MPI
 Wastewater Application Rate = 1.20 GPD/SQFT

- Wastewater design flow = 600 GPD
- Adjusted Stabilized percolation rate = 4 MPI
- Wastewater application rate = 1.20 GPD/SQFT
- Width of Trench = 24 inches
- Rock below perforated drain pipe = 12 inches
- Infiltration area per linear foot = 4

Design Calculations
 $600 \text{ GPD} / 1.2' \times 4 = 125 \text{ LF}$

Dispersal Field Required = 125 LF + 125 LF

Applicant/Owner:
 Dilpreet Thandi / Ivanka Dasovic
 5542 Dunsbury Way
 San Jose, CA 95123

Civil Engineer:
 David L. Faria, RCE 92432
 1656 Cienega Road Unit 100
 Hollister, CA 95023
 david@fariaengineering.com

Project Information:

APN	825-02-122
Present Use:	Vacant
Present Zoning:	RR-5Ac-sm
Existing Improvements:	vacant
Water:	San Martin Water Company
Sanitary Sewer:	Proposed OWTS
Gas & Electric:	Proposed PGE
Fire Responsibility Area:	LRA
Hazard Zones:	Liquefaction, Seismic
Gross Area:	0.351 ac
Net Area:	0.351 ac

Project Narrative

The proposed onsite wastewater treatment system (OWTS) will serve the proposed House with six bedrooms. The OWTS has been designed as a shallow pressure distribution system due to the high groundwater table and fast percolation rate. The percolation tests were conducted at a depth of 5 feet below the surface. The percolation rate was 4 MPI. A conventional system would require a separation of 20 feet from the highest anticipated level of groundwater. Since the separation of the percolation test depth and the anticipated groundwater level around 15 to 20 feet, a conventional system would not meet the requirements for the 20' separation. A shallow pressure distribution system was selected to meet the required separation to the highest anticipated depth of groundwater.

Water Tightness Testing

Testing must be witnessed by a representative of the County Department of Environmental Health Services. Testing shall be done with the risers in place and the inlet and outlet pipes plugged. The tank shall be filled with water to a level of two (2) inches into the risers and monitored for a one (1) hour period with no measurable drop in the water level. Both tanks must be water tightness tested.

County of Santa Clara - Department of Environmental Health
 SOIL PERCOLATION TEST RECORDED MEASUREMENTS

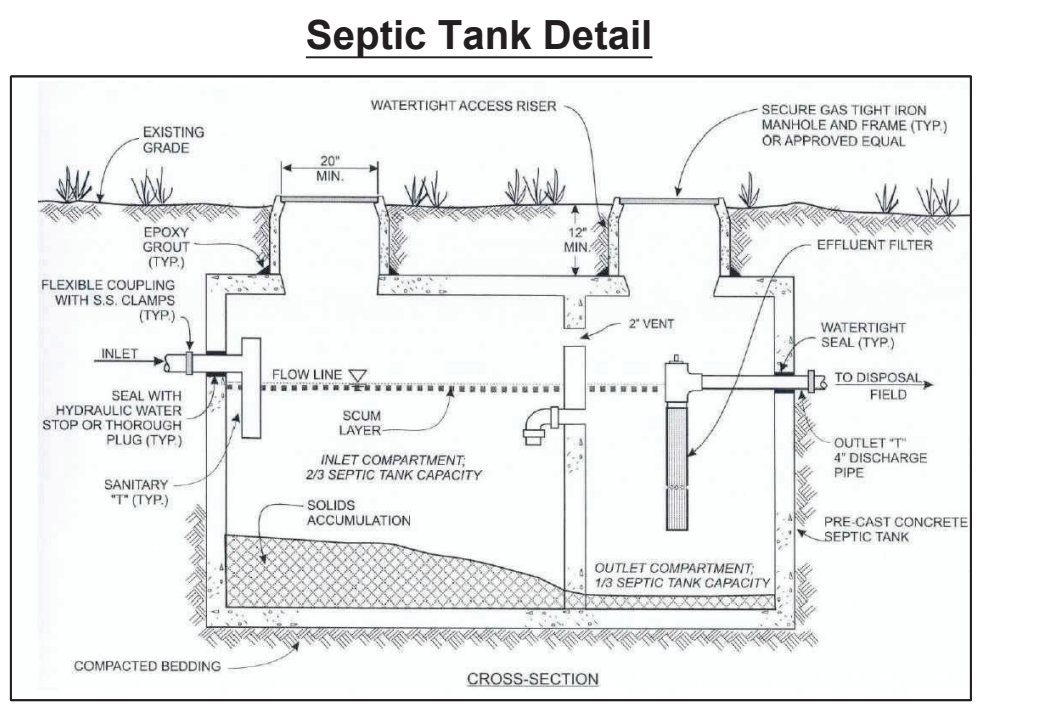
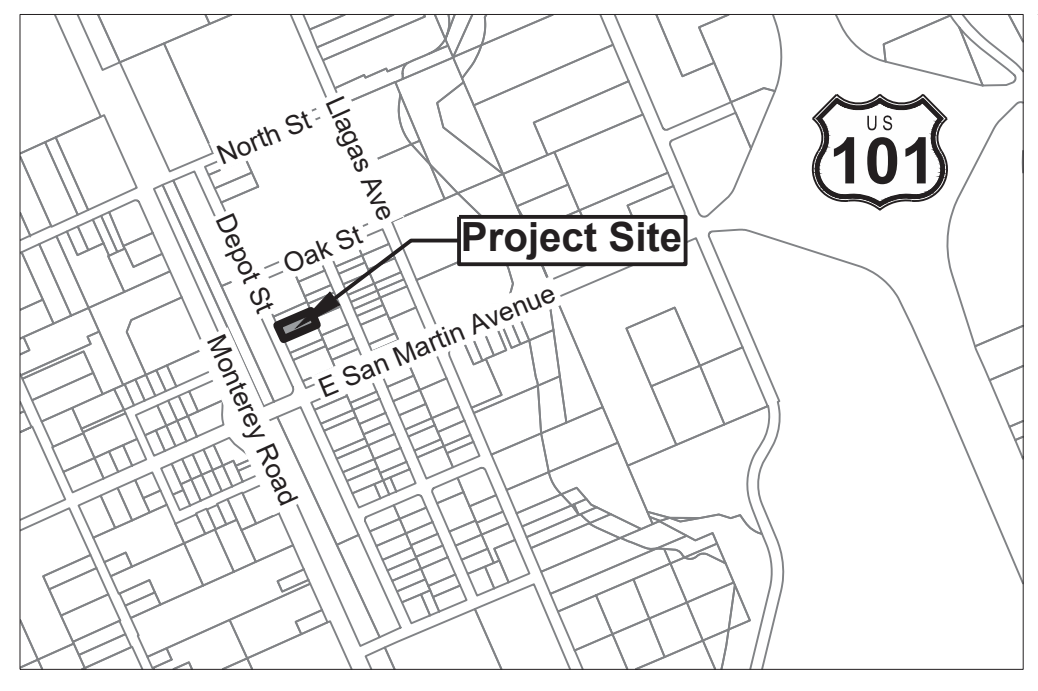
TEST NO.	DATE	TIME	DEPTH	PERCOLATION RATE (MPI)	APPLICANT	ENGINEER
1	11/15/18	10:00	5'	7.7	Dilpreet Thandi	David L. Faria
2	11/15/18	10:30	5'	0.8	Dilpreet Thandi	David L. Faria
3	11/15/18	11:00	5'	9.8	Dilpreet Thandi	David L. Faria
4	11/15/18	11:30	5'	16.5	Dilpreet Thandi	David L. Faria
5	11/15/18	12:00	5'	9.0	Dilpreet Thandi	David L. Faria
6	11/15/18	12:30	5'	34	Dilpreet Thandi	David L. Faria

SOIL PROFILE RESULTS
 CONVENTIONAL SYSTEMS

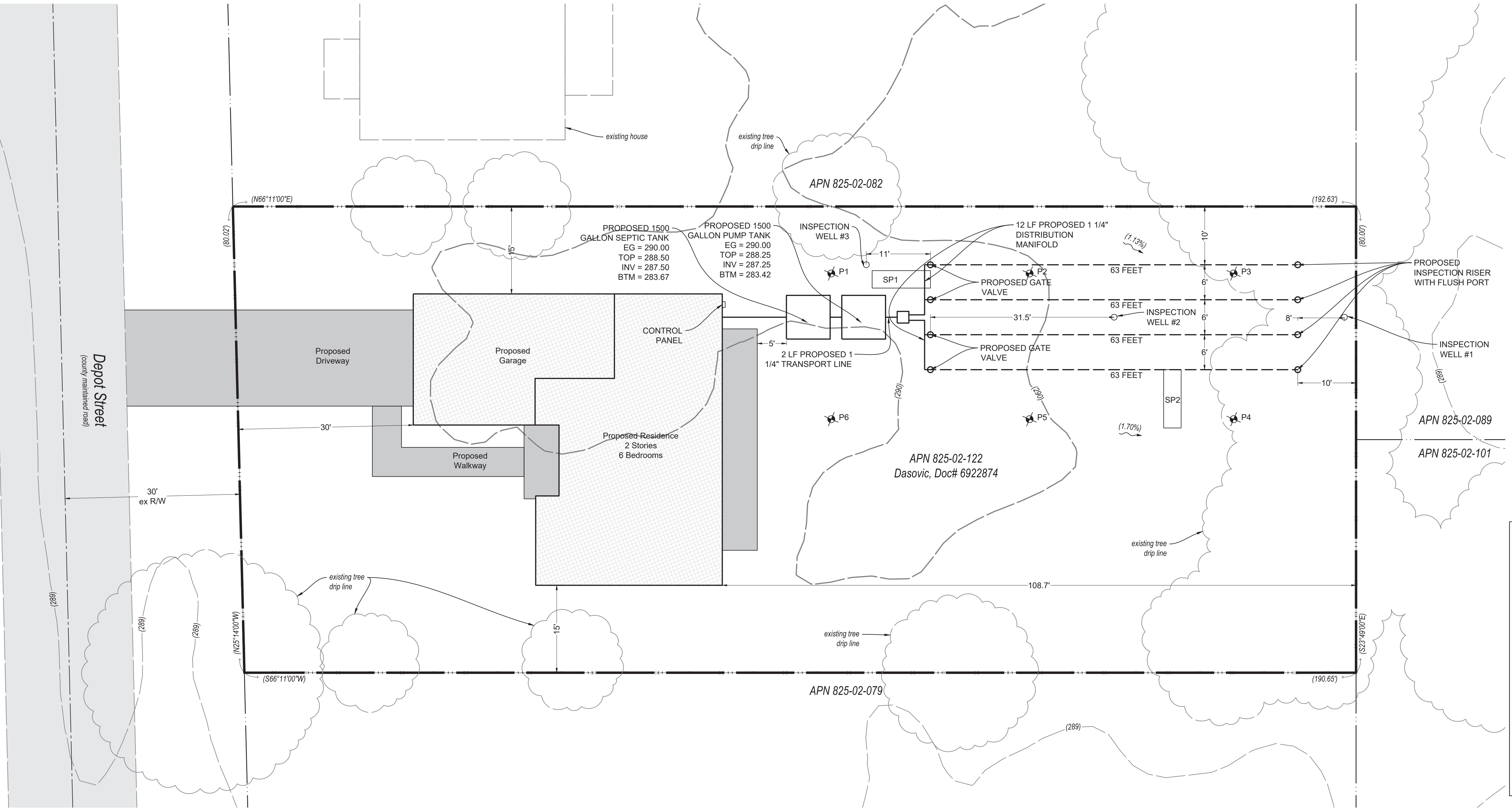
SR# 871215 DATE OF INSPECTION: 4/23/24
 APN# 825-02-122 OWNER: Thandi
 APPLICANT: Dilpreet Thandi
 SITE ADDRESS: Depot Street
 CONDUCTED BY: David Faria / Ivanka Dasovic CHECKED BY: Raymond Chang

HOLE #	DEPTH	SOIL TYPE	REMARKS
SP1	0-12"	Dark clay loam w/ sand	
	12-24"	light brown, medium clay	
	24-36"	moist sandy clayey loam	
	36-48"	same	
	48-60"	same	
	60-72"	light brown silty clay	
	72-84"	same	
	84-96"	same	
	96-108"	same	
	108-120"	same	
	120-132"	same	
	132-144"	same	
	144-156"	same	
	156-168"	same	
	168-180"	same	
	180-192"	same	
	192-204"	same	
	204-216"	same	
	216-228"	same	
	228-240"	same	
	240-252"	same	
	252-264"	same	
	264-276"	same	
	276-288"	same	
	288-300"	same	

COMMENTS:
 End @ 13.5' No GW
 www open
 End @ 13.5' No GW
 www open



- Construction Notes**
- Install 1500 gallon septic tank and pump tank as shown. Install Orenco riser adapters and effluent filter cartridge Model PL-68 on outlet of septic tank.
 - The manhole riser covers shall extend to the ground surface with bolt down lids.
 - The septic tank must pass the water tightness test required by DEH.
 - The pump tank must pass the water tightness test required by DEH.
 - Install EasyPak 20 GPM pump package with MVP-S1DM control panel.
 - Install control panel on the side of the house.
 - All piping must be schedule 40 PVC rated for 150 psi and be solvent welded.
 - All piping must comply with the UPC.
 - Install concrete thrust blocks at all sharp changes in direction.
 - Install 1 1/2" pressure line from the EaskPak to the diversion valve box as shown.
 - Connect each side of the diversion valve to the dispersal manifold as shown.
 - Install dual pressure dosed dispersal system of 126 linear feet on each side of the diversion valve as shown.
 - Attach Orenco Orifice Shields above each 1/8" orifice with the orifice facing upwards.
 - The first and last orifice shall be pointing down.
 - Install an inspection riser with gate valve at the end of each trench as shown.
 - Install three inspection wells at the locations shown.
 - No portion of the dispersal field shall be within 100 feet of a well.

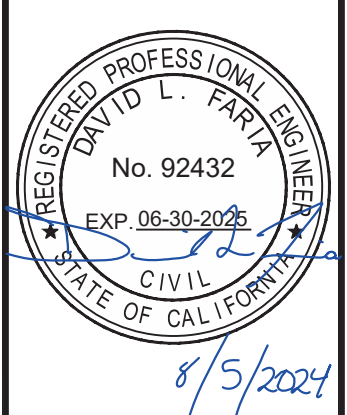


- CONSTRUCTION INSPECTIONS**
- Construction Inspection.** At a minimum, inspection of the shallow PD system installation should include the items listed below. This is in addition to inspection work required for a supplemental treatment system, if used. This is in addition to inspection work required for a supplemental treatment system, if used. Joint inspection by the designer, contractor, and DEH may be required.
 - Pre-construction inspection where the construction staking or marking of the various system components is provided and construction procedures discussed;
 - Water tightness of septic tank and dosing (pump) tank;
 - Layout and excavation of dispersal trenches and piping;
 - Drain rock material and placement;
 - Piping installation and hydraulic ("squirt") test of the distribution system;
 - Functioning and setting of all control devices; and
 - Final inspection to verify that all construction elements are in conformance with the approved plans and specifications, all performance wells are installed; and erosion control has been completed.

MANAGEMENT REQUIREMENTS

Table PD-3. Shallow Pressure Distribution System Management Requirements

Work	Frequency
Inspection <ul style="list-style-type: none"> Conduct routine visual observations of disposal field and downslope area and surroundings for wet areas, pipe leaks or damage, soil erosion, drainage issues, abnormal vegetation, or other problems. Perform all inspections of pump and appurtenances (per O&M manual and Performance Evaluation Guidelines, Part 5 of this Manual). 	<ul style="list-style-type: none"> Every 6 to 12 months.
Maintenance <ul style="list-style-type: none"> Purge laterals, squirt and balance. Exercise valves to ensure functionality. Perform all maintenance work as recommended by equipment manufacturer for any special valves or other components. Investigate and repair erosion, drainage or other disposal field problems, as needed. Investigate and perform distribution system corrective work, as required. Record work done. 	<ul style="list-style-type: none"> Distribution system maintenance annually. Other maintenance as required.
Water Monitoring & Sampling <ul style="list-style-type: none"> Measure and record water levels in trench observation wells. Measure and record water levels in dispersal field monitoring wells, as applicable, per permit requirements. Obtain and analyze water samples from monitoring wells, as applicable, per permit requirements. 	<ul style="list-style-type: none"> Measure trench water levels annually. Other monitoring according to permit conditions, as applicable.
Reporting <ul style="list-style-type: none"> Report findings to DEH per permit requirements. Standard report to include dates, observation well and monitoring well readings and other data collected, work performed, corrective actions taken, and performance summary. Report public health/water quality emergency to DEH immediately. 	<ul style="list-style-type: none"> According to permit conditions, typically every 1 to 2 years, depending on system size, usage, history, location.



NO.	REVISIONS	BY
1		
2		
3		
4		
5		

FARIA ENGINEERING & SURVEYING
 PLANNING • BUILDING • SEPTIC

1600 515-1600
 david@fariaengineering.com

Dasovic - OWTS Plot Plan
13340 Depot Street - APN 825-02-102

DATE: 8/5/2024
 SCALE: 1" = 10'
 DRAWN BY: DF
 CHECKED BY: DF
 JOB NO. **224023**
 SHEET NO. **1** OF **2**

