

Survey Site - Layout Benchmarks – *Russell's presentation*

Mt. Veeder 2600' Elevation

- **Creates Unique Microclimate: 30" – 60" Rainfall**
- **Little frost concerns compared to Napa Valley Floor**

Parcel Geographical Orientation See NORTH POINT

- **SOUTH EASTERLY ORIENTATION**

10 Acres Parcel

- **8 Acres - Water Shed** – Reperian Water: "Small Domestic Use" Permit

Seasonal Creek w/Cofer Dam

Year Around Spring (24 hrs)

Collection Tanks (2) 5,000 Gal Gravity Fed from Water Sources

- **2 Acres – Open Space Plantable Areas #1 & #2**

South Block #1- Approx. 1 Acre pH 5.3 15% Slope

Degree Days Suitable for White Varietal Grapes

Sun Axis Pattern – White Varietal March thru Early October Harvest

"Fairy Ring" Circle of Redwoods around Mother Tree (Stumps)

Subterranean Aquifer

North Block #2- Approx. .75 Acre pH 5.8 15% Slope

Currently Undeveloped

Degree Days Suitable for Red Varietal Grapes

Sun Axis Pattern – Red Varietal March thru Early November Harvest

PLAN & PLANT A HOME VINEYARD Page 2

Soil Profile & Condition

- Gravelly, Loam, Clay, Sandstone
- Horizons Variable Depths (Hard Pan)

Trees

- Redwoods, Douglas Firs, Oaks, Maples, Bays

Rocks

- ½, ¾, to 6" (And possibly much larger)

Predators

- Deer, Racoons, Voles, & Birds

CALCULATION OF NUMBER OF VINES

JOURNAL DATA

Block #1 Orientation - SOUTH TO EAST

- Contour Planting
- Hill & Dale

Number of Rows, Vines, & Spacing

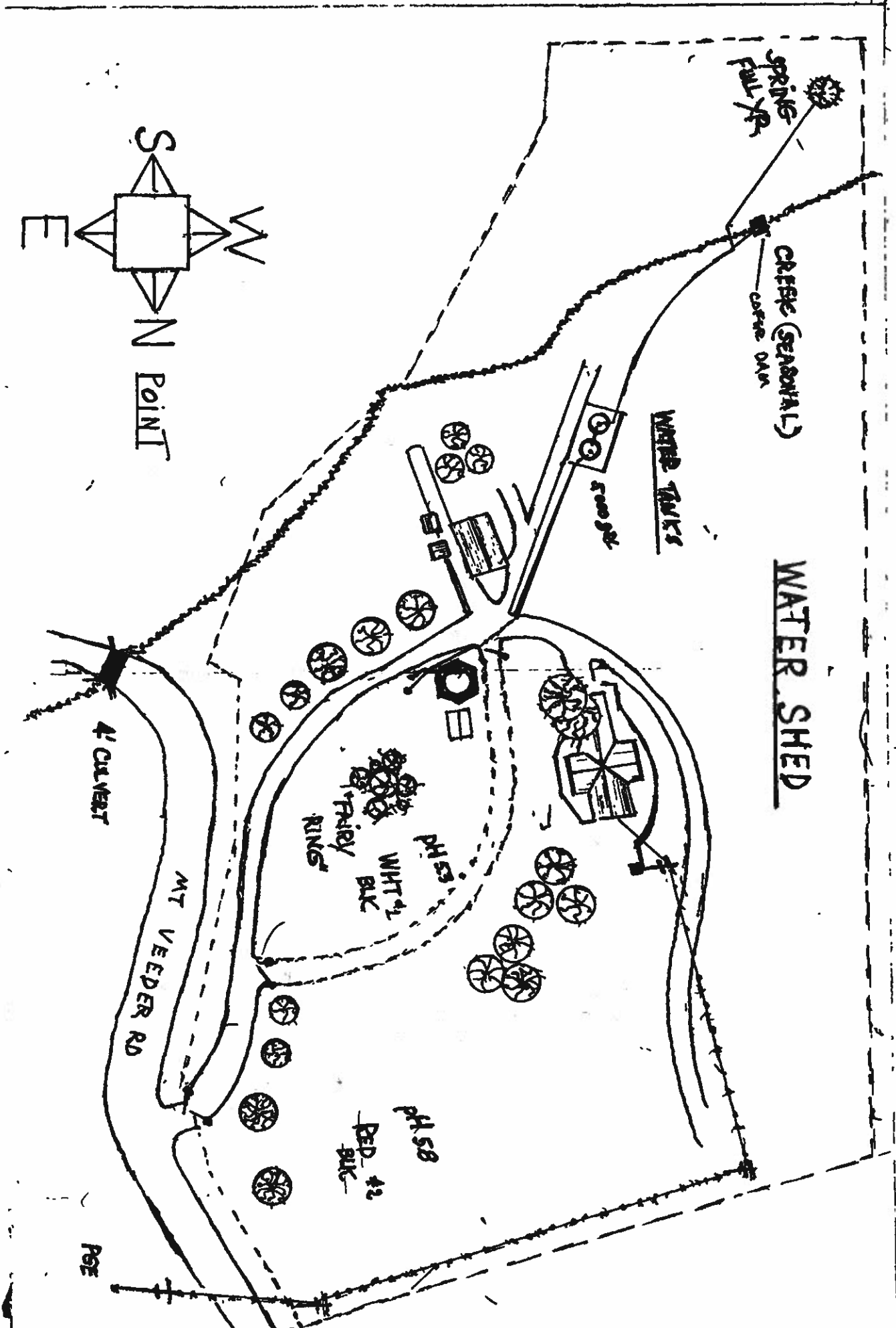
- 5 Rows and 108 Vines
- 9' Between Rows & 8' Between Vines

Trellis System- Lyre - Quadrilateral

Soil Conditions Fair- Required a variety of Amendments

- Cover crops: Fava beans, clovers, winter pea, rye & oat grasses, Horse Manure

ROW VARIATION- 1 – 2 – 3 – 4 – 5 Yield, Maturation, Size, Shape, Brix

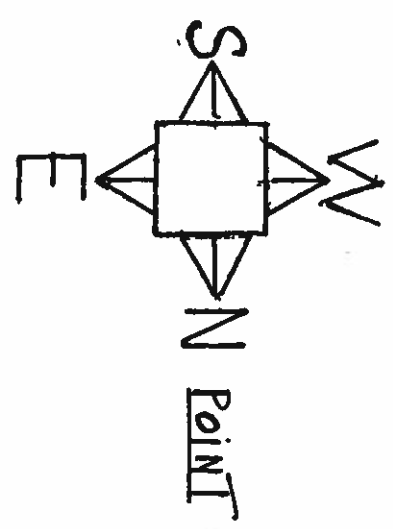


SPRING FULL YR.

CREEK (SEASONAL)
CREEK DAM

WATER TANKS

WATER SHED



4' CULVERT

MT VEDER RD

RAINY RINGS

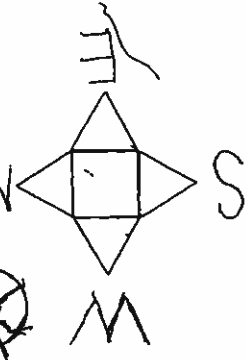
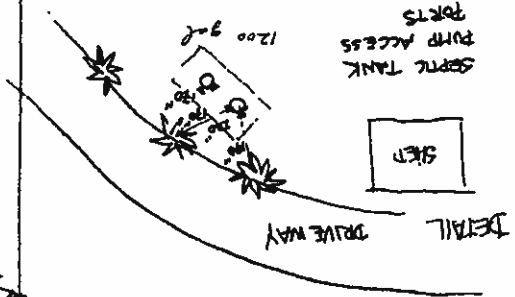
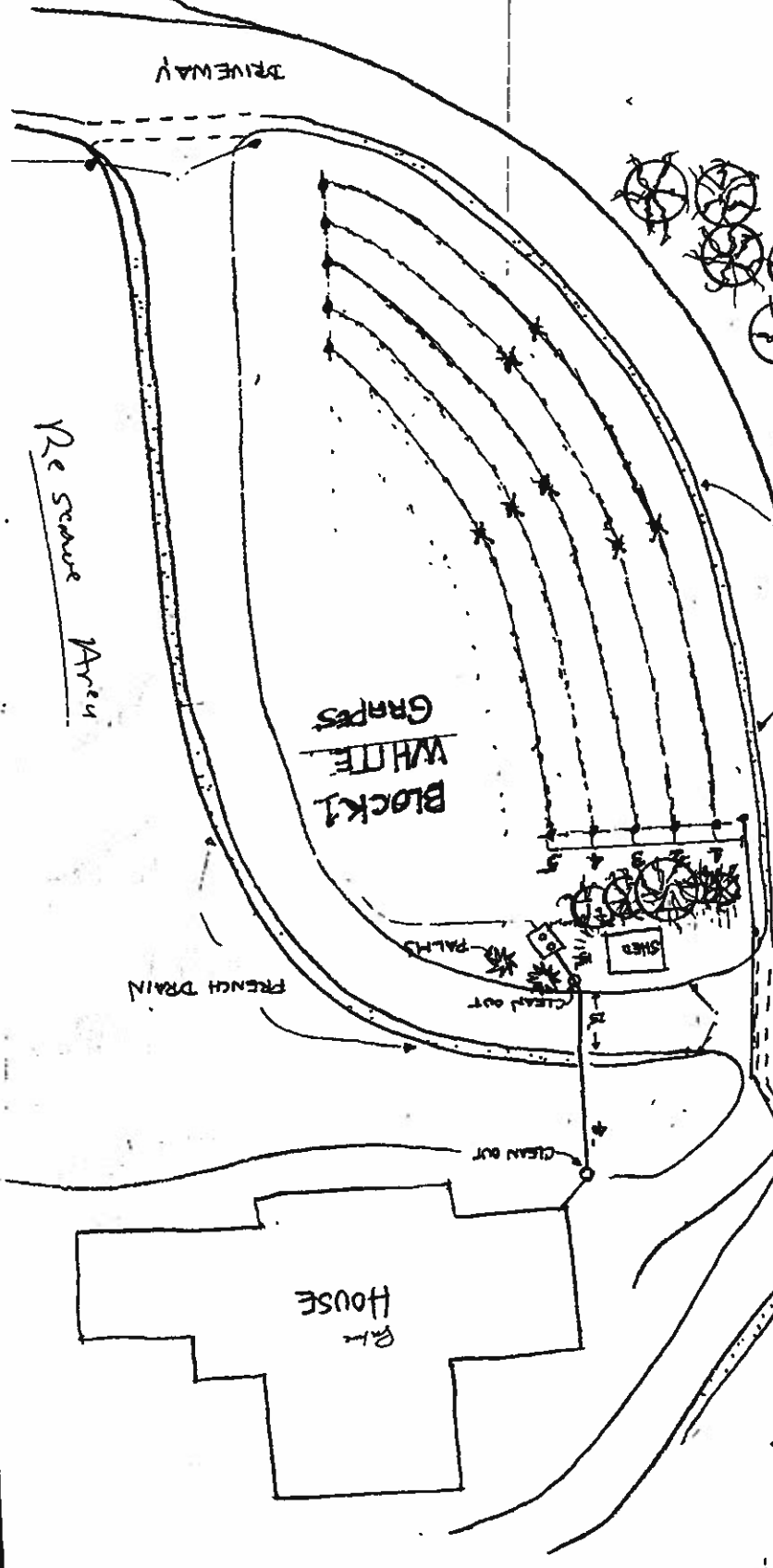
PH 53
WHT 42
BLK

PH 58
RED 42
BLK

PGE

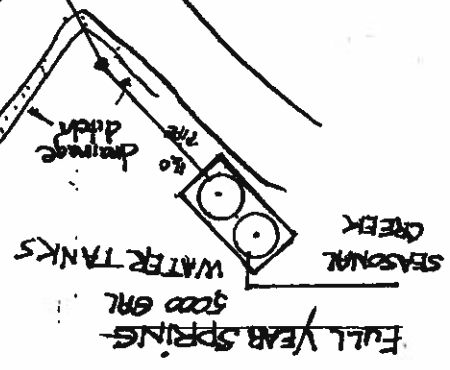
SEPTIC SYSTEM - LEECH FIELD
 DATE 5/5/87
 SCALE 1/4" = 1'-0"
 DRAWN BY [blank]
 APPROVED BY [blank]

AP 34-020-14



: THERE ARE STAKES
 O CAIRNS MARKING
 : ENDS OF THE
 : CH LINES
 CH LINE
 1/4" = 1'-0"

As-Built



SONOMA GRAPEVINES, INC.

**TABLE TO FIND VINES NEEDED
PER ACRE OF VINEYARD PLANTING**

Feet Between Rows

	4	5	6	7	8	9	10	11	12	
Feet Between Vines	4	2723	2178	1815	1555	1361	1210	1089	990	908
	5	2178	1743	1452	1244	1089	968	871	792	726
	6	1815	1452	1210	1037	908	726	660	650	605
	7	1555	1244	1037	889	778	691	622	566	519
	8	1361	1089	908	778	681	605	545	495	545
	9	1210	968	806	691	605	538	484	440	403
	10	1089	871	726	622	545	484	436	396	363
	11	990	792	660	566	495	440	396	360	330
	12	908	726	605	519	454	403	363	330	303

Formula to Find Vines Per Acre

$$\frac{43,560}{(\text{Feet Between Rows} \times \text{Feet Between Vines})} = \text{Vines Per Acre}$$

TABLE TO FIND VINES NEEDED (SEE SONOMA GRAPEVINES)

FORMULA TO FIND VINES PER ACRE

$$\frac{43,560 \text{ sq ft}}{\text{---}}$$

FEET BETWEEN ROWS X FEET BETWEEN VINES

VINES/ACRE

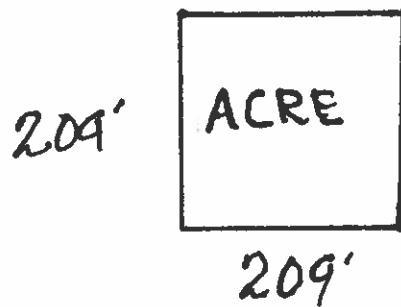
$$8' \times 4' = 32 \text{ sq ft}$$

$$43560 \text{ sq ft} \div 32 \text{ sq ft} = 1361.25 \quad 1361 \text{ VINES}$$

$$\text{FBR} \text{ ---} \times \text{FBV} \text{ ---} = \text{---} \text{ sq ft}$$

$$43560 \text{ sq ft} \div \text{---} = \text{---}$$

$$\text{SQUARE ROOT} \quad 43,560 = 208.71' \quad 209'$$



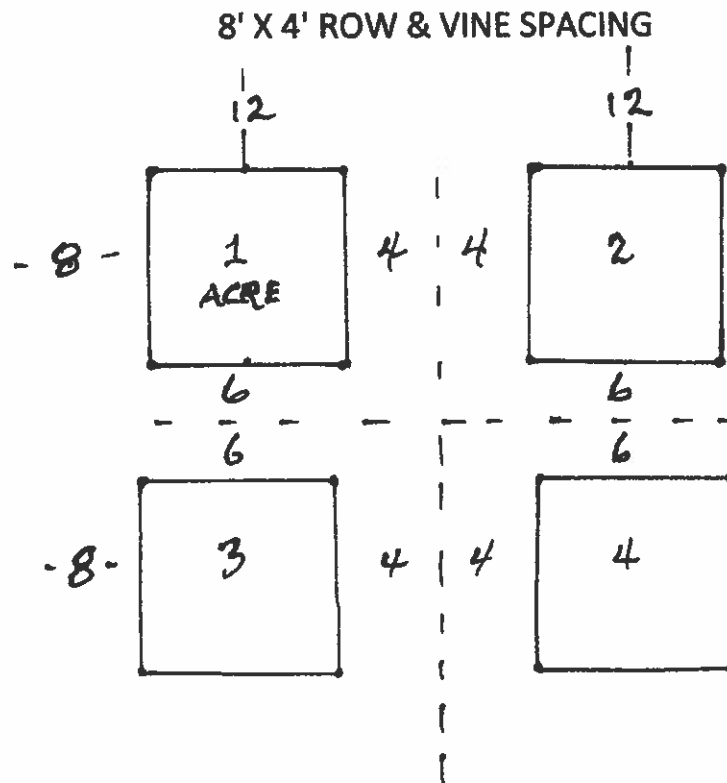
$$\text{HOW MANY ROWS PER ACRE} \quad 209' / 8' = 26.13 \quad 26 \text{ ROWS}$$

$$\text{HOW MANY VINES PER ROW} \quad 209' / 4' = 52.25 \quad 52 \text{ VINES}$$

$$\begin{array}{l} \text{ROWS} \\ 26 \end{array} \times \begin{array}{l} \text{VINES} \\ 52 \end{array} = 1,352 \text{ VINES}$$

$$1,361 - 1,352 = 9 \text{ LESS}$$

ALLOWANCES FOR EQUIPMENT ACCESS-BETWEEN ACRES & TURN-AROUNDS



12' TURN -AROUNDS
8' BETWEEN ROWS

LENGTH BETWEEN ROWS $209' - 12' = 197'$

NUMBER OF ROWS $197' \div 8' = 24.63 \text{ 25 ROWS}$

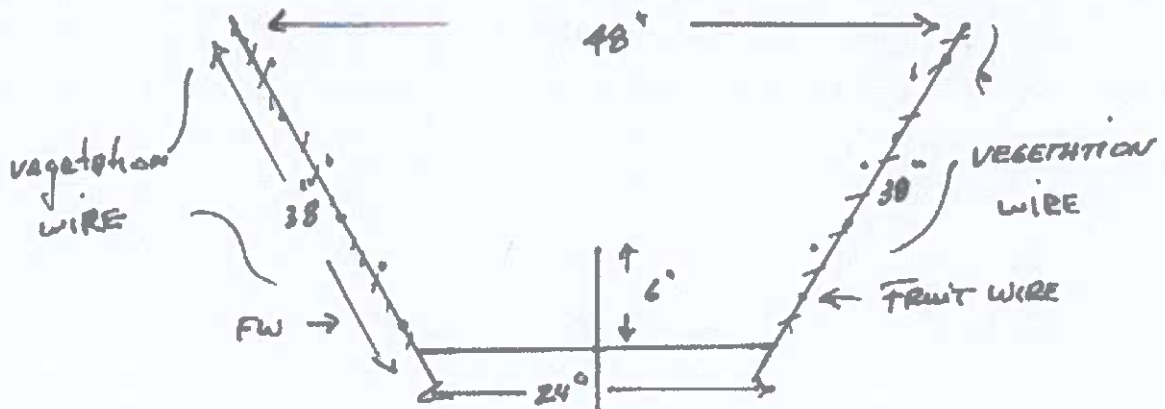
LENGTH OF ROWS $209' - 18' = 191'$

NUMBER OF VINES PER ROW $191' \div 4' = 47.75 \text{ 48 VINES}$

ROWS X VINES = $25 \times 48 = 1,200 \text{ VINES}$

$1361 - 1200 = 161 \text{ VINES}$

Russell Van Dewarck
UWT 291



- OPEN CANOPY
- ALLOWS TRACTOR ACCESS
- High enough to prevent Raccoon Damage (I hope)

"American Trellis Inc"
Turner/Rubio
Vertical Trellis
• open type

