

SITE/SOIL EVALUATION FOR ON-SITE WASTEWATER

FACTORS		PROFILES													
		1	2	3	4	5	6	7	8	9	10				
LANDSCAPE POSITION	.1940														
SLOPE (%)	.1940														
HORIZON 1 DEPTH		0-24	0-30	0-18	0-18										
TEXTURE GROUP	.1941(A)(1)	LS	LS	LS	LS										
CONSISTENCE	.1941														
STRUCTURE	.1941(A)(2)														
MINERALOGY	.1941(A)(3)														
HORIZON 2 DEPTH		21-34	30-36	18-30	18-30										
TEXTURE GROUP	.1941(A)(1)	SCL	SCL	SCL	SCL										
CONSISTENCE	.1941														
STRUCTURE	.1941(A)(2)														
MINERALOGY	.1941(A)(3)														
HORIZON 3 DEPTH		34-36	36-1	30-36	30-36										
TEXTURE GROUP	.1941(A)(1)	SC	SL	SL	SL										
CONSISTENCE	.1941														
STRUCTURE	.1941(A)(2)														
MINERALOGY	.1941(A)(3)														
HORIZON 4 DEPTH															
TEXTURE GROUP	.1941(A)(1)														
CONSISTENCE	.1941														
STRUCTURE	.1941(A)(2)														
MINERALOGY	.1941(A)(3)														
SOIL WETNESS	.1942	34	36	34	36										
RESTRICTIVE HORIZON	.1944														
SAPROLITE	.1943/1956														
CLASSIFICATION	.1948														
LONG TERM ACCEPTANCE RANGE	.1955	4	5	4	5										

1/300
18"

SITE/SOIL EVALUATION FOR ON-SITE WASTEWATER

FACTORS		PROFILES												
		1	2	3	4	5	6	7	8	9	10			
LANDSCAPE POSITION	.1940													
SLOPE (%)	.1940													
HORIZON 1 DEPTH		0-6	0-6	0-34	0-6	0-18	0-18							
TEXTURE GROUP	.1941(A)(1)	LS	LI	LI		LI								
CONSISTENCE	.1941													
STRUCTURE	.1941(A)(2)													
MINERALOGY	.1941(A)(3)													
HORIZON 2 DEPTH		6-24	6-18	24-36	6-12	18-24	18-24							
TEXTURE GROUP	.1941(A)(1)	SC	SC	SC	S	SC	SC							
CONSISTENCE	.1941													
STRUCTURE	.1941(A)(2)													
MINERALOGY	.1941(A)(3)													
HORIZON 3 DEPTH						24-36	26-36							
TEXTURE GROUP	.1941(A)(1)					SC	SC							
CONSISTENCE	.1941													
STRUCTURE	.1941(A)(2)													
MINERALOGY	.1941(A)(3)													
HORIZON 4 DEPTH														
TEXTURE GROUP	.1941(A)(1)													
CONSISTENCE	.1941													
STRUCTURE	.1941(A)(2)													
MINERALOGY	.1941(A)(3)													
SOIL WETNESS	.1942	18"	12"			24"	26"							
RESTRICTIVE HORIZON	.1944	orig depth 18'	orig depth 16'											
SAPROLITE	.1943/.1956													
CLASSIFICATION	.1948	LS	LI	PS		PS	PS							
LONG TERM ACCEPTANCE RANGE	.1955			6		.3	.3							

#1 0-24LS
21-23SL
CR2 28"
30-36SC
exp
CR2

#2 0-26
LS
26" Post

#2 24LS
8-18SL
18-26SL

#7 0-12LS
12-18SL
18-26SL
CR2 exp
AT ~~22"~~
22"

CR2
FAWA
AT
20-24
DISTRICT
AT 24

#8 CR2
AT
14"

#3 0-6LS
6-12SL
12-24SC
exp
CR2
18"

#9 CR2
AT
16"

#10 0-16
LS
16-24
SL
24" Post

#4 0-8LS
8-18SL
18-24SL
CR2
20"

#11 0-8LS
8-16SL
16-24
exp SL

#5 0-10LS
10-16SL
16-26SL
20" exp
CR2

#12 0-10 GrayLS
10-18 CR2

SIP N 09° 04' 00" E SIP

5.77 ACRES

①

5.00 ACRES

②

615.42'
S 80° 56' 00" E

615.42'
N 80° 56' 00" W

EIP SIP
42.44' PK 100.00' 30' PK
S 09° 04' 00" W

353.90' N.C.S.R. 1126
30' PK

WELDON WOMACK

Required Property Line Setbacks

	Minimum	Actual
Front	35	300
Side	70	120
Corner	20	—
Rear	25	261
Nearest Building	10	—

SITE PLAN APPROVAL

DISTRICT RA-ZOR USE SFD

#BEDROOMS 3

Date 05 Aug 82 CBell
Zoning Administrator

PROPERTY OF

RONALD RAY JOHNSON AND WIFE
DOROTHY G. JOHNSON

[Handwritten notes and signatures in the right-hand section of the plan, including "261", "300", "DW", and various illegible scribbles.]

Guideline For Design and Installation of Fill Systems with Conventional Trenches

I. Trench and Fill Specifications

<u>IV</u>	- Soil Texture Group	_____ ft.	- Length of Fill
<u>.1</u> gpd/sq. ft.	- Acceptance Rate	_____ ft.	- Width of Fill
<u>360</u> gpd	- Sewage Flow	_____ sq. ft.	- Total Fill Area
<u>3600</u> sq. ft.	- Trench Bottom	_____ in.	- Depth of Sand
<u>3</u> ft.	- Trench Width	_____ cu. yd.	- Volume of Sand
<u>1200</u> ft.	- Total Trench Length	_____ in.	- Depth of Topsoil
<u>4 5</u>	- Number of Trenches	_____ cu. yd.	- Volume of Topsoil
<u>10090</u> ft.	- Length of each Trench		

II. Site Preparation

1. Place flags at the 4 corners of the area to be filled designated on the improvement permit. Failure to place fill in the permitted area may result in the fill having to be moved or the permit revoked.
2. Do not work when the site is wet. Working on soil when wet can destroy soil structure making the site unsuitable for a Construction Authorization.
3. Remove all above ground vegetation and root mat from area to be filled without removing topsoil. Removal of soil can result in revocation of the permit.
4. Disk the area to be filled to a depth of 6 inches to break up root mat.

III. Placement Of Fill

1. Add 3 to 4 inches of approved sand fill to area and disk again to thoroughly mix the original soil and the fill. Approved sand fill is a sand or loamy sand.
2. Add more sand fill to achieve a uniform height of SD (see diagram) in the middle of the fill area.
3. The fill shall be tapered from the top edge of the fill to the ground surface 2 feet from the boundary of the fill area. The top edge of fill is located 5 feet from the proposed trenches.

4. Six (6) inches of finer textured fill shall be placed over the sand fill and extend to the boundary of the fill area. Finer texture is necessary to establish a vegetative cover which will prevent erosion of the fill. Fill used for cover shall be a sandy loam, loam, silt loam or sand clay loam texture. See CD dimension of diagram. Side slope shall be 1 to 4 except for site with Soil Texture Group 1 which can have a side slope of 1 to 3.
5. Contact Health Department for inspection of fill before constructing trenches. A Construction Authorization must be obtained before proceeding.

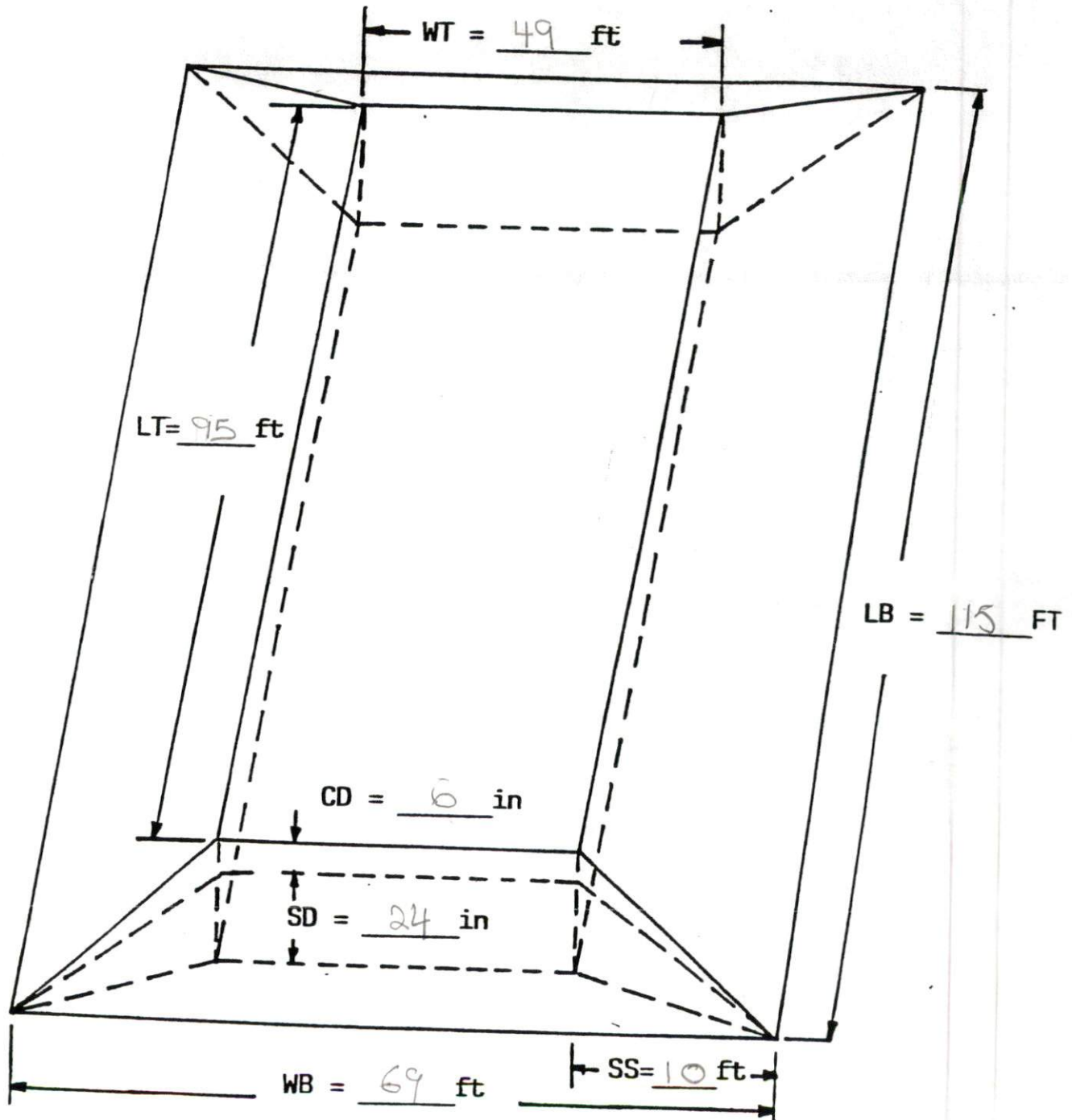
IV. Trench Construction

1. The outside edge of any trench shall be 5 feet from the top of the side slope of the fill.
2. This system is designed with 45 trenches which are 1080 ft. long and 3 ft. wide. Trenches must have a spacing of 9 ft. on centers.
3. Trench bottoms shall be no deeper than 18 inches below finished grade of the fill.
4. Trench bottoms shall be constructed level.
5. Distribution boxes shall be located 5 feet from the top edge of the fill.
6. Call the Health Department for inspection after the trenches are finished.

V. Landscaping

1. The fill must be shaped to shed surface water and shall be stabilized with grass or other suitable cover to prevent erosion.
2. Vegetation must be maintained after established. Grass must be mowed.
3. Additional fill beyond what has already been specified may be necessary to cover and landscape around the septic tank.
4. Call the Health Department for inspection after landscaping is complete. The Operation Permit allowing use of the system is issued at this time.

DIMENSIONS OF FILL SYSTEM



DEFINITIONS

WT - width of top
LT - length of top
WB - width of bottom
LB - length of bottom

SS - side slope
SD - sand depth
CD - cover depth

Calculation of Fill Volume

Total volume of fill (TVF)

$$\begin{aligned} \text{TVF} &= [(LT + LB)/2 \times (WT + WB)/2] \times \text{TFD} \\ &= [(\overset{210}{95} \text{ FT.} + \underset{105}{115} \text{ FT.})/2 \times (\overset{118}{49} \text{ FT.} + \underset{59}{69} \text{ FT.})/2] \times \underset{\times 2.5}{2.5} \text{ FT.} \\ &= \underline{15487.5} \text{ CU. FT.} \end{aligned}$$

(DIVIDE BY 27 CU. FT. TO OBTAIN CU. YDS.)

$$= \underline{574} \text{ CU. YDS.}$$

Total volume of sand (TVS)

$$\begin{aligned} \text{TVS} &= [(LT + LB - 4)/2 \times (WT + WB - 4)/2] \times \text{SD} \\ &= [(\overset{206}{95} \text{ FT.} + \underset{103}{115} \text{ FT.} - 4)/2 \times (\overset{114}{49} \text{ FT.} + \underset{57}{69} \text{ FT.} - 4)/2] \times \underset{\times 2}{2} \text{ FT.} \\ &= \underline{11742} \text{ CU. FT.} \end{aligned}$$

(DIVIDE BY 27 CU. FT. TO OBTAIN CU. YDS.)

$$= \underline{435} \text{ CU. YDS.}$$

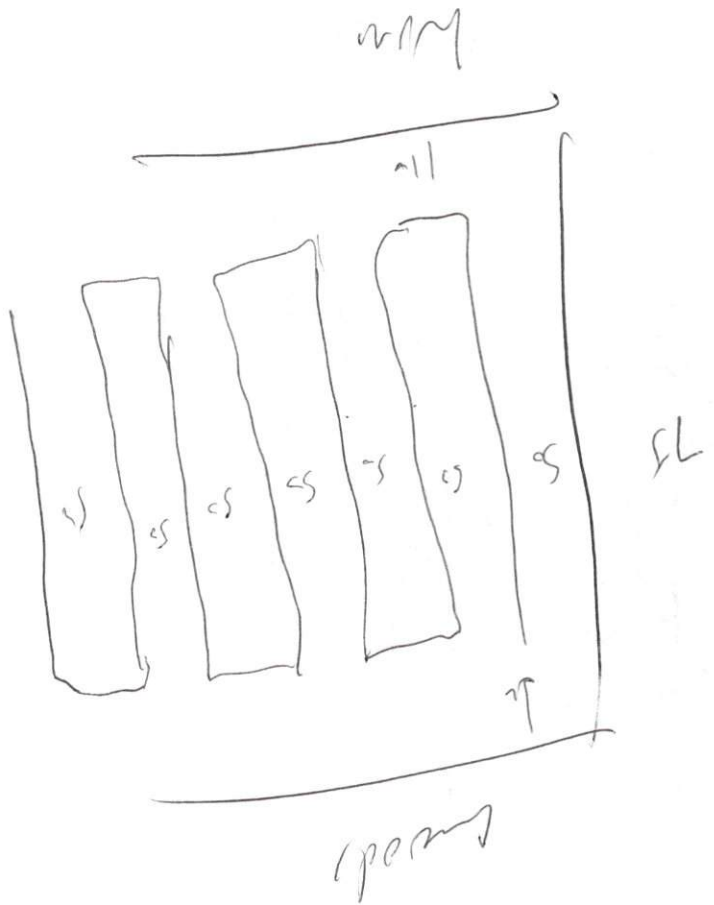
Total volume of cover (TVC)

$$\begin{aligned} \text{TVC} &= \text{TVF} - \text{TVS} \\ &= \underline{574} \text{ CU. YD.} - \underline{435} \text{ CU. YD.} \\ &= \underline{139} \text{ CU. YD.} \end{aligned}$$

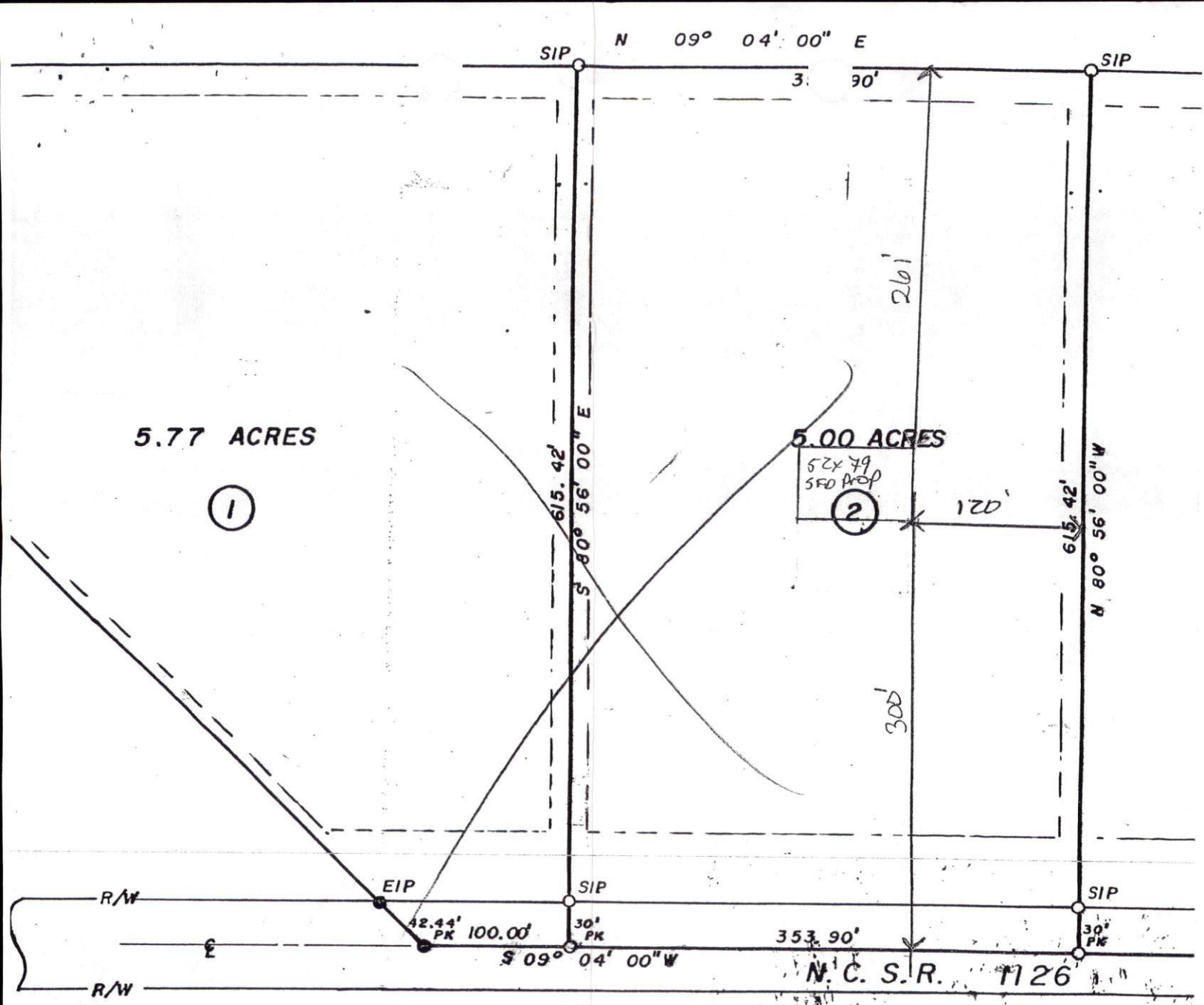
Key to abbreviations:

LT = length of top
LB = length of bottom
WT = width of top
WB = width of bottom

TFD = total fill depth
= SD + CD
SD = sand depth
CD = cover depth



Jerry M. M. M.
 B. M. M.
 M. M. M.



5.77 ACRES

①

5.00 ACRES

②

52x79
SFD PROP

WELDON WOMACK

11 = 100'

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