

Piggery Construction

Documents:-

Pig Building Manual

Pig Building Issues and Specs

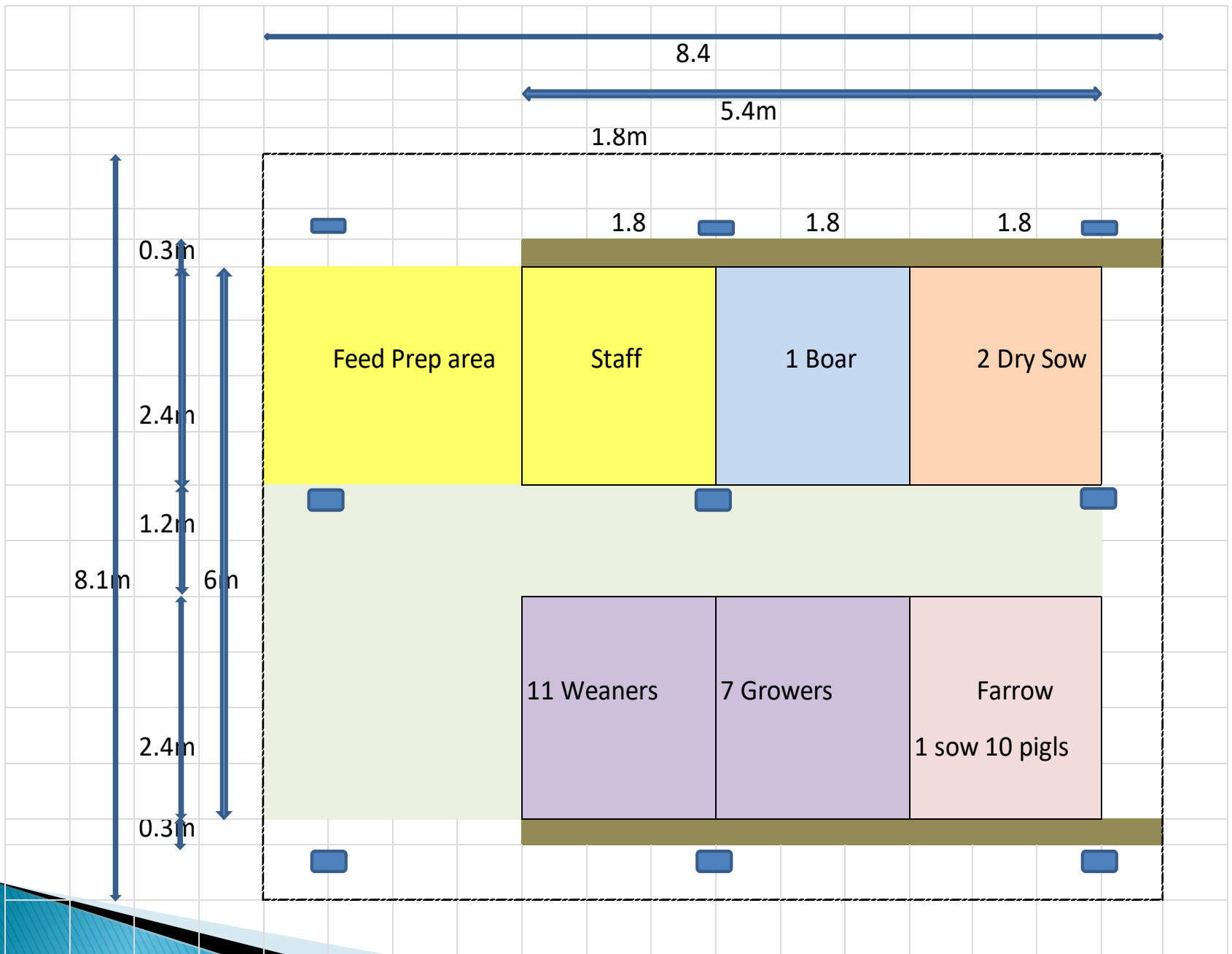
PDF Files A00,A02,A03,A04,A05,A06,A07,A08

All Pen layouts

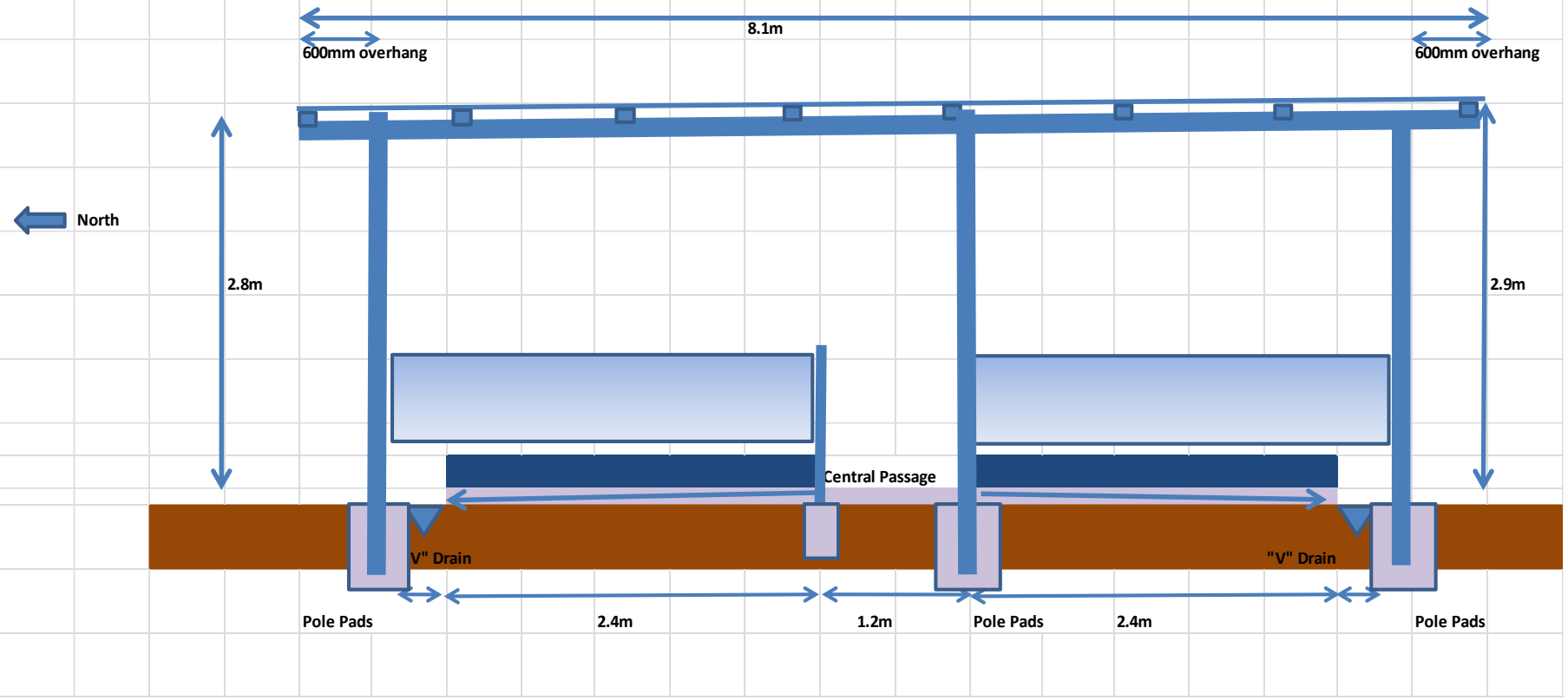
Scale

The concepts behind building simple small scale piggery units in Samoa.

- ▶ 5 sow indoor/outdoor piggery unit the likely scale of commercial piggeries involved in the matching grant program of the of the SACEP project.

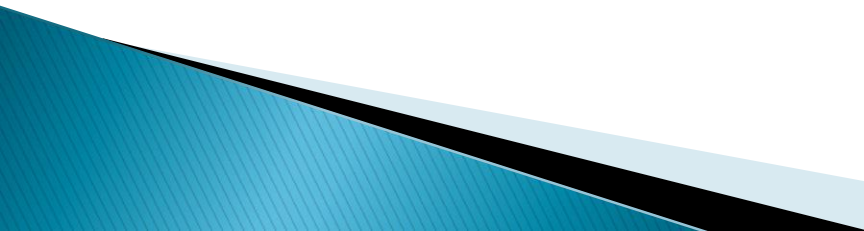


North South Cross Section

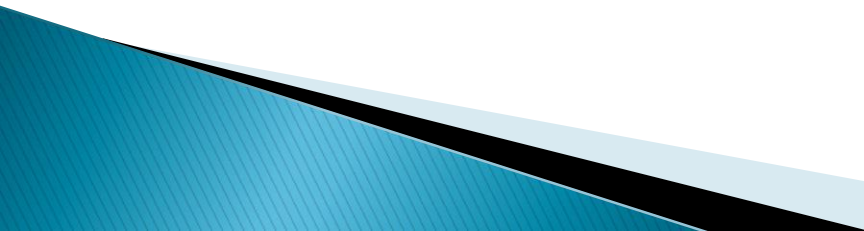


Outside	2 to 3 sows
	1 young boar
	10 growers

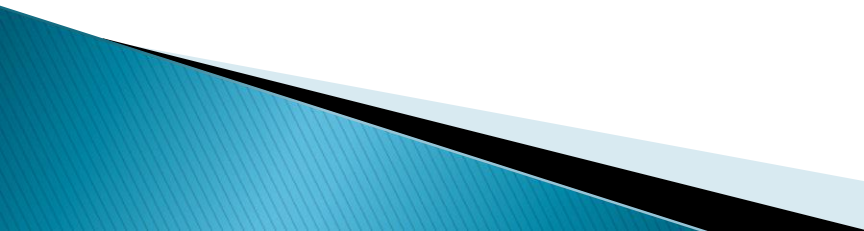
Selecting a suitable site.

- ▶ Good ventilation and a cool environment reduce the stress on the pigs minimizing disease and improving growth.
 - ▶ Well elevated and open to the prevailing daytime wind to maximize cooling for the pigs during the hot day time temperatures.
 - ▶ Sea Breezes
 - ▶ The sheds should be aligned for the sun on an East West axis as, whilst the breezes can be diverted, the sun is a constant.
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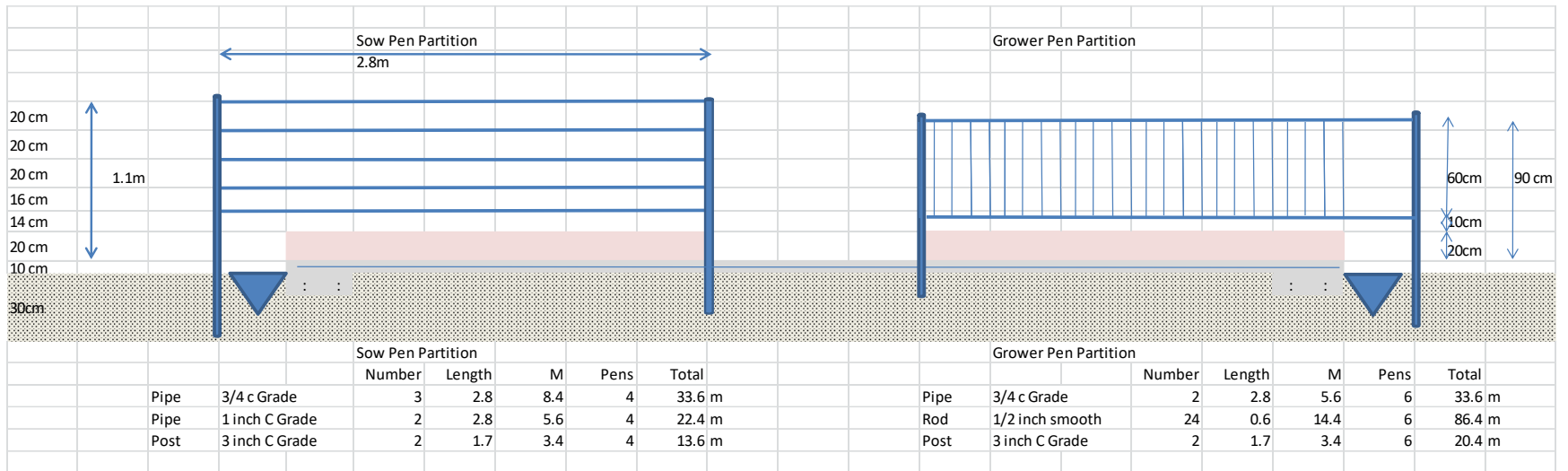
Continued

- ▶ Ideally on a slope to allow gravity to move water and effluent through the piggery
 - ▶ The piggery should be located distant from any water course.
 - ▶ Road access is relatively important particularly if feed needs to be delivered
 - ▶ Water is an essential service. Each pig will require up to 25 lts per day for drinking and washing.
 - ▶ The provision electricity may not be necessary (unless pumps are required)
 - ▶ Mobile phones will suffice.
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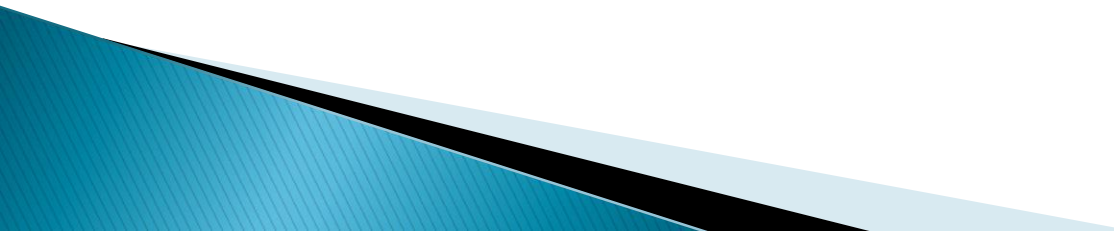
Construction

- ▶ Lean to structure with the roof supported on a grid of posts at 4m centers.
 - ▶ The sides are open to allow good ventilation.
 - ▶ The floor is a strong reinforced concrete slab 25 (mpa) laid to falls of 1 in 40.
 - ▶ Various partition types are included for different classes of pigs.
 - ▶ The zincalume roof is supported on double rafters (200mm by 50mm) Purlins (100mm by 50 mm) at 1.2m centers. Additional strength is gained by wire cross bracing and strapping.
 - ▶ Because of the modular design of the unit it is relatively simple to either add or subtract pens to meet the needs of specific designs and stock numbers.
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Partitions



Effluent Issues to Consider

- Storm Water drain
 - Waste Water Drains
 - Septic Tank system
 - Overland flow treatment
 - Maintenance
 - Hazardous substances storage and handling
 - Waste disposal
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Vinaka