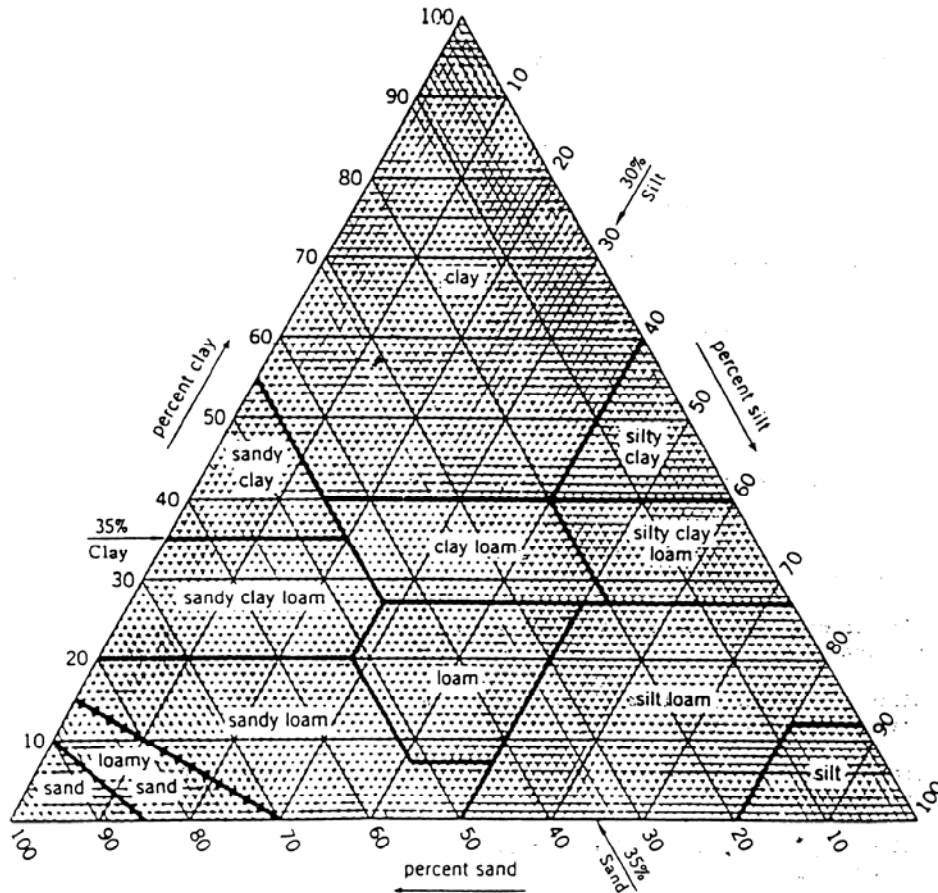


APPENDIX A



COMPARISON OF PARTICLE SIZE SCALES

American Association of State Highway Officials Soil Classification	Cobbles*		Clay		Silt		Fine sand		Coarse sand		Fine gravel		Medium gravel		Coarse gravel		Boulders	
U. S. Department of Agriculture Soil Textural Classification	Clay		Silt		Very fine sand		Fine sand		Medium sand		Coarse sand		Fine gravel		Coarse gravel		Cobbles	
Unified Soil Classification	Fines (silt or clay)**				Fine sand		Medium sand		Coarse sand		Fine gravel		Coarse gravel		Cobbles			
	Sieve sizes				0.075		0.150		0.300		0.600		1.18		2.0		4.75	
	0.075				0.150		0.300		0.600		1.18		2.0		4.75		9.5	
	Particle size—mm.																	

\*Cobbles included in clay fraction in test reports.  
 \*\*The LL and PL of "SB" plus below the "A" line on the plasticity chart, Table 4 and the LL and PL for "Clay" plus above the "A" line.

**Sands:** Soil material that contains 85 percent or more of sand; percentage of silt, plus one and one-half times the percentage of clay, shall not exceed 15.

**Loamy sands:** Soil material that contains at the upper limit 85 to 90 percent sand; percentage of silt, plus one and one-half times the percentage of clay, is not less than 15. At the lower limit it contains not less than 70 to 85 percent sand; percentage of silt, plus twice the percentage of clay, does not exceed 30.

**Sandy loams:** Soil material that contains 20 percent clay or less-- and the percentage of silt plus twice the percentage of clay exceeds 30-- and 52 percent or more sand; (or) less than 7 percent clay, less than 50 percent silt and between 43 percent and 52 percent sand.

**Loam:** Soil material that contains 7 to 27 percent clay, 28 to 50 percent silt and less than 52 percent sand.

**Silt loam:** Soil material that contains 50 percent or more silt and 12 to 27 percent clay (or) 50 to 80 percent silt and less than 12 percent clay.

**Silt:** Soil material that contain 80 percent or more silt and less than 12 percent clay.

**Sandy clay loam:** Soil material that contains 20 to 35 percent clay, less than 28 percent silt and 45 percent or more sand.

**Clay loam:** Soil material that contains 27 to 40 percent clay and 20 to 45 percent sand.

**Silty clay loam:** Soil material that contains 27 to 40 percent clay. add less than 20 percent sand.

**Sandy clay:** Soil material that contains 35 percent or more clay and 45 percent or more sand.

**Silty clay:** Soil material that contains 40 percent or more clay and 40 percent or more silt.

**Clay:** Soil material that contains 40 percent or more clay, less than 45 percent sand and less than 40 percent silt.