

Soil Types

Soil Type	Topsoil Depth, Subsoil Depth Substratum (inches)	Soil Permeability	Inches per Hour	Erosion Hazard	Comments on Soil Characteristics	Design Comments
AQB	Varied Varied Varied	NA Variable Slow to very slow	1 0	High	0 to 5% slopes Beware of high water tables typical of these meadow soils	A site specific investigation and design is needed; probably not infiltration, but low impact.
ARE	0 to 7 7 to 26 Over 26	NA Slow to moderately slow Very Slow to moderately slow	0.5 0	High	2 to 30% slopes Clayey loam over rock	Infiltration not acceptable greater than 26 inches.
BCG	0 to 11 11 to 40 Over 40	NA Rapid Slow	4 0.5	High	30 to 75% slopes Loamy sand over rock	
CEE	0 to 12 12 to 40 Over 40	NA Variable to rapid Very slow to very rapid	1 0	High	2 to 30% slopes Coarse loamy soils	Infiltration not acceptable greater than 40 inches.
CIF	0 to 8 8 to 55 Over 55	NA Moderately slow Moderately slow	1 1	High	30 to 50% slopes Varied over rock	
CRE	0 to 8 8 to 34 Over 34	NA Slow to moderate Slow to moderately rapid	0.5 0.5	High	2 to 30% slopes Some clay subsoil content	
EUB	0 to 12 12 to 48 Over 48	NA Moderate to rapid over slow Rapid	0.5 4	Moderate	2 to 5% slopes High rock content	
EUE	0 to 12 12 to 48 Over 48	NA Moderate to rapid over slow Rapid	0.5 4	High	5 to 30% slopes Gravel and rock content	
EVB	0 to 8 8 to 40 Over 40	NA Mod. rapid to rapid over slow Rapid	0.5 4	Moderate	2 to 5 % slopes Coarse textures and high amounts of rock fragments	

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EWB	0 to 6 6 to 30 30 to 60	NA Variable to moderately rapid Very slow to rapid	1 0	High	2 to 5% slopes Possible high ground water table	Infiltration not acceptable greater than 30 inches.
EXE	0 to 7 7 to 25 25 to 36	NA Moderately slow Very slow	1 0	High	2 to 30% slopes Rocky; gravelly clay loam over gravelly sandy loam	Infiltration not acceptable greater than 25 inches.
FRE	0 to 7 7 to 38 Over 38	NA Moderately slow to moderate Moderately slow	1 1	High	2 to 30% slopes Fine loamy of clayey soils	
FRF	0 to 7 7 to 38 Over 38	NA Moderately slow to moderate Moderately slow	1 1	High	30 to 50% slopes Fine loamy of clayey soils	
FTE	0 to 7 7 to 38 Over 38	NA Moderately slow to moderate Moderately slow	1 1	High	2 to 30% slopes Gravelly clayey loam subsoil over rock	
FTF	0 to 7 7 to 38 Over 38	NA Moderately slow to moderate Moderately slow	1 1	High	30 to 50% slopes Gravelly clayey loam subsoil over rock	
FUC	0 to 8 8 to 54 over 54	NA Moderately slow Moderately slow	1 1	Moderate	2 to 9% slopes Gravelly alluvial soils	
FUE	0 to 8 8 to 50 Over 50	NA Moderately slow Moderately slow	1 1	High	9 to 30 % slopes Clayey loams	
FUF	0 to 8 8 to 50 Over 50	NA Moderately slow Moderately slow	1 1	High	30 to 50% slopes Clayey loams	
GEC	0 to 13 13 to 40 Over 40	NA Variable to very rapid Very slow to very rapid	1 0	High	2 to 9 % slopes Seasonal water table Possible high ground water table	Infiltration not acceptable greater than 40 inches.

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JTF	0 to 13 13 to 41 41 to 47	NA Moderate Moderate	2 2	High	30 to 50% slopes Sandy loam	
JUG	0 to 13 13 to 41 41 to 47	NA Moderate Moderate	2 2	High	30 to 75% slopes Sandy loam	
JWF	0 to 11 11 to 38 Over 38	NA Mod. slow to moderately rapid Slow to moderate	1 0.5	High	30 to 50% slopes Gravelly loam	
JXF	0 to 12 12 to 37 Over 37	NA Moderate to moderately rapid Very slow to moderate	2 0	Very high	30 to 50% slopes Rock fragments and possible high ground water/imperm. layers	Infiltration not acceptable greater than 37 inches.
KME	0 to 7 7 to 26 Over 26	NA Slow to moderately slow Very slow to moderately slow	0.5 0	High	2 to 30% slopes Rock substratum; can produce surface runoff	Infiltration not acceptable greater than 26 inches.
KRE	0 to 8 8 to 50 Over 50	NA Moderately slow Moderately slow	1 1	High	2 to 30% slopes Clayey loam over rock	
KRF	0 to 8 8 to 50 Over 50	NA Moderately slow Moderately slow	1 1	High	30 to 50% slopes Clayey loam over rock	
MEB	0 to 14 14 to 68 Over 68	NA Moderately slow Rapid	1 4	Moderate	2 to 5% slopes Sandy loam over gravelly clay loam	
MIG	0 to 19 Over 19	Very rapid Very slow	6 0	High	30 to 75% slopes Sandy loam over hard rock	Infiltration not acceptable greater than 19 inches.
MIG 3	0 to 2 2 to 11 Over 11	 Moderately rapid Very slow	 3 0	Very high	30 to 75% slopes Gravelly sandy loam over weathered rock	Infiltration not acceptable greater than 11 inches.

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MKF	0 to 19	Moderately rapid	3	High	30 to 50% slopes Gravelly sandy loam over rock	Infiltration not acceptable greater than 19 inches.
	Over 19	Very slow to slow	0			
MKF3	0 to 5	NA		Very high	30 to 50% slopes Impermeable layers and underlying rock	Infiltration not acceptable greater than 16 inches.
	5 to 16	Moderately rapid	3			
	Over 16	Very slow to slow	0			
MLG	0 to 15	NA		Very high	30 to 75% slopes Soils reach capacity rapidly and can produce runoff	Infiltration not acceptable greater than 25 inches.
	15 to 25	Moderately rapid	3			
	Over 25	Very slow to slow	0			
PX	Any	NA NA NA		NA	Borrow pits Site investigation required	
RRG	0 to 21	NA		High	2 to 30 % slopes Possible concentrated surface runoff	Infiltration not acceptable greater than 33 inches.
	21 to 33	Moderately rapid	3			
	Over 33	Very slow	0			
SIE	0 to 8	NA		High	2 to 30 % slopes Gravelly sandy loam over clay over rock	
	8 to 58	Moderately slow	1			
	Over 58	Moderately slow	1			
STG	0 to 13	NA		High	30 to 75% slopes Sandy loam	
	13 to 41	Moderate	2			
	41 to 47	Moderate	2			
SUG	All	None	0	High	30 to 75% slopes Rock and/or rubble can cause concentrated runoff	A site specific investigation and design is needed; possible hydrology study and detention.
TAF	0 to 22	NA		High	30 to 50% slopes High amount of rock fragments	Infiltration not acceptable greater than 41 inches.
	22 to 41	Moderately rapid	3			
	Over 41	Very slow	0			
TBE	0 to 22	NA		Very high	2 to 30 % slopes Sandy loam over impermeable layers	Infiltration not acceptable greater than 41 inches.
	22 to 41	Moderately rapid	3			
	Over 41	Very slow	0			

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TBF	0 to 22 22 to 41 Over 41	NA Moderately rapid Very slow	3 0	Very high	30 to 50% slopes Sandy loam over impermeable layers	Infiltration not acceptable greater than 41 inches.
TIE	0 to 21 21 to 33 Over 33	NA Moderately rapid Very slow	3 0	Very high	2 to 30 % slopes Sandy soils over impermeable layers	Infiltration not acceptable greater than 33 inches.
TTF	0 to 10 10 to 49 Over 49	NA Moderately slow to moderate Moderately slow to moderate	1 1	High	30 to 50% slopes Coarse, stony and a high amount of rock fragments	
ULC	0 to 5 5 to 26 Over 26	NA Moderately slow Moderate	1 2	High	2 to 9 % slopes Shallow soil over rock Clay content	
W	Water	NA	NA	NA	Water	
WAF	0 to 9 9 to 39 Over 39	NA Moderately rapid Slow	3 0.5	High	30 to 50% slopes High amount of rock fragments	
WBE	0 to 8 8 to 39 Over 39	NA Moderately rapid Very slow to slow	3 0	Very high	2 to 30% slopes Sandy loam; possible high water table and impermeable layers	Infiltration not acceptable greater than 39 inches.
WDE	0 to 15 15 to 32 Over 32	NA Moderately rapid Very slow to slow	3 0	High	2 to 30 % slopes Sandy loam over rock Can produce surface runoff	Infiltration not acceptable greater than 32 inches.
WDF	0 to 15 15 to 32 Over 32	NA Moderately rapid Very slow to slow	3 0	High	30 to 50% slopes Sandy loam over rock Can produce surface runoff	Infiltration not acceptable greater than 32 inches.
WEE	0 to 15 15 to 32 Over 32	NA Moderately rapid Very slow to slow	3 0	Very high	2 to 30 % slopes Can include impermeable layers and can produce surface runoff	Infiltration not acceptable greater than 32 inches.

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XCE	0 to 8 8 to 34 Over 34	NA Slow to moderate Slow to moderately rapid	0.5 0.5	High	2 to 30% slopes Loam over various Can produce surface runoff	
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Notes:

Where buildings are to be placed on sites with slopes greater than 33% without a minimum of 20 foot clearance between the toe or heel of the slope and the building or where buildings will be placed directly on the slope a geotechnical report is needed to justify an alternate setback (CBC 1805.3.5).

On steep sites around Donner Lake a hydrology study may be required.