

Revision	By	Approved	Date
ORIGINAL		Kerchengl	12/75
Add Metric		T. Stanton	03/03
Delete Metric S.S.I.		T. Shell	03/11

SAN DIEGO REGIONAL STANDARD DRAWING

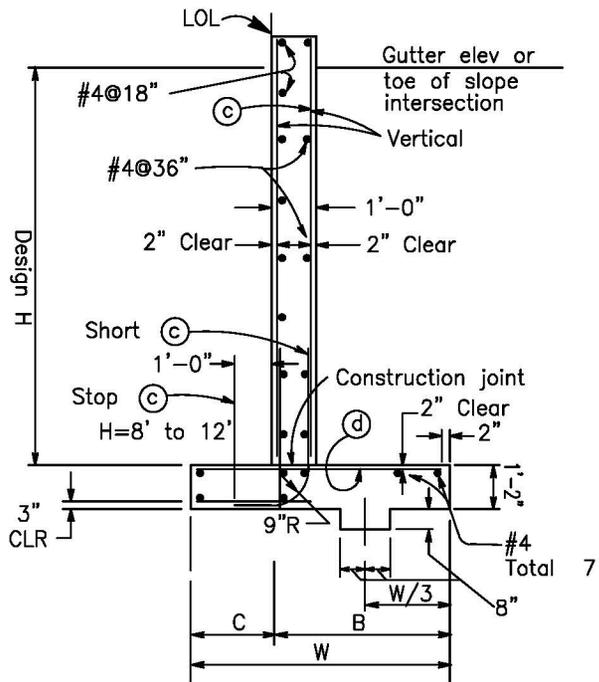
REINFORCED CONCRETE RETAINING WALL

TYPE 1A

DRAWING NUMBER C-12A

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

Chief Engineer R.C.E. 19246 Date 7/26/2012



SPREAD FOOTING SECTION

Place concrete in toe against undisturbed material, except as permitted by the Engineer.

NOTES:

Design H may be exceeded by 6" before going to the next size. Footing key is required except when found unnecessary by Engineer. Special footing design is required where foundation material is incapable of supporting toe pressure loads listed in table.

Design Data:

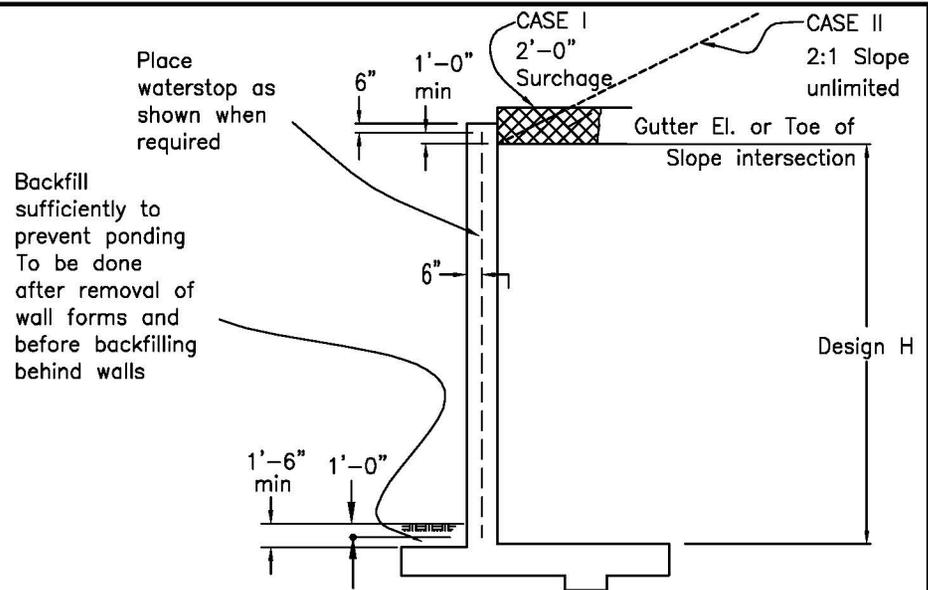
$f_c = 1300 \text{ psi}$ $f'_c = 3250 \text{ psi}$ $f_s = 24,000 \text{ psi}$ $n = 10$ earth 120 pcf

Case I – Equivalent fluid pressure = 36 psf max for determination of toe pressure. 27 psf min for determination of heel pressure.

Case II – Earth pressure determined from Rankine's formula with $\phi = 33^\circ - 42^\circ$.

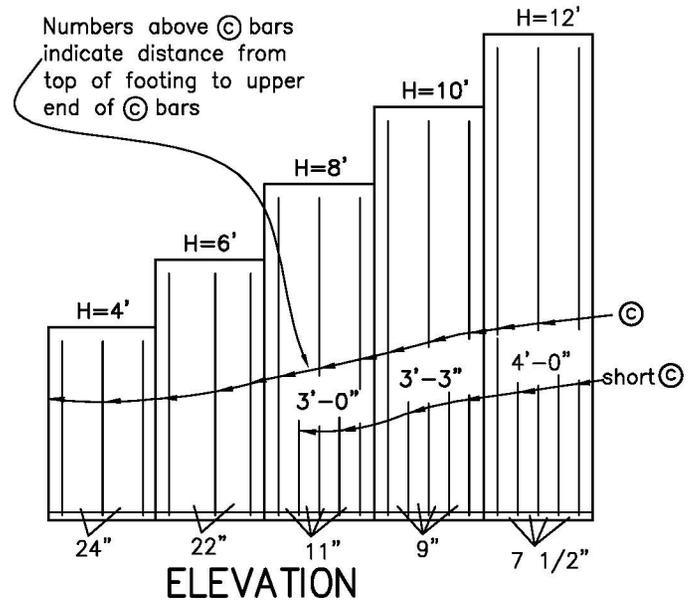
NOTE:

Reinforcement detailed is to be placed in addition to that shown for spread footing. All piles not shown. see Pile Layout on plans.



DESIGN

For drainage notes and other details, see "Retaining Wall Details No.1" Drawing C-13A to C-13D



ELEVATION