【CLAIMS】

1. A C.G.S construction method capable of performing a seismic retrofit and a quality control, the method comprising:

an injection pipe inserting step for inserting an injection pipe, which is provided to inject a grout into a ground, to the ground;

an injecting step for injecting the grout into the ground through the injection pipe inserted in the injection pipe inserting step, the grout being injected in predetermined quantities per unit time under an injection pressure that is a predetermined static pressure;

a pressure measuring step for measuring a discharge pressure which is a discharge pressure of the grout injected in the injecting step, and determining whether the amount of change in the discharge pressure measured in the pressure measuring step is constant according to an injection depth at which the grout is injected;

an injection adjusting step for adjusting, when the amount of change in the discharge pressure measurement is not constant, at least one or more of the injection pressure of the grout in the injecting step, and the unit time at which predetermined quantities of the grout are injected; and

a depth changing step for changing a depth at which the injection pipe is inserted in the ground after the injection of the grout is completed,

wherein when the value of the amount of change in the discharge pressure measurement increases, the injection adjusting step controls the injection pressure of the predetermined static pressure in the injection step to be relatively low, and when the value of the amount of change in the discharge pressure measurement decreases, the injection adjusting step increases the unit time at which the predetermined quantity of grout in the injection step is injected.

2. The method of claim 1, wherein the injecting step injects the grout by settings that are adjusted in the injection adjusting step, when performing the injecting step again after the depth changing step.

3. The method of claim 1, wherein the injecting step is set so that an injection amount per unit time set when injecting the grout is equal to or less than 50 times a ground permeability of the ground to which the grout is injected.