What is claimed is:

1. A rainwater storage device comprising:

a plurality of water storage pipes buried in a ground, the water storage pipes each having a rainwater inflow port on a surface of the ground;

a lower connecting pipe that connects bottom part regions of the plurality of water storage pipes to each other; and

an upper connecting pipe that is located above the lower connecting pipe and connects the plurality of the water pipes to each other, wherein:

the plurality of water storage pipes is arranged in a plurality of rows and columns, extending in a predetermined direction as a first direction and a second direction intersecting the first direction, respectively; and

the lower connecting pipe is arranged in an inclined state toward one water storage pipe out of the plurality of water storage pipes; and

the upper connecting pipe is arranged in an inclined state toward a direction opposite an inclined direction of the lower connecting pipe.

2. The rainwater storage device according to claim 1, wherein the plurality of water storage pipes is arranged in the plurality of rows and columns, extending in a longitudinal direction as the first direction and a lateral direction as the second direction orthogonal to the first direction.

3. The rainwater storage device according to claim 2,

among the plurality of water storage pipes that is arranged in the plurality of rows and columns, extending in the longitudinal direction and the lateral direction, respectively, at least the water storage pipes arrayed on an outer perimeter are connected in line by the lower connecting pipe and the upper connecting pipe to each other, and

the water storage pipes other than the water storage pipes on the outer perimeter are connected at least in one of the longitudinal and the lateral directions by the lower connecting pipe and the upper connecting pipe.

4. The rainwater storage device according to claim 2, wherein

a submerged sludge pump is installed on a bottom part of the one water storage pipe among the plurality of water storage pipes that is arranged in the plurality of rows and columns, extending in the longitudinal direction and the lateral direction, respectively, the one water storage pipe being installed at one corner portion of the plurality of water storage pipes.

5. The rainwater storage device according to claim 2, wherein

a submerged sludge pump is installed on a bottom part of the one water storage pipe among the plurality of water storage pipes that is arranged in the plurality of rows and columns, extending in the longitudinal direction and the lateral direction, respectively, the one water storage pipe being installed at one corner portion of the plurality of water storage pipes, and

a rainwater discharge pump is installed in another of the water storage pipes that is installed at a corner portion that is on a diagonal line from the one water storage pipe.

6. The rainwater storage device according to claim 1, wherein the plurality of water storage pipes is buried in the ground corresponding to a basement of a building.

7. The rainwater storage device according to claim 1, wherein each of the plurality of water storage pipes is formed by connecting a plurality of pipes that are pressed into the ground.