150	BRICKWORK MASONRY.
	Length, 8 courses
warp	The bottom bed used in this case was the one-inch board upon the the pier was originally built; the board appeared to be slightly bed, and split under the application of the load, causing a variation in stress, to which is due the early failure of the pier.
Pier	No. 4.
	DescriptionKingston Road, 3rd class, laid in lime mortar with 3/8" joints.
	Size of pier, 9" x 9"area, 81 square inches.  Length, 8 courses24 inches.
	Weightpounds.
	Age2½ months.
	Ultimate load24,000 pounds.
	Crushing strength per square inch296 pounds.
	" foot21.3 tons.
	Failure occurred by splitting of the bricks in the upper courses, then
	vertical cracks opened throughout the whole length, and under
	est load every brick in the pier was shattered.
Pier	No. 5:
	Description. Humber, 1st class, laid in lime mortar.
	Size of pier, 9" x 9"area, 81 square inches.
	Length, 8 courses24 inches.
	Weight122 pounds.
	Age
	Ultimate load28,000 pounds. Crushing strength per square inch346 pounds.
	" " foot
	The pier held well together until near the ultimate load, then long
	nuous cracks appeared, with final rupture of the whole pier.
Pier	No. 6:
	Description Humber, 2nd class, laid in lime mortar.
;	Size of pier, $83/4'' \times 83/4''$ area, 76.5 square inches.
	Length & courses

Length, 8 courses......23½ inches.

Weight ......118 pounds.

principal fa Pier No. 7 Descr Size o Lengtl Weigh Age. Ultima Crushi The pie four sides, o Pier No. 8: Descrip Size of Length, Weight. Age ... Ultimate Crushin The pie mortar crumb

portions of th

Pier No. 9:

Descripti

3/8". Size of pi

Length, 5 Weight..

Age....

Ultimate

Crushing

Age. Ultin Crush

All th