

CAPISTRANO BAY DISTRICT
AGENDA REPORT
January 27, 2015

Manager's Reports and Old Business

ITEM J.4

Repairs to Storm Drain No. 12 at 35595 Beach Road

The owner of this property began some repairs and maintenance work to his pre-existing seawall in December. During the course of the work a section of the existing storm drain running through this property was exposed to reveal a rusted-out hole in the pipe where water was leaking out and eroding the grade.

In order to repair the damage a section about 4 feet long was cut out of the drain pipe at a point about 30 feet from the discharge end. This in turn revealed a large hardened mass of sand, gravel and seawater that was blocking the regular flow of water through the pipe.

The District began incurring cost for labor to bust up and remove the blockage. This took two laborers a week to complete due to the tight working space inside a 24 inch diameter drain pipe.

The pipe is now cleaned out and repaired and flowing much better but there is a bit more work to be done at the discharge end where some kind of gate or barricade needs to be installed to prevent rocks, gravel and sand from washing up inside the pipe again.

A metal plate rock/sand barricade is being fabricated and will be installed during early February based on the design shown in the attached sketch. This is a prototype that has not been in use before although it is planned for use at all the District's drain outfalls assuming it works as intended.

Providing that this design works it will be a vast improvement over the older-style flapgates that never worked as advertised. Initial cost per unit will run about \$350 which includes a 'metallizing' process similar to galvanizing that coats the exterior of the metal parts to prevent rust and corrosion.