

Design and Construction of the Shotover Delta Dose and Drain Effluent Disposal System

L O W E
Environmental
I m p a c t



**QUEENSTOWN
LAKES DISTRICT
COUNCIL**

Fluent
SOLUTIONS



ction structure
of building

larged connection to
existing 600dia valve

Gradual curve to accommodate
change of direction

DIN 800 PN 6.3 PE 100
distribution pipe

Installed at base of revetment wall

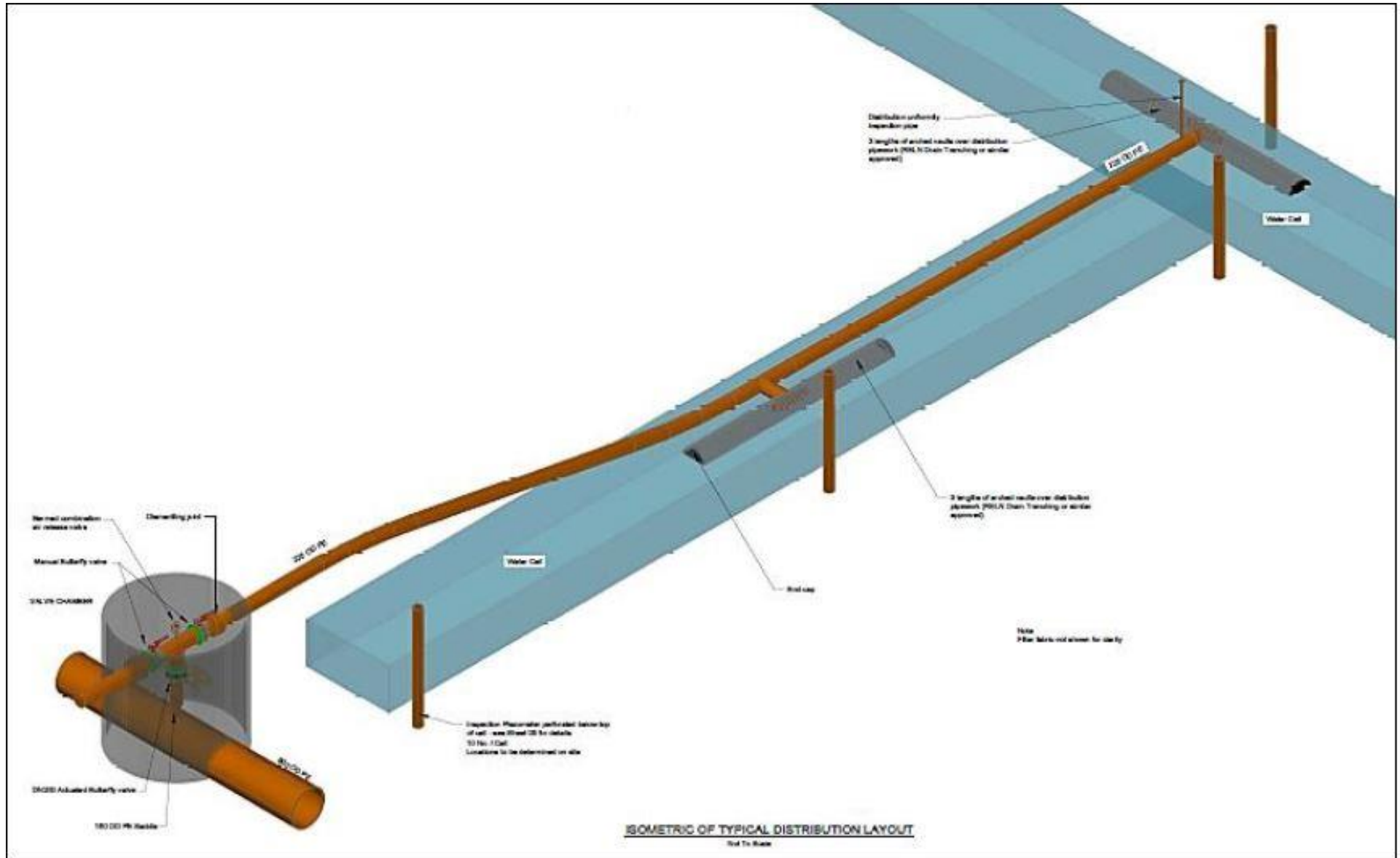
Installed at base of revetment wall

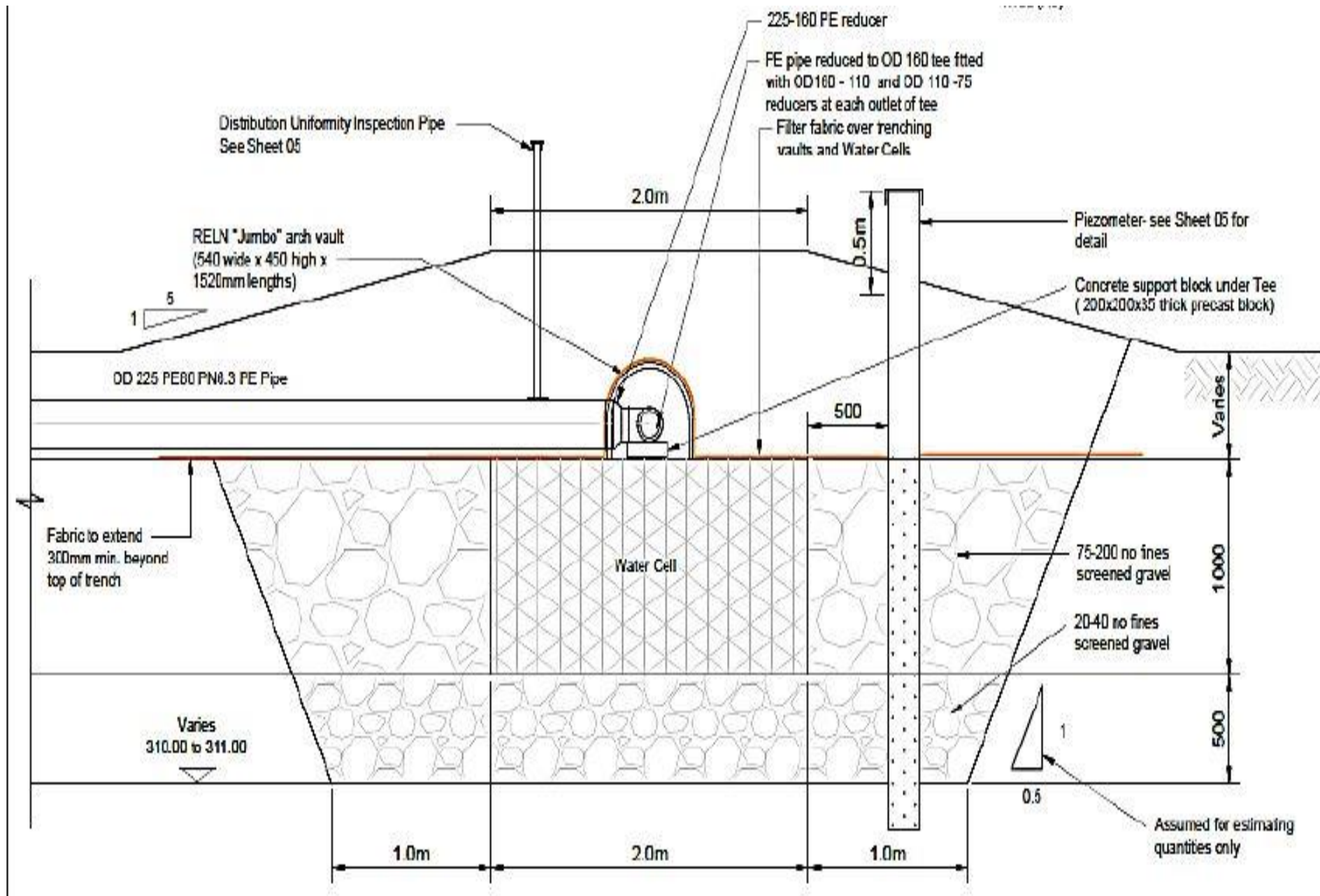
Monitoring pezmeters with cabling
installed back to UV room. See
Specification for details

Drain down field. Location
to be confirmed on site
with the Engineer

OD 180 PE
drain line



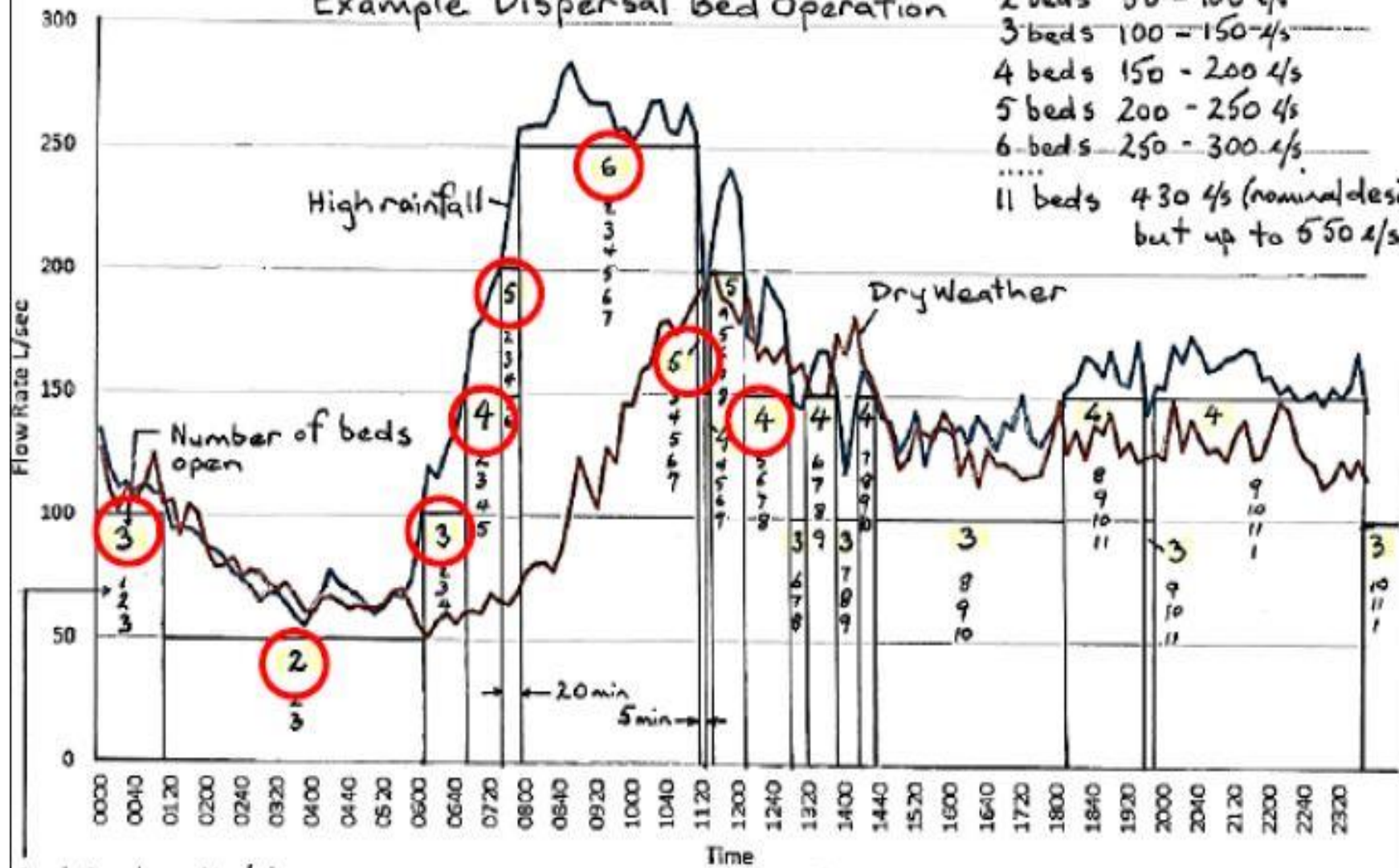




Shotover Diurnal Flow Pattern
 Example Dispersal Bed Operation

Example Control Setting

- 1 bed up to 50 l/s (nominally 40 l/s)
- 2 beds 50 - 100 l/s
- 3 beds 100 - 150 l/s
- 4 beds 150 - 200 l/s
- 5 beds 200 - 250 l/s
- 6 beds 250 - 300 l/s
-
- 11 beds 430 l/s (nominal design, but up to 550 l/s)



Bed Number that is open

— 03-May-17 — 29-Apr-17





















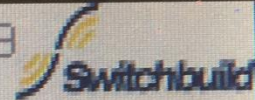






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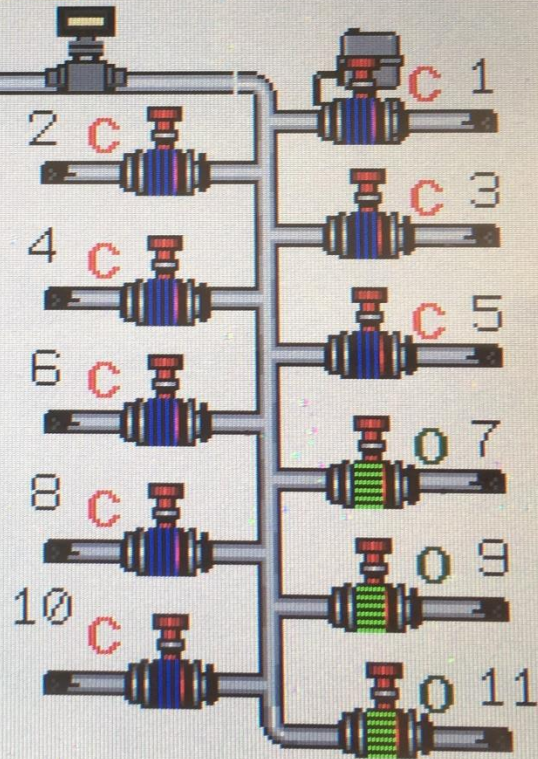
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Pressure 312.39 RL
Pressure 555 kpa
Flow 112 /s

Valves Open
Required 3
Actual 3

Power Status
Zone 1 OK
Zone 2 OK
Zone 3 OK







An aerial photograph of a wastewater treatment plant at dusk. The plant features several large circular tanks and rectangular basins, some of which are illuminated by bright lights. A building with a dark roof and several windows is also lit up. The facility is surrounded by trees and a road with light trails from passing vehicles. In the background, a large mountain range is silhouetted against a twilight sky with a gradient of purple, blue, and orange.

QUESTIONS?