

Recommended gradients for drain-lines are as follows:

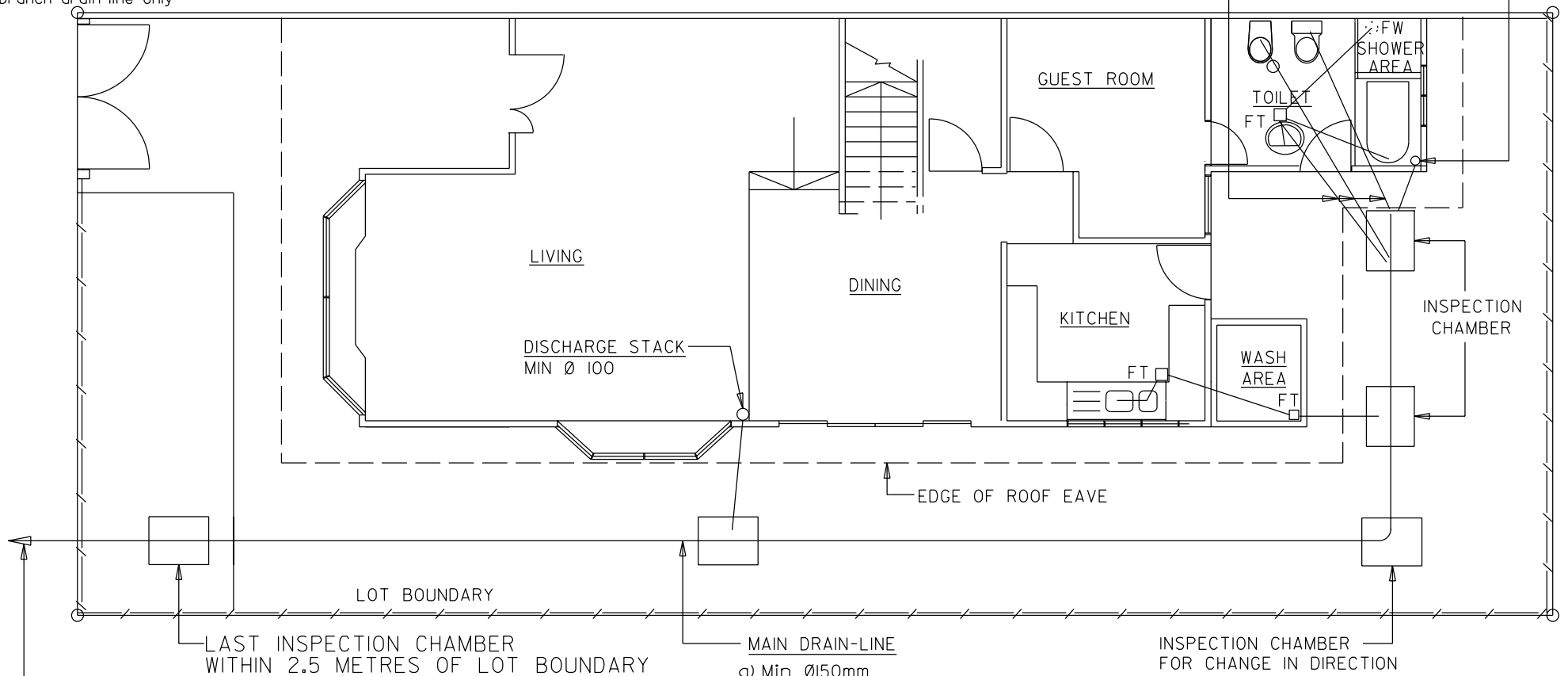
Dia.	Maximum Gradient	Minimum Gradient	Maximum Gradient at upstream of Backdrop or tumbling bay
100mm*	1:20	1:60	-
150mm	1:30	1:90	1:70

* For branch drain-line only

BRANCH DRAIN-LINE

- a) \varnothing 100mm - Max 10m
- b) \varnothing 150mm for connection to IC with backdrop/tumbling bay (refer to clause 3.1.3.1(b) & details in Drawing no. 3-3) - max 20m

MIN \varnothing 100
VENTILATING STACK
TO FIRST INSPECTION
CHAMBER



- MAIN DRAIN-LINE
- a) Min \varnothing 150mm
 - b) Max distance 50m
 - c) Significant differences in invert levels between ICs
 - Tumbling Bay / Backdrop can be provided
 - d) Inspection Chamber to be provided for :
 - Change of direction
 - Change of gradient
 - Change of pipe diameter / material

CONNECTION TO MANHOLE - MIN. \varnothing 200mm
CONNECTION TO SEWER VIA RAISED/Y-JUNCTION - SAME SIZE AS THE SEWER (MIN. \varnothing 150mm)

LEGEND

- | | | | | | |
|--|-----------|--|----------------|--|----------|
| | WC | | FT FLOOR TRAP | | Longbath |
| | BIDET | | FW FLOOR WASTE | | SINK |
| | WASHBASIN | | BT BIDET TRAP | | |

ALL DIMENSIONS ARE IN mm.

LAYOUT OF SANITARY DRAINAGE SYSTEM