

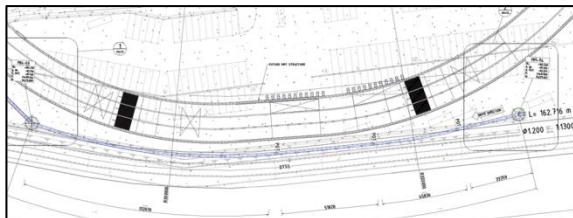
# NEWater Pipe Project Singapore



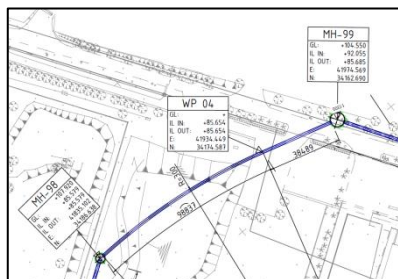
T3003 ADVANCED SEWER DIVERSION - NEWater Pipe and Effluent Outfall Pipe

Ed Züblin AG – Pipejacking Division based in Singapore has signed a contract with Land Transport Authority (LTA) of Singapore for the Advance Diversion Works for Sewer and Water Pipes. The contract comprises the construction of 57 shafts/manholes and a total tunnel length of 5,600 meters by pipe-jacking method.

Jackcontrol AG was involved in two drives. By using the Hydraulic Joint, the curve of 300 m could be realized with a regular pipe length of 3.0 m without reduction of jacking forces.



SITUATION: MH94 – MH93



SITUATION: MH99 – MH98

## AT A GLANCE

<b>Project name</b>	T3003, MH94 – MH93 and T3003, MH99 – MH98
<b>Project location</b>	Singapore
<b>Purpose</b>	Sewers
<b>Completed</b>	2016
<b>Specialties</b>	– Tight curve – Big overburden
<b>Total length</b>	261 m / 139 m
<b>ID</b>	1200 mm
<b>OD</b>	1490 mm
<b>Alignment</b>	Right curve
<b>Min. radius of curvature</b>	300 m
<b>Pipe material</b>	GRP lined concrete pipe
<b>Pipe length</b>	3 m
<b>Geology &amp; groundwater</b>	Cohesive Soils and Marine Clay with some rubbish zone
<b>Hydraulic Joint</b>	JC125 / double loop. Admissible jacking force 2700 kN
<b>Guidance system</b>	VMT U.N.S (GNS Mode with Gyro)
<b>TBM</b>	Herrenknecht AVN1200
<b>Owner</b>	Land Transport Authority (LTA) of Singapore
<b>Consultant /Designer</b>	FC fongCONSULT
<b>Contractor</b>	Ed Züblin AG – Pipejacking Division
<b>Pipe manufacturer</b>	Züblin Precast Industries BHD SDN

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