



# Lovemore Bros.

MACHINE MOVING AND RIGGING CONTRACTORS

January 2012

Simply getting on with it.



## LOVEMORE BROS ERECTS AESTHETIC TOWER ON BRIDGE SPANNING N3

The weekend of January 15<sup>th</sup>, 2012 saw the erection of a 33 ton, 34 metre long tower tilted at an angle of precisely 14° giving the new Tshelinyama pedestrian bridge across the N3 freeway near the Marianhill Toll Plaza an appealing aesthetic appearance.

Lovemore Bros was approached by the contractor JT Ross to transport the tower from the local manufacturers in Pinetown to the site using its specially imported extendable trailer. There, two cranes hoisted the tower into position under the supervision of the rigging staff, also from Lovemore Bros.

According to Henry Laird, Contracts Manager at JT Ross, the Tshelinyama Bridge was built for the safety of the local community – and motorists – who cross the N3 Highway on foot to reach their places of work in Westmead, and further on in Pinetown.

“There had been a number of deaths so to avoid more tragedies a decision was made to build the bridge similar to the Blackburn pedestrian bridge en route to King Shaka Airport. The contract includes several kilometers of concrete pavement accessing the bridge on both sides,” said Laird.

Holding the tower upright are a num-



ber of steel cables adding additional appeal to the bridge's aesthetics.

Vaughan Billson from Lovemore Bros Mechanical Division said two cranes were used to position the tower using the “top-and-tail” method. Once it was upright, the tower was rigged at the 14° angle and held in place while the cables were attached.

“As in all rigging jobs involving heavy, cumbersome objects, extreme care had to be taken to avoid any mishaps and get the job done right first time. This takes a lot of advance planning and homework which led to the successful implementation.”

The bridge was designed by John Anderson from Vela VKE Consulting Engineers in Cape Town and manufactured by JH Gouws, a Durban fabrication and precision engineering company.

**Once the tower was slanted at 14° cables were strung to hold it in position**



**It took some considerable rigging expertise to lift the tower into position and then slant it at precisely 14° giving it the aesthetic appearance for motorists and pedestrians**



Rigging

Machine Moving

Abnormal Loads

Mechanical Projects

Warehousing