

# Harris Street Service Relocations



**VALUE:** \$1,000,000.00 **LOCATION:** Wellington Cental Business District  
**COMPLETION DATE:** December 19<sup>th</sup> 2003 **CONTACT:** Byron Roff (Wellington City Council)  
 04 801-3283 / 027-232-4291 Craig Hiddleston (Tri-flow Ltd) 04 388-8599 / 021-383-670

## Scope of Works

The scope of this contract was to move all the council's and utility operators services to make way for a shaft that was to be constructed for two pits 8 to 12 metres deep. These pits are to be used as entry and exit pits for a 1500 dia drill to install 1500 dia concrete storm water pipe which will correct the flood problems of the Wellington CBD area.

Project	Value	Project Details
<b>Pipe Laying</b>	\$950,000.00	Install 60 metres of 1200 dia concrete storm water 3.5m deep / Install 56 metres 315 dia HDPE sewer rising main / 56 metres 315 dia HDPE sewer gravity line 1.6m deep / Install 56 metres 180 dia HDPE Nova Gas / Install 25 metres 225 dia HDPE sewer gravity line 1.5 deep / Install New power, Telstra, Telecom 150 metres / Install 16 new manholes 1050 dia to 1800 dia up to 3.5 deep / Dewatering with 10 inch, and 3 6 inch pumps with water table at 1.1 deep / Sheet piling the trench line to seal the water out. Install 17.5 meters of 1500mm dia concrete 9 meters deep.
<b>Pavement &amp; Surfacing</b>	\$85,000.00	Overlay roadway to level out camber (250 square metres) / completely reinstate the intersection and roadway with 70 mm thick Asphalt (1000 square meters) / Reinstating footpaths with pavers and asphalt (200 square metres) / Build new Traffic island including kerb and channel etc...
<b>Structures</b>	\$135,000.00	Cut the top of 3 1200 dia concrete pipes to get under services and construct a new lid that created a seal. / Build 45 degree bends out of 1200 dia concrete. Build manhole chamber with sump structure in bottom of manhole 12 metres deep.
<b>Health &amp; Safety</b>	\$45,000.00	We are a company committed to Health and Safety. This project involved excavating under 33000 volt lines, high capacity telecommunication cables, high pressure gas lines, deep trenches, large volumes of water to contend with, confined space entry, high public volumes and interests, large traffic volumes, heavy machinery, crane work,.... All of which was dealt with appropriately and without incident.
<b>Traffic Management</b>	\$18,000.00	Compiling of TMP that included maintaining the flow of traffic and pedestrians for the area as it is in the Wellington CBD. Obtaining temporary road closures and road opening notices. One lane traffic and Stop/ Go procedures
<b>Environmental Management</b>		With the construction of the 1200 dia pipeline in the second service relocation contract we were working in ground that had a 1.1 metre deep water table. To add to that the 1200dia line that we were moving was laid with no rubber rings and had gaps in it of as much as 100 mm. The work site was 50 metres away form the Wellington harbour. We had to bring in huge pumps to contend with the water that came in through the 1200 line. The discharge from these pumps was put back

		into the existing 1200 dia pipe further up the road. Because the existing line had sediment in them the water going into the sea was murky. This created a murky cloud in the Wellington Harbour. In a proactive movement we invited Wellington City Council and Wellington Regional Council down to assist us in combating the problem. We created a filtration system in the pipe involving filter fabric and straw bales. The system worked and satisfied the Wellington Regional Council. There were no notices issued.
<b>Tender Price:</b>	\$537,000.00	
<b>Final Contract Price</b>	\$1,100,000.00	The original tender was for only one entry pit however because of time constraints to the overall project we were asked to move the services for another pit. This in turn raised the costs to the project.
<b>Sub-Contractors</b>	\$300,000.00	Tatana Contracting was subcontracted to us over the entire of the project. All of their work was of hourly equipment hire and an hourly labour nature.
<b>Contractors Performance</b>	The contract was completed on time and to budget including the variations that were issued because of unforeseen circumstances. We were asked at one stage to accelerate the program to keep the overall project on time. This was asked of us because the tender for the service relocations was let 2 months late due to a staff shortage in the Wellington City Council. We agreed to accelerate the program and brought in additional crews to work 24 hours a day until the services were moved for the first pit. Our performance brought the overall project back into time line.	

<b>Commencement dates</b>	<b>Completion Date</b>	<b>Original Due Date</b>	<b>Extended Due Date</b>	<b>Explanation of Differing Dates</b>
August 25 <sup>th</sup> 2003	December 19 <sup>th</sup> 2003 <i>*A Variation was issued in July 2004 to install Manhole chamber 12 metre deep</i>	October 13 <sup>th</sup> 2003	January 12 <sup>th</sup> 2004 (This included all of the time extensions that had been granted throughout the project for additional works that were not part of the original scope of works or that were unforeseen circumstances).	The dates differ because the project doubled in size with two service relocation contracts instead of one. A lot of auxiliary work that was not part of the tender, but was necessary; to complete the overall project was issued to us in variations. This work was of a nature that needed to be done for us to complete the works in our scope. All of this added time to the completion of our project. The value of the additional works \$250,000.00.