THURSDAY, APRIL FOR VICTORIA

eath 8 hoto Wa taken just months collapse reveals major flaws before The





**ALEXANDER JONES** 



MARIE-FAITH FIAWOO

lapsed killing three people was riddled with cracks, photographs taken just four months before the tragedy reveal. Photographs obtained by the Herald Sun are now expected to form a crucial part of investigations into last week's tragedy.

Engineering experts have said the "significant" cracking would have made the wall unable to resist Thursday's

A9A4

Stephen Drill

strong winds. The photographs, taken on December 12 last year, are the only images in the public domain that show the condition of the wall before its collapse.

The tragedy claimed the lives of three pedestrians on Swanston St — Melbourne siblings Bridget and Alexander Jones and French woman Dr Marie-Faith Fiawoo.

remaining sections of the wall under instruction from authorities in the hours after the incident.

WorkSafe also confirmed it had visited the Grocon building site in 2011 to monitor work practices, but could not say whether the wall was inspected.

Dr Con Adam, senior research fellow in the school of civil engineering at Monash University, said the cracks caused the wall's collapse.

"That picture tells us a lot about the wall. The wall as a whole was under sheer failure, this renders the wall unable to resist wind loads," he said.

"The wall, if it was designed properly, should flex with the wind and go back without collapsing.

"If there is a crack in the bottom of the wall it just couldn't resist the wind load. That crack at the base of the wall was the weakest point."



more give, less take

Small business. We see you.

"My business a hobby, now it's my life." started as



SECOND

SECOND

# 4 NEWS THURSDAY, APRIL 4, 2013 HERALDSUN.COM.



# Photos laws in reveal Mai

ams.
the footpath, "she said.
the footpath," she said.
the footpath, "she said.
The Herald Sun undergrads investigations have
ands investigations have
ands investigations have
and foundations of the wall,
d foundations of the wall,
d foundations of the wall,
and foundations so the wall,
d foundations of the wall,
d foundations of the wall,
d foundations of the wall was initially
thing like a sail was initially
thing like a sail was initially
thing like a sail was initially
the glike a sail was initially
string like a sail was initially
the photographs
oped the photographs
oped the photographs
oped the photographs
oped the fatal collapse.
The Bureau of MeteorThe striction, at
accorded at the St Kilda
ecorded at the St Kilda
ecorded at he saiton, at
active weather station, at
active weather station, at
active weather the wall fell.
The strictural Colman of the Structural Colman of the Structural Col-

tion had also the ough parts of the ough parts of the he concrete founds been chipped. I been chipped. I been chipped of health and of health and of health and orty attended the could not say if the could not say if the

request related to request related to solver the safety of solver the using who were using ladders to erect the ladders to erect the g on the site and the g on the site and the system while the



# U



Rebekah Cavanagi

tragic farewell

gathers for

9

School

family

**Triple tragedy:** (clockwise from above) The scene of the Swanston St wall collapse yesterday; inspectors investigate the site; photographs of the wall, taken four months ago, reveal cracks in the lower bricks and show that the hoarding is higher than the wall. Pictures: TIM CARRAFA,



# The school memorial comes as investigations into the triple fatality began at the site yesterday. Grocon in spectors scoured the former Carlton United Brewery site, taking photos, collecting soil and rock samples, and measuring remaining foundations of the wall. An excavator was also used to dig a Im-deep hole adjacent to the wall, directly where it weakened and fell. WorkSafe, the State Coroner, Victoria Police and Grocon, which owns the site, are all conducting separate investigations. Anthorities are remaining tight-lipped about their inquiries and whether anyone had done anything wrong. Roberto Cimino, who has been in the architecture and construction industry for 20 years, visited the site yesterday in an attempt to reach his own conclusions about what happened. He added that "cutting comprehas been erected as a tribute and is now laden with flowers, candles and other mementoes. Dylan McEune, 19, had been too distraught to visit the site to say goodbye to his mate, Alexander, known to friends as "Zandeer", until yesterday. Tit is so hard to comprehend why this has happened, and that they are gone," Mr McEune said. "Everyone is still in shock and trying to come to terms with this." Friends and former colleagues of Dr Fiawoo, a Monash University research fellow, were just as shocked as news of her death spread around France yesterday. Speaking from Dr Fiawoo's hometown of Paris, down on top of them last Thursday. Talented French researcher Marie-Faith Fiawoo, 33, was also killed in the tragedy. THE Montmorency community will gather today to remember the Jones siblings — a week after a freak wall collapse claimed their lives. Montmorency Secondary College will open its doors to students, friends and family of former students Alexander and Bridget Jones between 11am and 3pm. Alex, 19, and Bridget, 18, were walking along Swanston St in Carlton when a brick wall came crashing down on top of them last Thursday. A significant crack in the wall would have caused it to collapse under strong winds Westerly gusts of 102km/h were recorded at St Kilda, the nearest accurate wind station, at 2.59pm last Thursday The mortar used at the time the wall was thought to have been built was lime-based, which loses strength over time Steel columns, or straps, could have cheaply strengthened the wall WorkSafe inspected workers putting up a wooden hoarding on the site on October 12, 2011 The wooden hoarding was 300-400mm higher than the brick wall MONY MO

Alphonse Finel, the director at Onera, the French aerospace research facility where Dr Fiawoo worked as a PhD student from 2004 to 2009, told of her "true kindness".

He described her as a "rigorous scientist".

"We remember her as a profound, honest and rigorous scientist, deeply involved in her research activities, yet very sensitive to the relation with her fellows and colleagues."

Dr Fiawoo's family are planning to make the 22-hour flight from Paris to Melbourne later this week to bring their daughter's body home.

Dr Fiawoo had been working as a postdoctoral research fellow in the materials engineering department at the university's Clayton campus since 2010.

A Monash spokeswoman said the university sand prayers go out to Dr Fiawoo's family, work colleagues and friends," the spokeswoman said.





DECEMBER 12,

1