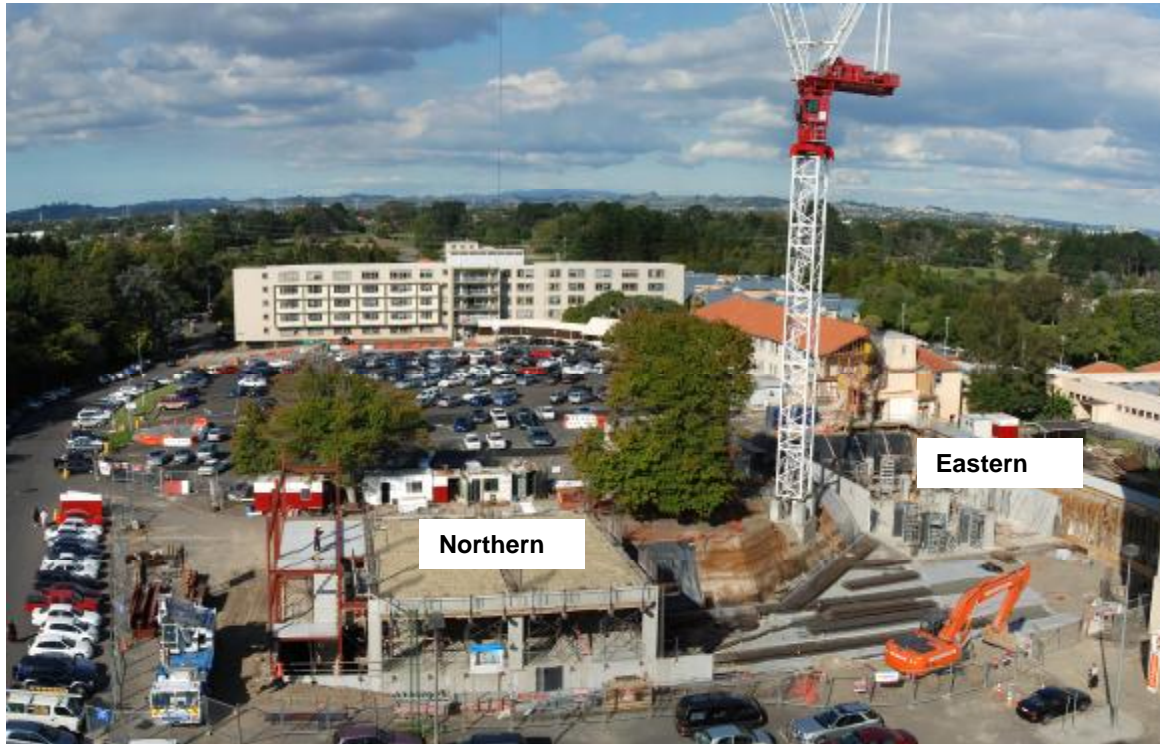


## Construction Update - New Ward Block



### Northern Wing

- The Northern Wing is taking shape.
- Concrete floors and columns are now in place for the first two levels (Basement and Ground).
- Concrete will soon be poured for the level 1 floor.
- The Northern and Eastern Wings will continue to grow until they reach 6-stories.

### Eastern Wing

- The majority of excavation has been completed.
- The corner of Building 7 continues to be demolished to make way for the new ward block footprint.
- Pre-cast cladding wall panels are being placed on the exterior walls of the Eastern Wing.
- The next stage is to pour the concrete for the remainder of the basement, along with reinforcing beams.

Contents: Adult Medical Centre (AMC) Lobby nears completion. Update New Courtyard. Volunteers count down opening of NEW AMC Lobby. A rewarding and challenging project. The new ICU - lots of people and lots of effort. Check out the construction photos. Upgrade for Tiaho Mai. What's happening in the AMC Carpark (near the Support Building).

## Adult Medical Centre (AMC) Lobby nears completion

Now that the hoardings have been reduced staff, patients and visitors can watch the finishing touches being made to the new AMC lobby.

Many have commented on the natural vinyl timber floor, while others are impressed with how much light floods into the area.

A couple of visitors were engrossed by the work happening in the new courtyard. They thought it was a great idea to have an outdoor area where people can enjoy some time out.

The new lobby will be ready for use from mid April 2008, however there will still be people (builders and contractors) working within the area.

Ongoing jobs include construction of a new accessible toilet and baby change area, completion of the Security Office (next to the main entrance) and installation of the new information desk in the middle of the lobby.

A new patient waiting area will be located across from the main entrance (in DOU's old space). Discharged patients can wait in this area until they are picked up.

***Did you know that the original AMC lobby and building was opened in 2002 by former Manukau Mayor Sir Barry Curtis and Retired Nurse Esme Green.***



***Timber-look vinyl***



***A new patient waiting area will be on the other side of the wall (shown above).***

## Update - New Courtyard



- The courtyard continues to take shape.
- The planter boxes have been installed and paving and landscaping has commenced.
- The Courtyard will OPEN mid May 2008.

***Paving of the courtyard has commenced.***

## The countdown begins!

The volunteers at Middlemore Hospital have been especially busy since the tunnels and corridors project began 19 months ago. There's been a marked increase in requests for way-finding and signage, ongoing changes to access routes and occasional noise and vibration caused by the building works.

"It's been a challenging few months," says volunteer coordinator Faye Robinson-Legge. "It would be fair to say that most of the volunteers have been counting down the days to when the new AMC lobby opens."

The new AMC lobby will be ready for use from mid April 2008, however Faye and her team won't be moving until the new information desk is in place (mid May 2008).

"We can't wait," says Faye. "Our new circular desk will be located in the middle of the new foyer with great visibility of people approaching from every direction. A natural timber strip from the main entrance will guide the visitor straight to the Information desk. It's going to make a huge difference to the numerous visitors who come through our doors, the majority of which are sick, worried, frantic, happy, sad, aged and in a hurry."

"The other noticeable improvement will be the lighting. We are so used to having fluorescent lights directly above us. The natural light will make a huge difference."

Faye says the Information desk will be staffed 7 days a week, 12 hours per day, with up to 3 volunteers on a day shift.



**Volunteers**

Did you know we have 75 volunteers at Middlemore Hospital ranging in age from 16 to 78 years.

Our volunteers come from a variety of backgrounds ranging from local school students, retired nurses and businessmen, a part time school teacher, housewives, retirees, medical and university students.

## A rewarding and challenging project

Hawkins Project Manager Mike Barber and his team have been building the new Intensive Care Unit for the past 9 months and with over 2 months to go until completion are looking forward to the official 'opening' on 24 June 2008.

"This has been a rewarding and challenging project to be apart of," says Mike Barber. "The most challenging aspect was carrying out the work when we had services operating next to us, above and below us."

To achieve this, careful planning and execution of the works had to be considered.



*Hawkins Project Manager Mike Barber*

"We couldn't just rush in and tear down the walls," says Mike. "Before work could start we had to establish access for our workers and materials, consider the amount of noise and how to limit it, dust and debris and how to control it and water tightness, to keep the surrounding Hospital departments dry.

"Methodologies were developed and ongoing risk sessions were held to determine what we could and couldn't do at particular times.

"A system of 'shutdown notices' were also issued, which informed the client of when and where we needed to carry out the works that would effect the running of the hospital. To date nearly 50 shutdown notifications have been submitted to carry out construction activities on the new ICU. This pre-planning has been vital to ensure day to day hospital activities wouldn't be adversely affected."

One of the main challenges for the construction team was working in Emergency Care's ceiling space to install and test the new underslab drainage needed for the new ICU. Due to the ongoing operation of this Department planning was critical.

Shutdown notices were issued giving full details of the work being carried out and regular meetings were held with the EC Nursing Manager Mary McManaway, EC Nursing and Medical Staff and the plumbing sub-contractor. Overall the work took 20 weeks to complete.

Mike and his team would like to thank everyone directly or indirectly affected by the ICU building works. "We couldn't have successfully carried out the work if it wasn't for your cooperation and assistance," says Mike.

## **NEW Intensive Care Unit (ICU) - 'Lots of People and Lots of Effort' by Process Improvement Manager Marianne Scott.**

Opening a new facility of any type or size involves many people, their experience, creative ideas, patience, time commitment and hard work to make it happen.

This is evident at each stage, from business case development through to design, systems change, construction, fit-out, communications, equipment purchasing, testing and installation, blessing and opening ceremonies and finally moving people, patients and other items around the hospital.

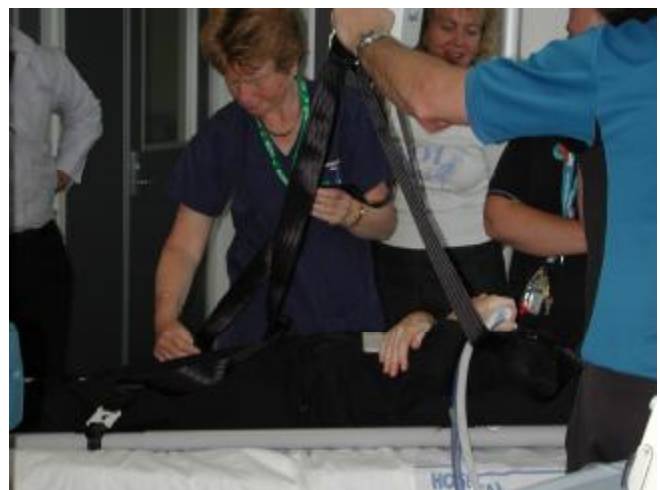
Throughout this seemingly endless list of 'to-do' jobs is the opportunity to see the various operational processes in a new light, understand how the different services relate to one another and get to know the vast number of people that contribute directly or indirectly to patient care, both at an individual and service level.

Our priorities are always service driven and directed towards the best solution, given known constraints of the floor space and budget. This has meant some creative thinking and challenging what we do today and how best to manage this in the future. Some of our thinking has stretched to installing infrastructure that will enable clinical care changes for the next 15-20 years.

One such example for the new ICU was trying to make an informed decision about lifting patients on a day-to-day basis and what equipment or processes would be the safest for patients and staff. Sound simple? Not really.

Our first priority was to define the different clinical scenarios where lifting patients would be required. This was done in consultation with ICU staff, physiotherapists and Medical Radiology Technicians (MRT's). The next stage was talking to the CMDHB Manual Handling expert to assess our equipment options.

Once that was completed we needed to confirm the safest option and then find out if this would cause any issues for other design features within the ICU.



*The Multi-disciplinary team test out the ceiling hoist for the new ICU.*

## 'Lots of People and Lots of Effort' (Continued)

We determined that some lifting processes would not change, but others needed a better alternative to reduce the amount of manual lifts performed by staff.

The preferred equipment option was a ceiling mounted (transferable) hoist, however in the same bed space, affixed to the ceiling were also lights, fire sprinklers, 2-arm medical service pendant, privacy curtains and tracks for hanging IV trees, not to mention all those pipes and cables hidden behind the ceiling tiles. How was it all going to fit in?

First we met with the architects and engineers to check what was currently in place and then confirmed that the mounting design for the medical services pendants wouldn't obstruct the hoist tracks. We then came up with a design that looked like it would work, but would it really be OK in a practical sense and would it be safe?

To find out we asked the supplier to set-up a test system in the new Neonatal Unit, where they had a similar medical service pendant installed. We then invited our MRT's (Medical Radiology Technicians), physiotherapist, senior ICU nurses, biomedical engineering and Manual Handling Advisor to test out the system.

We scenario tested a spinal patient transfer with ventilator, bed to chair transfer and x-ray processes to confirm that this system would be safe. This process did enable us to confirm that the ceiling mounted hoist system would be the best option and reduce the risk of 'nasty surprises' that assumptions can cause.



The ICU team is very grateful for the input of the many people who have worked with them over the last 2 years, from the first ICU design meeting to the stage where staff and patients will soon move in.

*The new ICU bed space*

# Construction Photo Page



## Upgrade for Tiaho Mai

In the next few months Tiaho Mai, in particular the Tui Ward will undergo significant building changes to accommodate a new inpatient 'Model of Care' based on patient recovery and integrated care.

The Tui ward was chosen because of its current design and ease of conversion to enable full implementation and review of the new Model of Care.



*Current Tui Female Wing*

"Providing a safe, calm and supportive environment are important aspects of a person's care," says Process Improvement Manager, Patrick Long.

The refurbished Tui Ward will have individual bedrooms and ensuites for all service users, a specialised low stimulus area, self care kitchen and laundry and a 3 bedded Intensive Care Area (ICA) on the end of the ward with it's own lounge & dining area, seclusion suite and outside courtyard.

Changes to the central area will also focus on modifications to create spaces that are safe, functional and maximise privacy as well as minimising disruption to the unit, especially on days when court hearings are in session.

Kuaka (Intensive Care Unit) and Huia Ward will also be refurbished. This will improve the current environment for both staff and service users and enable, within the limitations of the existing building, the implementation of many aspects of the new Model of Care.



*Tui Reception*

Staff and patients from the Tui Ward will relocate to C-Floor (old Women's Health Building), while building works are being carried out.

C-Floor will be refurbished to accommodate Tui's requirements.

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## The Daily Operations Unit (DOU) is on the move for the FINAL time

On Sunday 20 April 2008, the Daily Operations Unit (DOU) will be moving for the final time to a new office, in the new AMC lobby (next to the bottom of the ramp leading to the rainbow corridor).

## What's happening in the AMC Carpark - near the Support Building

For those of you who park in the AMC carpark or work in the Support building you will have noticed the diggers working on the kerbs and islands in the carpark near the Support Building.

The above works are part of the new carpark layout, which will create more space, extra carparks and improved flow in and out of the area.

This work may cause disruption to the entranceway to the staff carpark and is expected to last another 2-3 weeks (early May 2008).

Road markings will be put in place for your safety.

The upgrade works to the whole car park will be ongoing and dates will be notified as they become available.

Many thanks for your cooperation and patience.



***Kerbs and Islands are being worked on.***