



Main Wharf
Construction Period: Jan – Nov 2016

Scope of Work

Main Wharf Eastern Entrance:

- New tourism building at the main wharf eastern gate for cruise ship visitors and port security staff.
- Refurbishment and reinstatement of existing port gates.
- Footpaths and pedestrian crossing inside the port gates to improve safety.
- Landscaping, seating and lighting improvements.

Progress Update

Phase 1 – Tourism Building:

- Continued work on the 16-meter retaining wall.
- Tourism Building pre-cast concrete wall panels underway.

Works Expected This Month

Phase 1 – Tourism Building:

- Repairs to the existing port gates continuing.
- Tourism Building foundation works commence.
- Works to install the soak away commence.

Traffic Management

- A 60-day trial Traffic Management Plan by GoV to improve vehicle movements on cruise ship days commenced on 29th May 2016.
- Traffic management at the main wharf by everyone will be critical to avoid congestion, particularly on cruise ship days. **Please adhere to all instructions from Vanuatu Mobile Force; Police and Port security staff.**
- Heavy vehicle movements associated with the VTIP works will be scheduled on non-cruise ship days to minimise disruption.

Public Health & Safety

- Due to the Traffic Management Plan there is a large volume of people inside the port gates on cruise ship days, it is imperative that all personnel inside the Port gates adhere to good safety practices.
- Access to the main wharf construction site will need to be maintained at all times. On Cruise days access is from the Wharf Road construction gates.
- Site security fencing has been erected for public safety. Construction works will be carried out within the fenced area. Large deliveries to site will be scheduled outside of peak hours and on non-cruise ship days.

Contractor – Key Contact

Hawkins Infrastructure Ltd, Pacifica Building, Rue de Paris.
Project Manager – Susan Temple (s.temple@hawkins.co.nz)



Fatumaru Bay Park
Construction Period: Jan – Nov 2016

Scope of Work

Chantilly's to Anchor Inn:

- Upgrade to Fatumaru Bay Park open spaces and provide access to the water.
- Upgrade landscaping, lighting, furniture and playground.
- Protect the coastal edge with a rock revetment to minimise erosion.
- Resurfacing carpark opposite TVL House.
- Improved drainage through the park.

Progress Update

- Sea access steps (#1) completed.
- Phase 3 rock revetment works commenced.
- New footpath works almost complete.
- Park works timber edging complete in Phase 2.
- Foundations for park seats and tables commenced in Phase 1 and Phase 2.
- Total closure of TVL Carpark.
- Electrical cabling installation commences.

Works Expected This Month

- Security site fencing installed and site access adjusted for Phase 3 and Phase 4 works.
- Sea access steps (#2) completed.
- Sea access steps (#3) formed.
- Continuation of rock deliveries and placement of rock revetment for Phase 3.
- Playground equipment removed.
- Beach clearing and excavation commences in Phase 4.

Rock Revetment

Fatumaru Bay is one of the most accessible beaches in town for locals so the objective of the VTIP is to protect the coastline; enhance the existing beach and upgrade the playground and picnic area for people to enjoy. The previously existing rock at Fatumaru Bay is coral rock and has no filter layers, meaning that over time the soil holding the coastal trees and sand from the beaches is gradually eroded. The coastal protection works are provided to minimise this erosion of soil and sand which may occur in storm conditions.

Research has been undertaken to determine the most viable options for the coastal protection works. This included what type of rock to be used, the impact of waves, storm surge and sea level rises. It should be noted that following TC Pam the top layer of coral rock at Fatumaru Bay was in generally good condition, but finer rocks below had disappeared in some parts of the strip. Consequently, the VTIP designed coastal protection is to add new, larger armour rock anchored into the seabed, to protect the coastline.

The coral rock was selected for a number of factors including its availability on Efate and the volume of rock needed for the project. The cost of an alternative suitable rock is prohibitively expensive and there is not enough on Efate for the full scope of the VTIP. The coral rock being used is tested for its density and hardness, and any rock damaged during the process is rejected and not included in the revetment. It is acknowledged that coral rock will require some maintenance over time and following future storm events, and a maintenance management plan is required.



Nambawan Café area
The Natapoa deck behind the Public Library receives the last coat of oil.



Seafront
Concrete panels will be placed on the outside of the sea wall and back filled with concrete.



Seafront Environmental Audit
Russell Nathan-Wong - Health, Safety and Environment Officer, Hawkins
Uravo Nafuki - Senior Environment and Social Officer, Dept Public Works
Christy Haruel - Environment and Community Officer, VISSP

Progress Update

Seafront Park (Near Nambawan Café):

- Car park concrete pavement, kerb and channel to Kumul Highway 70% complete.
- Timber garden edging installed, coral chip laid and steel garden screen prototype commenced.
- Commence excavation for new sea steps to replace the water taxi steps.
- Continued excavation behind seawall.
- Capping beam removed and sheet pile cut to length.

Works Expected This Month

Phase 3a – Near Nambawan Café:

- Continue excavation on landside of seawall.
- Pre-cast sea step moulds commences.
- Concrete slab for public toilets poured.
- Tie-back anchors inspected.

George Kalsakau Drive

- George Kalsakau Drive (GKD) is being upgraded under a separate project: the Port Vila Urban Development Project (PVUDP). This is not part of the Vanuatu Tourism Infrastructure Project (VTIP).
- During July the footpath between the current GKD works and the VTIP project will be repaired, this will mean reduced access to this part of the area while the footpath works are under construction. Access from the Seafront to the Market house will be via Kumul Highway in the short term.
- This part of the PVUDP project is expected to be completed by the end of July. For enquiries contact CCECC Ltd by email: contact @PVUDP.com.

Concrete Sea Wall Panels

The project includes the refurbishment of almost 485-meters of the sea wall. Considering the storm events that have hit Vanuatu the seawall is in a reasonable condition for refurbishment. The current works will strengthen the sea wall against future storm events and this requires a significant amount of work and a new methodology for Vanuatu.

The process involves:

- excavating on the landside of the current sea wall to install reinforcing in preparation for hanging the concrete panels (see above) and in-situ concrete
- cleaning the rust off the current sheet piles to prepare a good surface for the concrete that will then be poured on both sides of the seawall sheet piles
- cutting off the concrete beam on the top of the sea wall so that the concrete panels can be placed on the sea side of the seawall
- place the concrete panels in alignment and pour concrete between the panel and the current seawall sheet piles
- install a new concrete beam on top of the concrete panels.

There are approximately 250 panels to be made and installed and they are generally 2.1mtrs x 2.4mtrs in size.

Progress Update

Seafront Park (Near Seafront Stage):

- Construction fence extended into Phase 2 to commence park works.
- Public toilet pre-cast wall panels delivered to playground area.
- Park works continue with the start of the refurbishment of the footpath between VTIP and George Kalsakau Drive.
- Construction fence installed around Playground area and playground equipment demolished.
- Landside of sea wall concrete refurbishment commenced.
- Park seat foundations in Phase 1 complete.

Works Expected This Month

Phase 1 – Near Seafront Stage:

- Installation of the precast panels for the sea wall commences.
- Footpath on GKD continued
- Stage ramp walls demolished, reformed and poured.
- Toilet block foundations poured.
- Septic tanks and soak away drains commences.

Phase 4: Playground area to the Market House

- Work has commenced in Phase 4 with preparation for the installation of the septic tanks and soak away for the public toilet near the existing playground area.
- The works in Phase 4 extend to the road beside the Market House and include refurbishing the seawall in front of what is commonly known as the Ifira Green Space. Access to this area will be restricted, with limited vehicle access to the green space as Ifira Trustees intend to reinstall the fencing around this area.
- The sea wall refurbishment in this area is expected to be on going until September.
- Future works in this area will extend to the edge of the Seaview Café picnic area.