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Deep Bay Link – Southern Section

The widening of Yuen Long Highway to incorporate an interchange at Lam Tei is a major component of the Deep Bay Link Southern Section contract. The reconstruction and widening of the 2 km section of Yuen Long Highway stretches from Fu Tei (虎地) to Tan Kwai Tsuen (丹桂村). The photo shows the early stage of road widening with temporary traffic diversion arranged to facilitate the foundation works and the construction of pier supports for the crossing sliproad

In some locations the widening of Yuen Long Highway requires the construction of new retaining structure and backfill afterward to form the new lane. The photo shows the construction of a section of the strip footing for a new retaining wall. The newly cut slope on the edge of the existing highway was temporarily stabilized with ground anchors



The forming of Lam Tei Interchange is another major component of the Southern Section Contract. The interchange connects Deep Bay Link to Route 3 in the east and Tuen Mun Highway in the west, via the Yuen Long Highway. The photo shows the forming of the east and west-bound slipways which connects to the direction of Route 3 near Nai Wai (泥圍)





Erection of complicated falsework provision prepares for the construction of the slipways crossing-over Yuen long Highway. Note also the temporary traffic diversion arranged to facilitate the carrying out of the construction works in various phases



A set of launching gantry used to lift and erect the precast segments for the construction of the viaduct. The section of 800 m-long viaduct as shown in this photo is the east-bound carriageway finally joins the Route 3 via Yuen Long Highway

Close up of the launching gantry under operation as seen in early 2005 with the buildings of the private residential estate in Lam Tei forming a picturesque background



View of the precast segment handling yard with the east and west bound carriageways of interchange heading to the main line of Deep Bay Link



Another view of the segment handling yard with the main line of Deep Bay Link at the background. Besides the receiving of the carriageway coming from Lam Tei Interchange, the exceptionally wide portal beam of the main line (in centre of photo) also provisioned for an outlet for slipways entering into Castle Peak Road in future

A set of gigantic-size portal with pier-head segment on top near the terminal section before joining into Lam Tei Interchange





Panoramic view of the adjoining sections between the Deep Bay Link Northern and Southern Sections. Complicated environment along the road alignment can be clearly observed within this rural background, in particular the crossing over of important transportation lines including tracks of the West Rail and the Light Rail Transit, the busy Castle Peak Road, and other associated ground traffic interchanging points

Construction of a section of viaduct on the side of the Castle Peak Road in balanced-cantilever arrangement using cast-in-situ method. Two sets of traveling formwork were provided at each end for the casting of the box-section deck



Rows of portal frames running across Castle Peak Road (outside photo on left) before joining into Lam Tei Interchange. The maximum width of the carriageway at this section is totally 8 lanes, with dual 3-lane entering into the interchange and dual single-lane provisioned for a future outlet leading into the existing Castle Peak Road



View on the deck level stationed with a launching gantry preparing for the repositioning to a new location for the construction of a new viaduct section



An astonishing view as taken in March 2005 at the meeting point of the four major slipways from both directions crossing each other in the mid-way of Lam Tei Interchange



The construction of the slip road entering from east-bound direction of Yuen Long Highway (left) into Deep Bay Link (right). The buildings on the background are located in the area of Fu Tei, Siu Hong and Lam Tei as positioned from the left to the centre of photo



The overview of the east-bound section of Lam Tei Interchange from the falsework platform erected for the construction of the cross road along Yuen Long Highway



Panoramic view of the completed carriageway on various deck locations at Lam Tei Interchange before its handing over on 1 July 2007



The slip road inlet entering Yuen Long Highway from Lam Tei Interchange heading to Fu Tei direction. The extra lane and the road shoulder at the left side of highway are newly formed and re-aligned using land-filling supported by retaining structure during the widening process



Overview of Lam Tei Interchanging merging into Yuen Long Highway as viewed from Fu Tei