
CAPABILITY

STATEMENT

**G&P Highways &
Transportation Sdn Bhd**
(863912-D)

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Corporate Philosophy

The Company

Professional Services

- Highway, Railway Engineering
and Transportation

Projects/Clients

Corporate Philosophy

- **VISION**

To obtain the Hallmark for Quality Services, Technical Excellence, Reliability and Safety.

- **OBJECTIVES**

To provide Innovative & Economical Designs and to ensure Safety & Ease of Construction.

- **VALUES**

We value our staff for their Creativity & Commitment to Quality.

We instill Teamwork in our staff to ensure the Best Solution for our Client.

We uphold Integrity in all our dealings with our Clients and Colleagues.

The Company

G&P HIGHWAYS & TRANSPORTATION SDN BHD, a specialist company of the **G&P Professional Group**, is an engineering consultant company providing services encompassing the discipline of engineering specializing in transport planning, traffic studies and urban traffic management, engineering design of highways and interchanges, bridges and railways works.

G&P HIGHWAYS & TRANSPORTATION SDN BHD has among its staff and associates diverse engineering specialists capable of undertaking the respective projects tailored to meet the clients requirements. Projects undertaken include major urban transport planning and studied, traffic impact assessment, junction studies, detailed engineering design of highways and railway works.

G&P HIGHWAYS & TRANSPORTATION SDN BHD strives for an efficient operation of modern consulting practice which adopts many new knowledge management techniques and operational tools, including the utilization of computer aided system, computer simulation and modeling which supports the most sophisticated transport planning and engineering analysis, design and draughting software available today. Integration of our knowledge and expertise together with computer aided design and draughting facilities are extensively utilized to optimize our design.

Professional Services

G&P HIGHWAYS & TRANSPORTATION SDN BHD provides a wide range of engineering consultancy service in the fields of transport planning, traffic study, planning and detailed engineering design of highways and roads, and rail works.

These involve:

- Highway, railway engineering
- Transportation
 - Transport and traffic studies
 - Urban traffic management
 - Traffic impact assessment

Selected Projects and Clients Done by The Principals

Highway, Railway Engineering and Transportation (Road Upgrading)

Project Menaiktaraf Sungai Kayu Ara Di Kampung Cempaka, Taman Mayang dan Kerja-kerja Berkaitan, Petaling, Selangor.

Client: Lingkaran Trans Kota Sdn Bhd



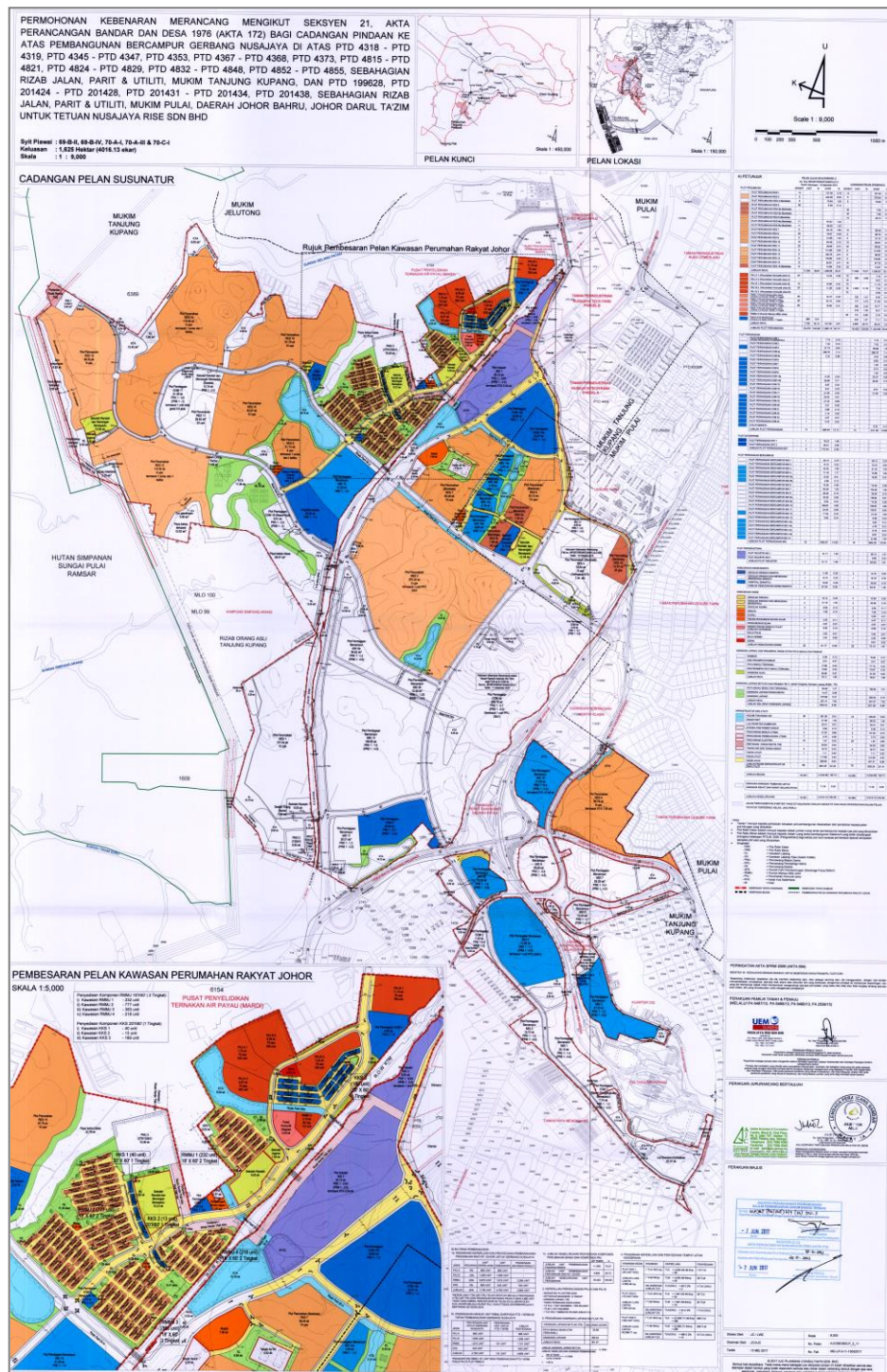
Selected Projects and Clients Done by The Principals

Highway, Railway Engineering and Transportation (Design & Implementation)

Gerbang Nusajaya Phase 1 Detailed Master Infrastructure

Client: UEM Sunrise Sdn Bhd

A project involves Civil and Structural Engineering Consultancy Services - Water and Sewer Reticulation System.

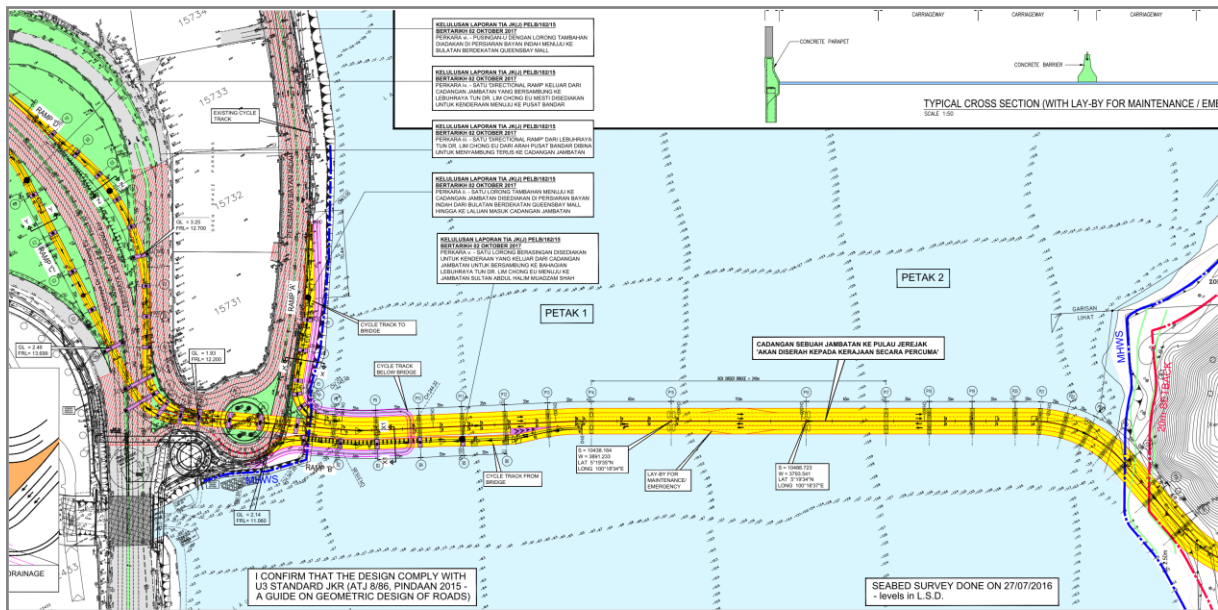


Selected Projects and Clients Done by The Principals

Highway, Railway Engineering and Transportation (Design & Implementation)

Proposed Pulau Jerejak Development - Access Interchange and Bridge Design

Client: Ideal Gim Venture Sdn. Bhd.



SPJ Pan Borneo Project from Serian to Pantu - Highway Geometrics Review and Alternative Road Profile Design

Design review



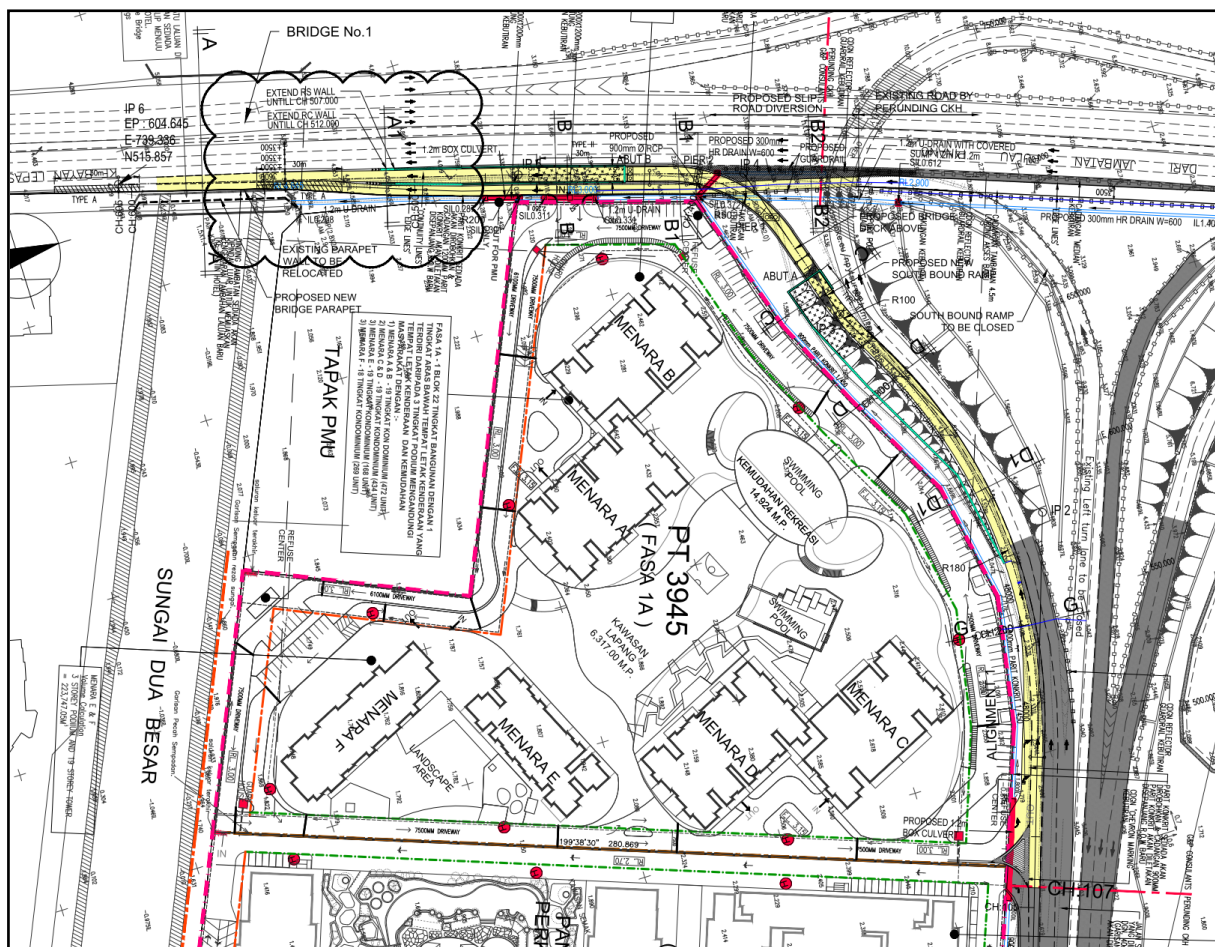
Selected Projects and Clients Done by The Principals

Highway, Railway Engineering and Transportation (Design & Implementation)

Proposed Mixed Development at Penang World City, Persiaran Sg. Nibong, Mukim 13, Daerah Timur Laut, Pulau Pinang

Client: Tropicana Ivory Sdn Bhd

A project involves Civil, Structural, Highway and Geotechnical Engineering Consultancy Services on Bridges, Viaducts, Elevated Ramps, Interchange, Underpass and Upgrading of Roads for Approximately 67.56 acres of Existing land- Civil, Structural, Highway and Geotechnical Engineering Consultancy Services on Bridges, Viaducts, Elevated Ramps, Interchange, Underpass and Upgrading of Roads for Approximately 67.56 acres of Existing land.



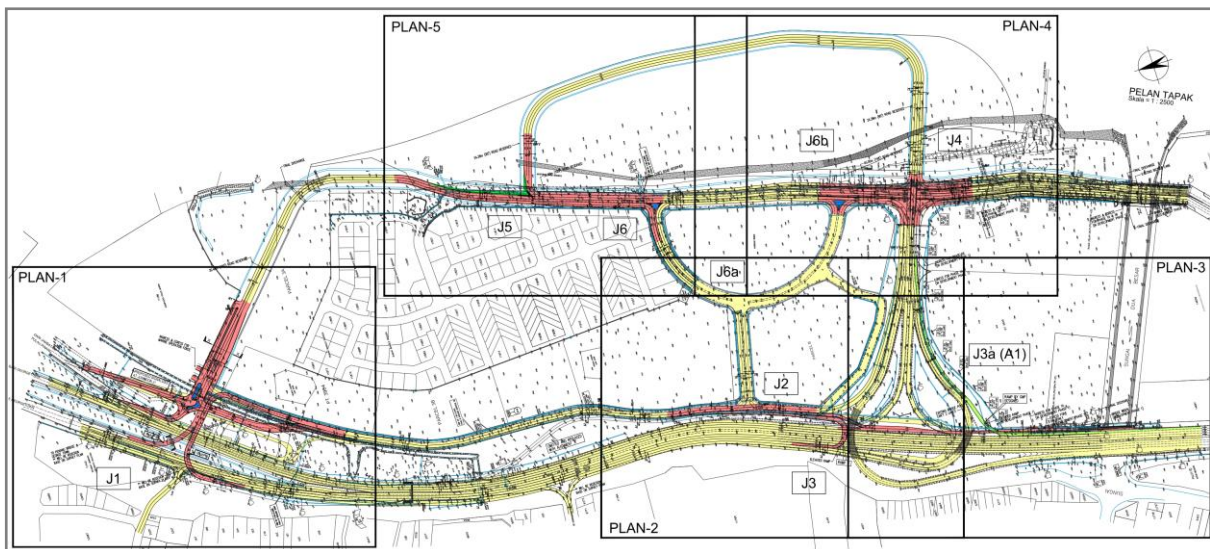
Selected Projects and Clients Done by The Principals

Highway, Railway Engineering and Transportation (Design & Implementation)

Proposed Mixed Development at Penang World City, Persiaran Sg. Nibong, Mukim 13, Daerah Timur Laut, Pulau Pinang

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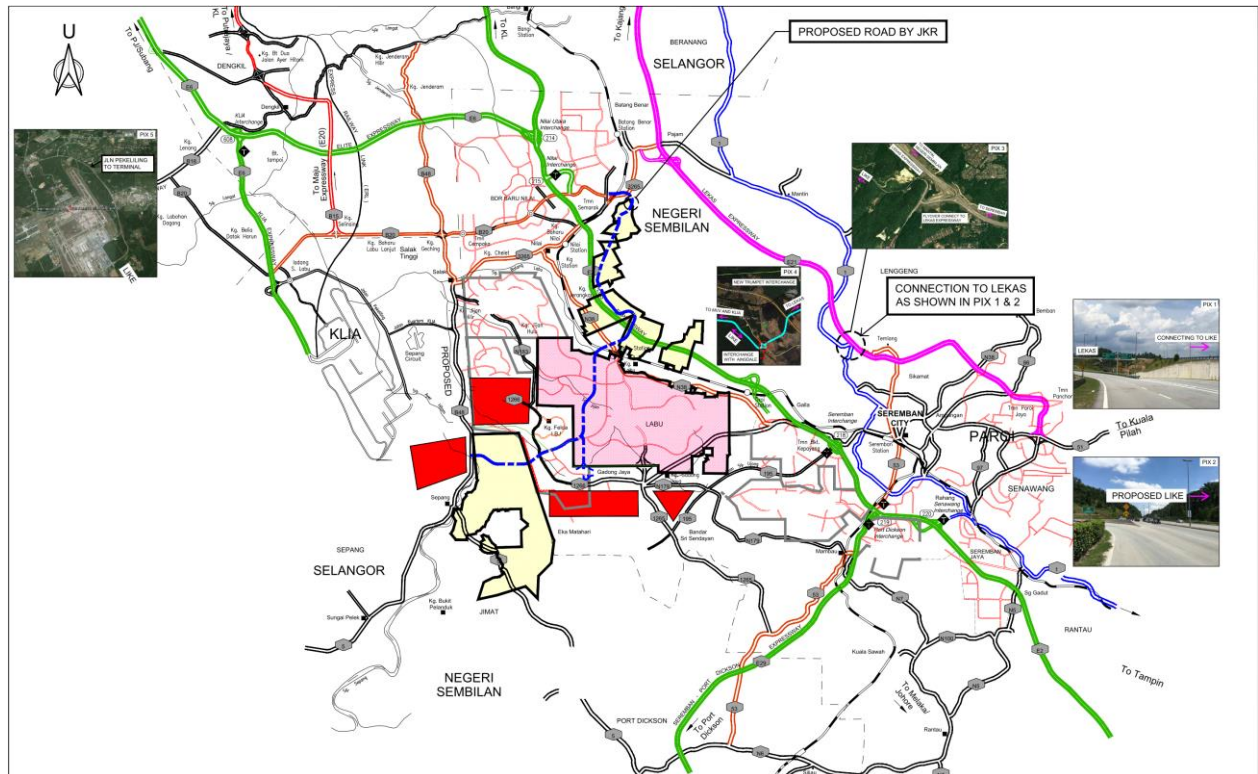
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Selected Projects and Clients Done by The Principals

Highway, Railway Engineering and Transportation (Design & Implementation)

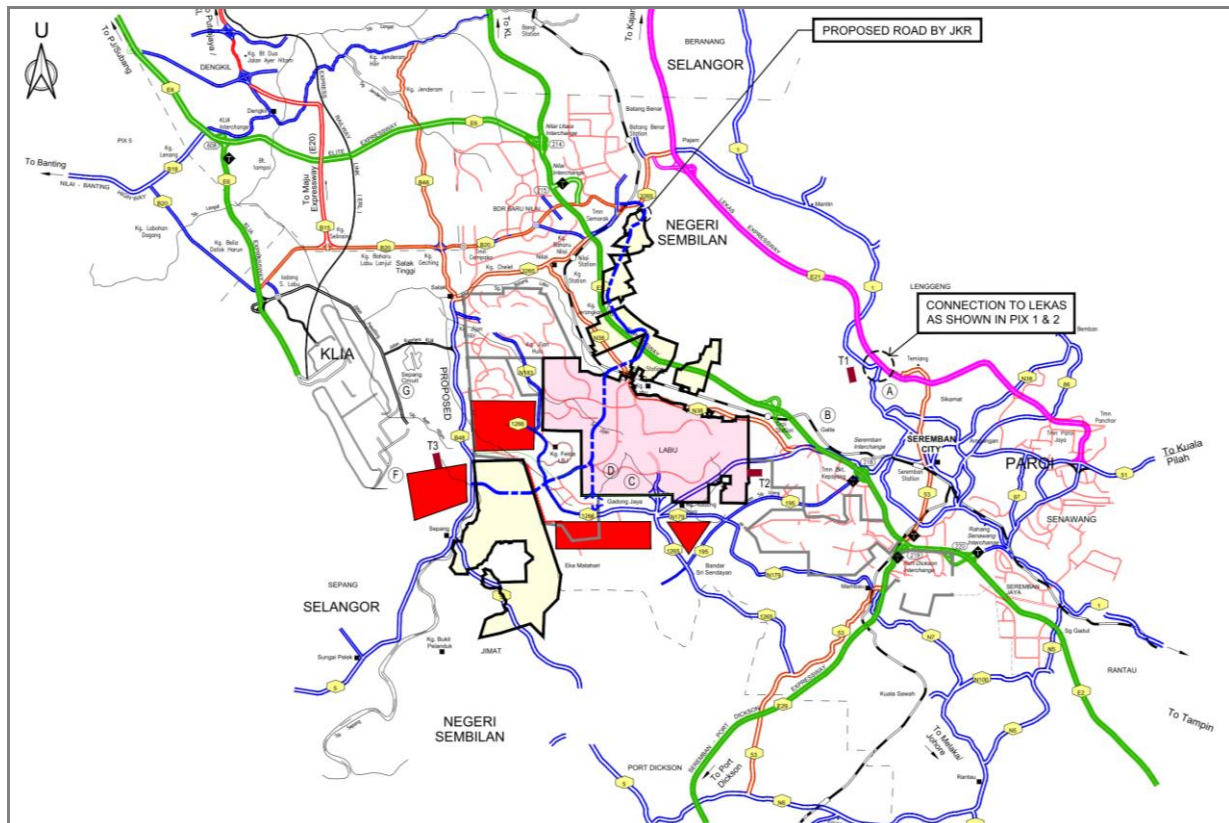
Privatization of Expressway



Selected Projects and Clients Done by The Principals

Highway, Railway Engineering and Transportation (Studies)

Traffic Study for Proposed Privatization of Expressway

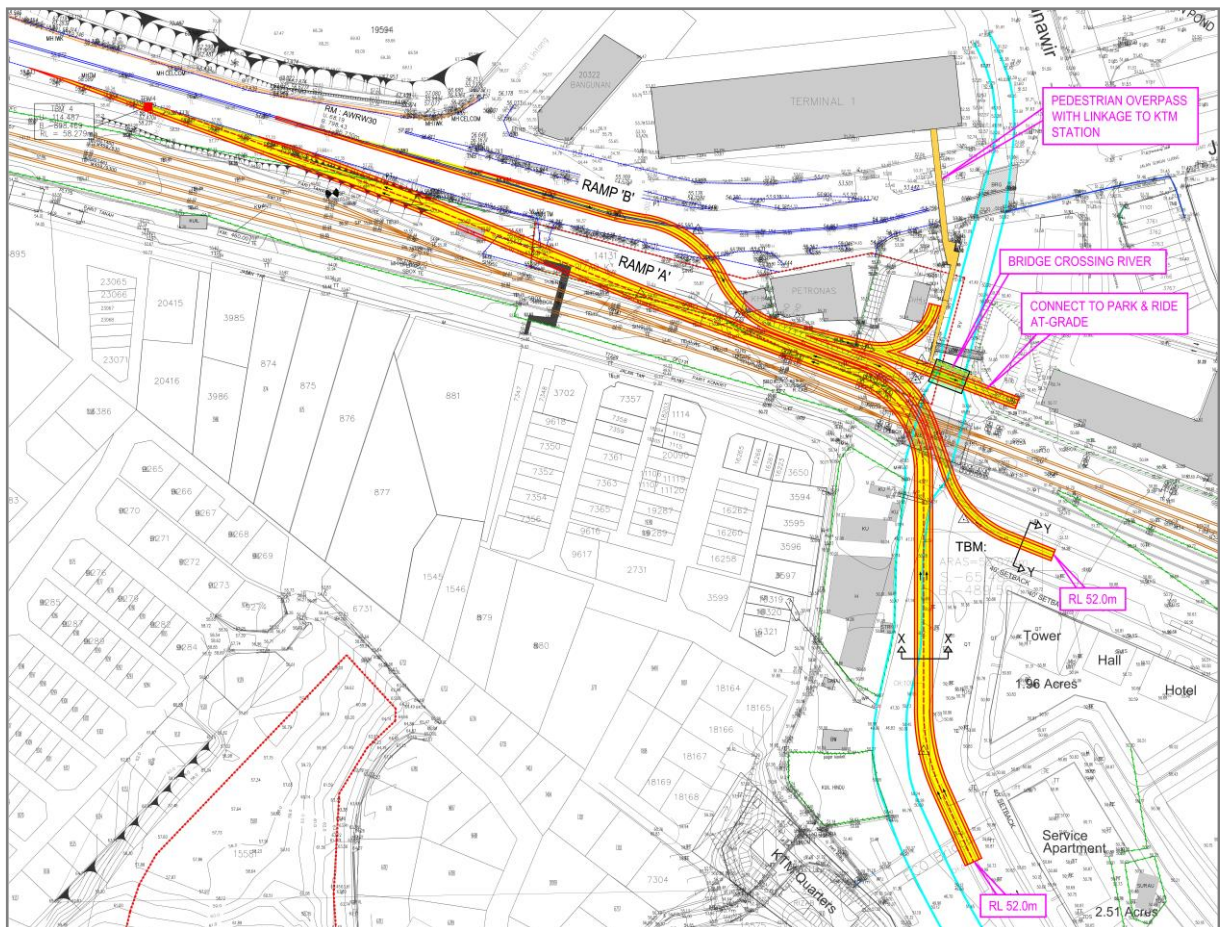


Selected Projects and Clients Done by The Principals

Highway, Railway Engineering and Transportation (Design & Implementation)

Access Interchange Planning design for a Seremban KTM Station

Interchange Design



Traffic Impact Assessment (TIA) Dreamhomes @ Cyberjaya - Phase 1

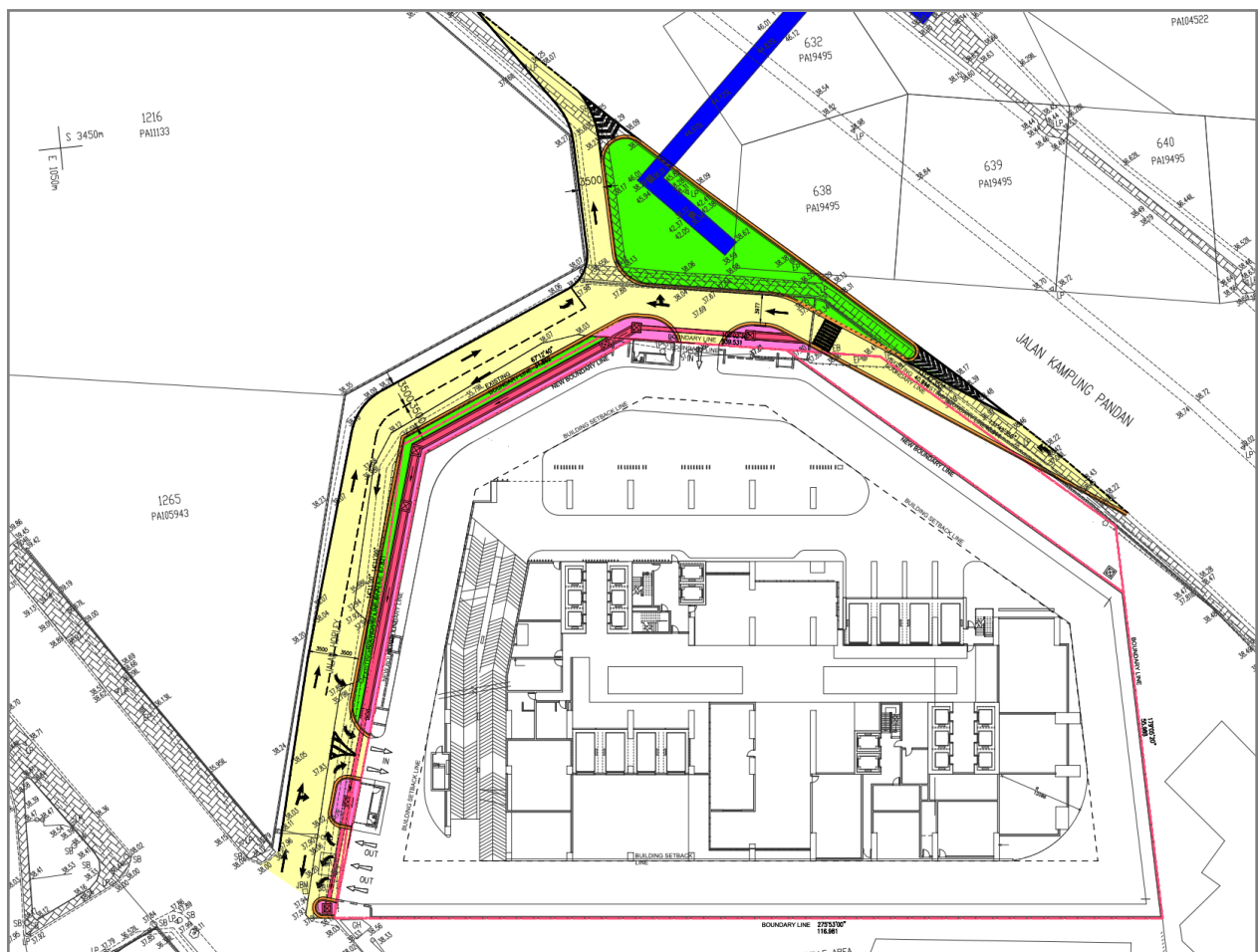
The site plan for Persiaran Bestari shows a proposed road layout with two main access junctions. Junction A, located at the bottom left, is labeled 'PROPOSED ACCESS JUNCTION A (TO BE SIGNALISED WHEN TRAFFIC WARRANTS)'. Junction B, located at the top right, is labeled 'PROPOSED ACCESS JUNCTION B (SUBJECT TO AUTHORITY APPROVAL) (FUTURE SIGNALISED)'. The plan includes a north arrow pointing towards the top left, a scale bar indicating 0 to 100 meters, and a legend with three categories: Boundary Line (dashed line), Existing Level in Metre (yellow shading), and Roadside (green shading). The road layout is shown with yellow and green sections, and various road markings and signs are indicated. Surrounding features include a school (SEKOLAH) and a bus stop (BUS STOP).

Selected Projects and Clients Done by The Principals

Highway, Railway Engineering and Transportation (Studies)

Traffic Impact Assessment (TIA) for Imbi Residences Tower at Lot 1372, Jalan 1/77B, Kuala Lumpur

Client: Elite Starhill Sdn. Bhd.

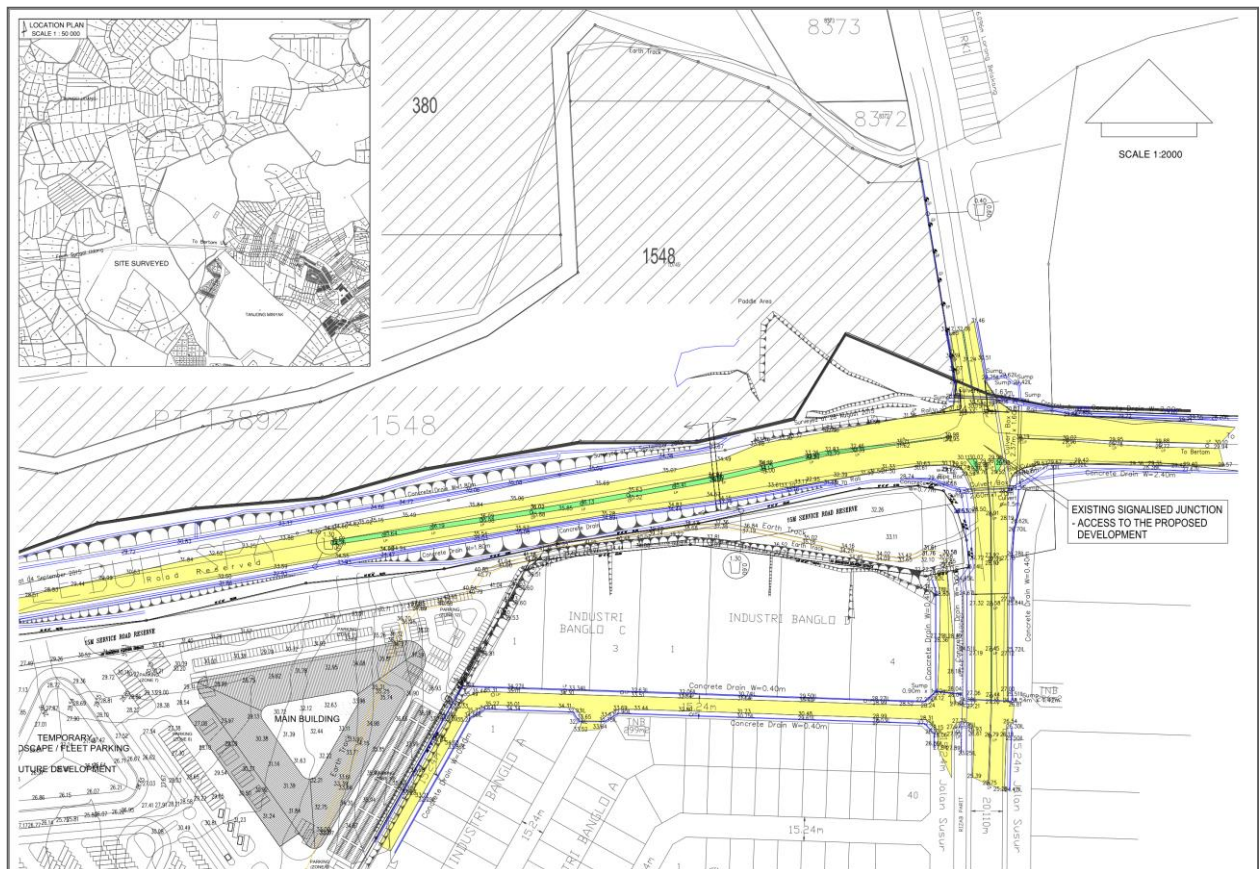


Selected Projects and Clients Done by The Principals

Highway, Railway Engineering and Transportation (Studies)

Traffic Impact Assessment (TIA) for Regional Operations Centre at Bertam, Mukim Tanjung Minyak, Melaka

Client: EDARAN SWM Sdn. Bhd.



Selected Projects and Clients Done by The Principals

Highway, Railway Engineering and Transportation

Ir. Lee Choy Hin, Managing Director of G&P Highways & Transportation Sdn Bhd acted as expert witness for the arbitration case for SJIC Bina Sdn Bhd

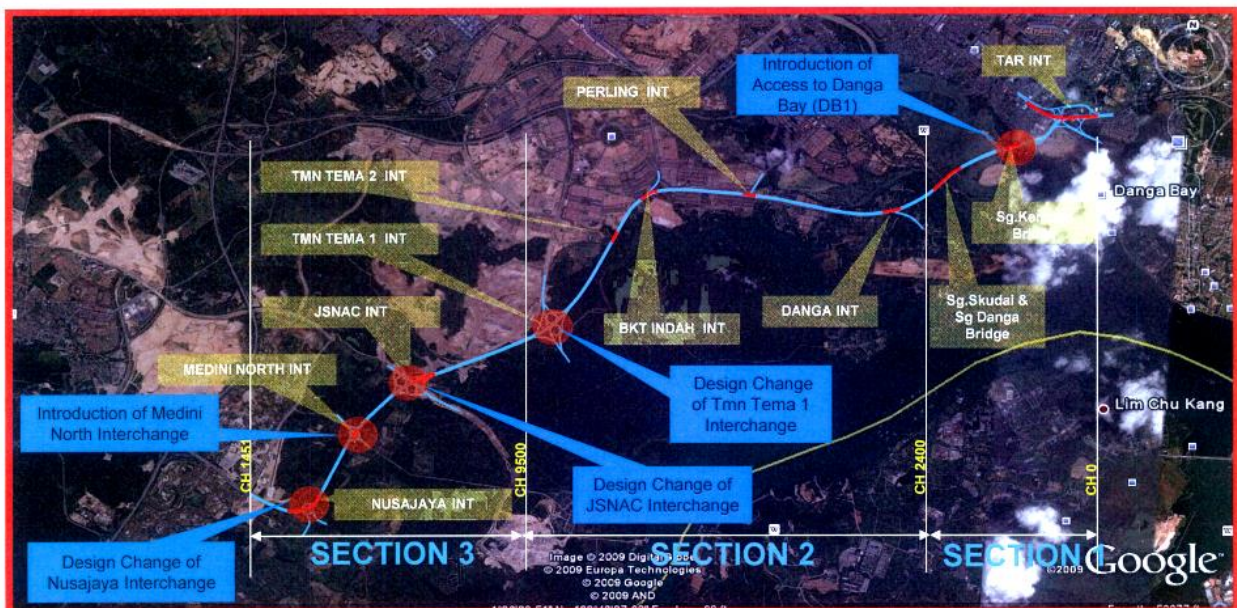
Client: SJIC Bina Sdn. Bhd.



**DESIGN CHANGE FOR PAKEJ 1
MEMBINA LEBUHRAYA PESISIR PANTAI DARI JOHOR BAHRU
KE NUSAJAYA**

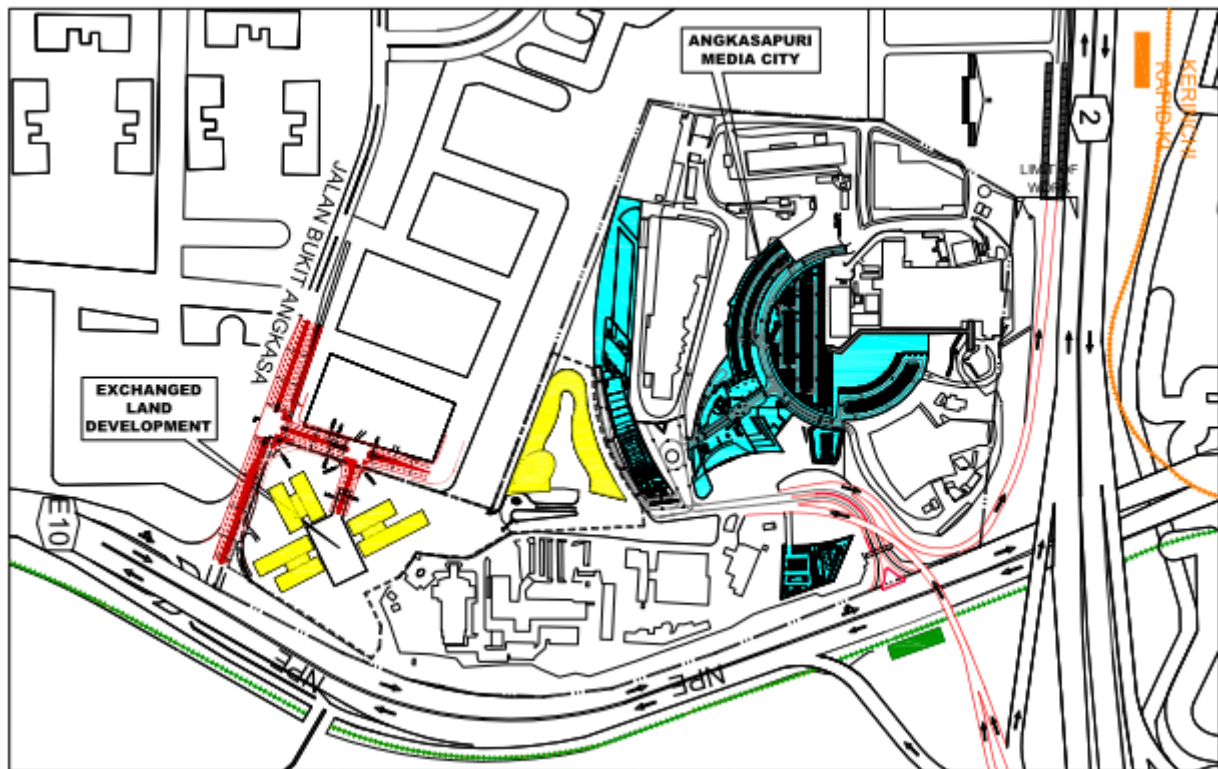


**OVERALL PLAN FOR PACKAGE 1: MEMBINA LEBUHRAYA PESISIR PANTAI DARI
JOHOR BAHRU KE NUSAJAYA**



Selected Projects and Clients Done by The Principals

Traffic Impact Assessment And Traffic Study Projects



Traffic Study & Engineering Design for Media City Development, Kuala Lumpur

Client: Media City Development Sdn. Bhd.

The project involves data collection and analysis, the study of future traffic demand, existing road and T-intersection improvement to cater for the future demand and engineering design of dedicated grade separated ingress and egress to Media City.

Selected Projects and Clients Done by The Principals

Highway, Railway Engineering and Transportation (Design & Implementation)



New Link to Westport Container Terminal

Client: Wijaya Baru Sdn Bhd

Design of the 700m long bridge foundations with ground treatment of the approach embankments linking existing road to Westport Container Terminal 4 (CT4).



Indah Point Interchange at Pulau Indah, Selangor, Malaysia.

Client: Wijaya Baru Sdn Bhd

Design of the 1700m long bridge with ground treatment for approach embankments to the two ramps at Indah Point.

Selected Projects and Clients Done by The Principals

Highway, Railway Engineering and Transportation (Design & Implementation)



Design and Construction of Jelutong Expressway, Penang, Malaysia

**Client: IJM Corporation Bhd / JKR
Penang**

Engineering Design, Construction and Completion of the Jelutong Expressway including interchanges and bridges implemented under privatization concept.

Design and Construction of Interchange Access to Water Front City, Penang, Malaysia

**Client: IJM Corporation Bhd / JKR
Penang**

Engineering Design, Construction and Completion of Interchanges and Upgrading Works for Waterfront City (e-Gate) developed by IJM Corporation Bhd.



Selected Projects and Clients Done by The Principals

Highway, Railway Engineering and Transportation (Design & Implementation)



Vehicular and Pedestrian Bridges at Malacca River, Melaka, Malaysia

**Client: Kejuruteraan Asas Jaya Sdn. Bhd.
/Majlis Bandaraya Melaka Bersejarah**

Engineering Design of three Vehicular and two Pedestrian Bridges in Melaka town.



Approach Embankment to Bridge across PLUS Expressway at Bernam Jaya

Client: Syarikat Muhibbah Perniagaan & Pembinaan Sdn. Bhd.

Design of alternative foundation system for the bridge approach embankment. The alternative foundation system proposed is pile embankment with variable pile length (transition piles) together with temporary surcharge. This alternative system prevents differential settlement between the bridge and approach embankment which is a common problem on bridge approaches.

Selected Projects and Clients Done by The Principals

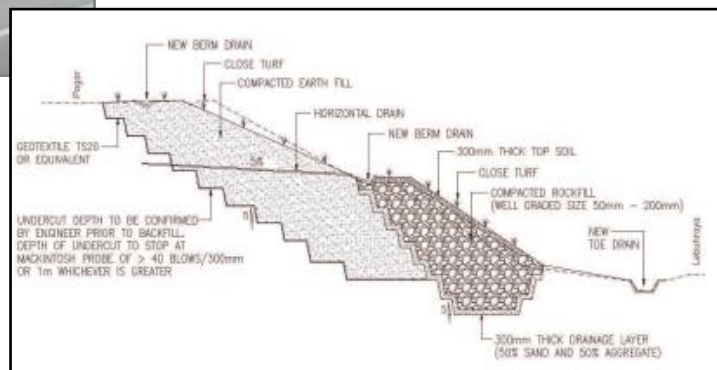
Highway, Railway Engineering and Transportation (Design & Implementation)



Slope Rehabilitation Works at KM 32.6 SB Linkedua Expressway near Senai, Johor

Client: Linkedua Expressway Bhd

Design of the rehabilitation measures to remedy the 2-berm slope with improvement of the surface and sub-surface drainage system.

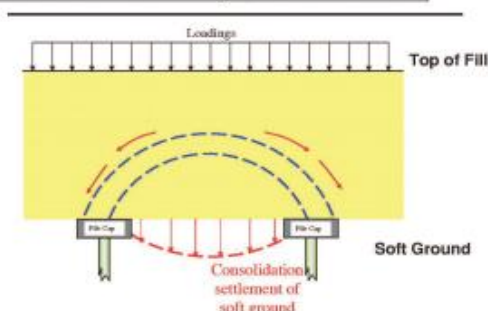


Softground Improvement Works at KM 64BB, Section N2, North-South Expressway near Pendang, Kedah

Client: PLUS Expressway Bhd

Design of remedial measures to alleviate uneven surface settlement and depressions on road embankments supported by piles with isolated pile caps. A very cost effective and a short construction duration method on remedial work was successfully innovated to solve the problem.

Mechanism of Soil Arching - "Mushroom" Effects



Selected Projects and Clients Done by The Principals

Highway, Railway Engineering and Transportation (Design & Implementation)



Bandar Botanic Development, Klang

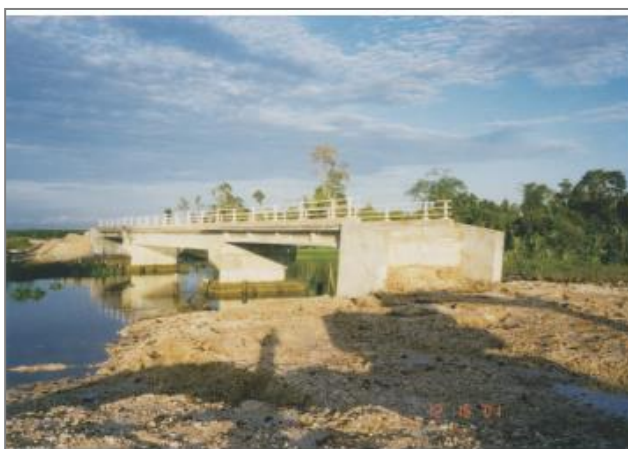
Client: Harum Intisari Sdn Bhd

Design of ground treatment and foundation system for bridges and all roads within the development ensuring long term performance of these infrastructures and to provide comfortable driving experience of all users.

Bandar Botanic Development, Klang

Client: Harum Intisari Sdn Bhd

Design of ground treatment and foundation system for bridges roads within the development over soft compressible Marine Clay.



Remedial Work Design of Sg. Pasai Bridge, Sibul, Sarawak

Client: Tradewinds Plantation Services Sdn Bhd

Design of a tilted abutment and approach embankment for 70m long, three span bridge across Sg. Pasai.

Selected Projects and Clients Done by The Principals

Highway, Railway Engineering and Transportation (Design & Implementation)



Investigation & Remedial Design of NSE Central Link & KLIA Expressway KM 21.5 to KM 22.1

Client: Pengurusan Lebuhraya Berhad

Investigation into the serviceability problem encountered at the affected stretch.

The works involved planning of subsurface investigation and instrumentation works to determine the causes of the serviceability problem and propose appropriate long-term remedial measures.



Design and Construction of the Central Workshop Maintenance Railway Development at Batu Gajah, Perak

Client: Kinta Samudra Sdn Bhd

Design and construction of the central workshop over ex-mining land.

The design and construction component involved piling works for the building structures, ground treatment using vertical drain and vibro-compaction for railway embankment and pond reclamation works.



Selected Projects and Clients Done by The Principals

Highway, Railway Engineering and Transportation (Design & Implementation)



Geotechnical works (foundation and ground treatment for Kuala Lumpur, Putrajaya Dedicated Highway.

Client: Leighton Contractors (M) Sdn Bhd (Motibina Sdn Bhd)

Review on the geotechnical works which inclusive of based pile, caisson pile and ground treatment of the 26km Kuala Lumpur, Putrajaya Dedicated Highway.

Kajang Traffic Dispersal Ring Road (Section 3C) - SILK

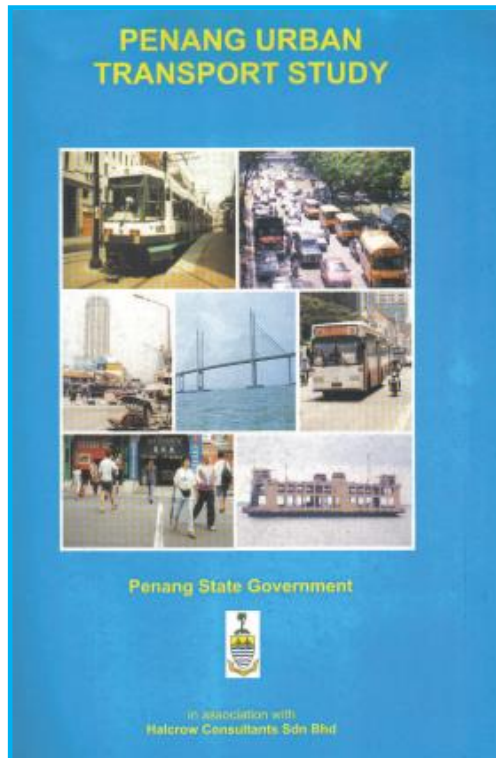
Client: Sunway Construction Sdn Bhd

Ground treatment design (piled embankment, stone column, surcharge, etc.) of the 3.5km Kajang Dispersal Ring Road at Section 3B and 3C.



Selected Projects and Clients Done by The Principals

Highway, Railway Engineering and Transportation (Studies)



Penang Urban Transport Study

Client: Penang State Government, Malaysia.

The scope of the Study involves Problem Identification, Data Collection and Analysis, Transport Modelling, Proposed Solutions and Recommendations.

The Study includes the evaluation of alternatives for the location of Penang Second Bridge, the option recommended was selected by the Government for implementation.

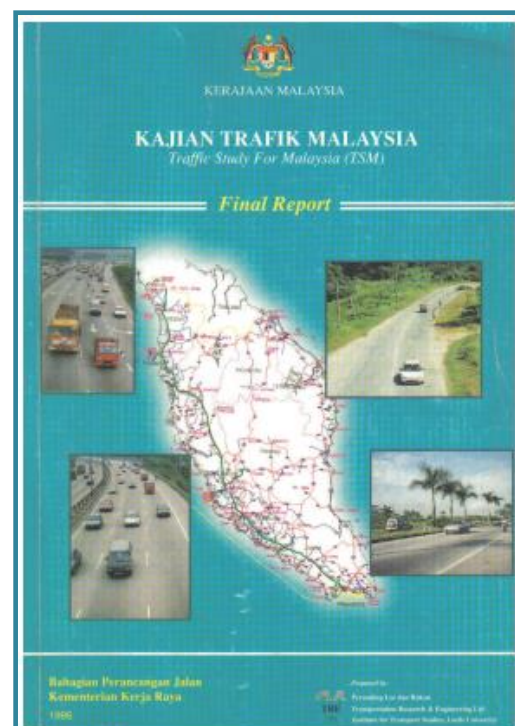
The Study was done in association with Halcrow Consultants Sdn. Bhd.

Traffic Study for Malaysia

Client: Highway Planning Unit; Ministry of Works, Malaysia.

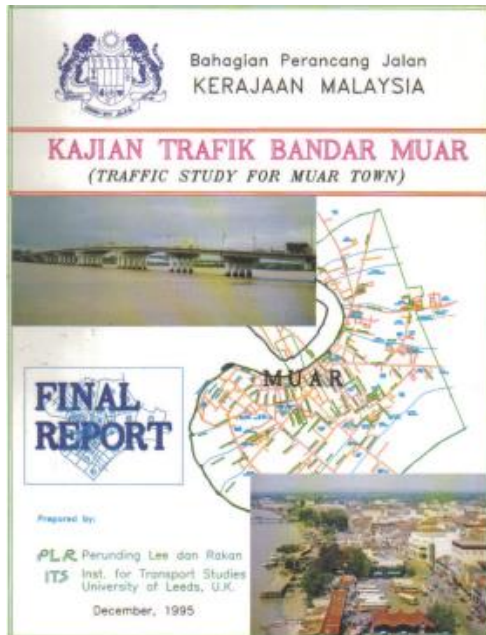
This is an empirical study carried out to obtain passenger car equivalence (pec) and peak hour factor (phf) for rural conditions. The Study duration was 18 months involving analysis using Computer Simulation and Compilation of Findings for the data collected on main trunk roads throughout West Malaysia.

The Study was done in association with Transport Research and Engineering Ltd (TRE) and Institute for Transport Studies (ITS) University of Leeds,



Selected Projects and Clients Done by The Principals

Highway, Railway and Engineering and Transportation (Studies)



Traffic Study for Bandar Muar, Malaysia.

Client: Highway Planning Unit; Ministry of Works, Malaysia.

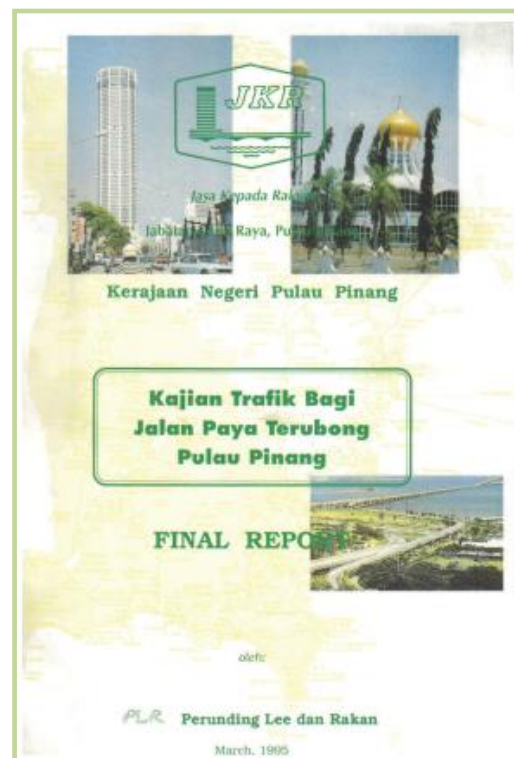
The objective of the Study is to identify problems and issues and to recommend counter-measures to mitigate or resolve urban congestion in Bandar Muar. The scope includes Evaluation of Alternatives and submission of Proposals to alleviate urban traffic congestion.

Traffic Study and Preliminary Design of Jalan Paya Terubong, Penang, Malaysia

Client: Jabatan Kerja Raya Pulau Pinang, Malaysia.

The Study was carried out to assess the capacity requirement of Jalan Paya Terubong to effectively serve the development corridor in central region of Penang Island.

The scope includes preliminary design for the upgrading of road and junctions of Jalan Paya Terubong based on the Study carried out.



Selected Projects and Clients Done by The Principals

Highway, Railway and Engineering and Transportation (Studies)



Capacity Study for Lane Extension of Penang Bridge, Penang, Malaysia.

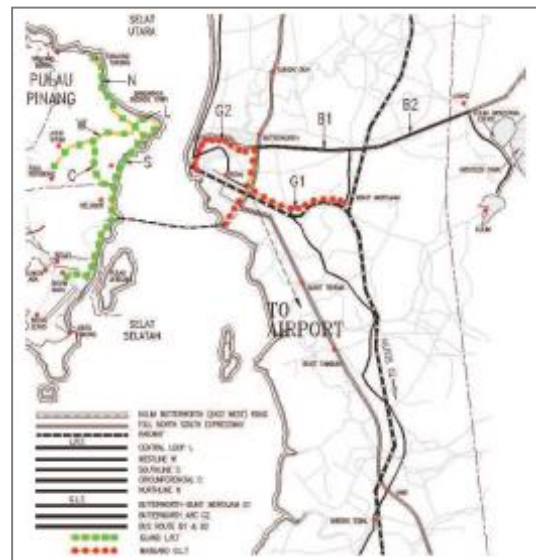
Client: Intria Bhd (UEM Group)

The Penang Bridge Concession Company, Intria Bhd under the UEM Group intended to extend the existing Penang Bridge due to congestion problem. Traffic Study was done to evaluate the proposed bridge extension.

Penang LRT Studies

Client: Penang Government (Privatization Proposal)

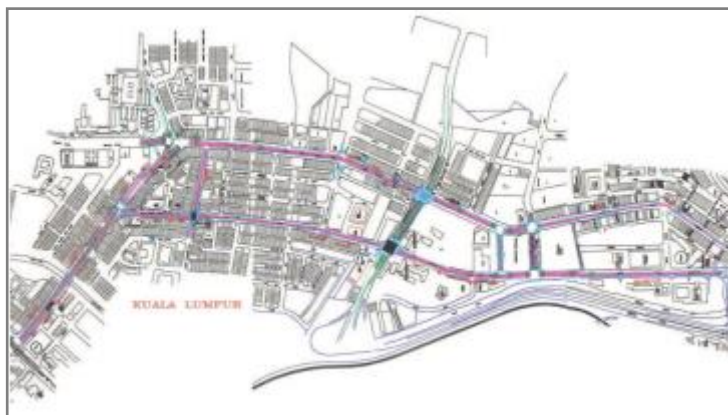
The Study was done in association with Bombardier Transportation and SNC-Lavalin of Canada as a privatization proposal to the Penang Government. The light rail transit (LRT) studied focused on Demand Forecasting, Route Selection and choice of Rolling Stocks covering Penang Island and Mainland Urban Centres.



Capacity Study for Lane Extension of Penang Bridge, Penang, Malaysia.

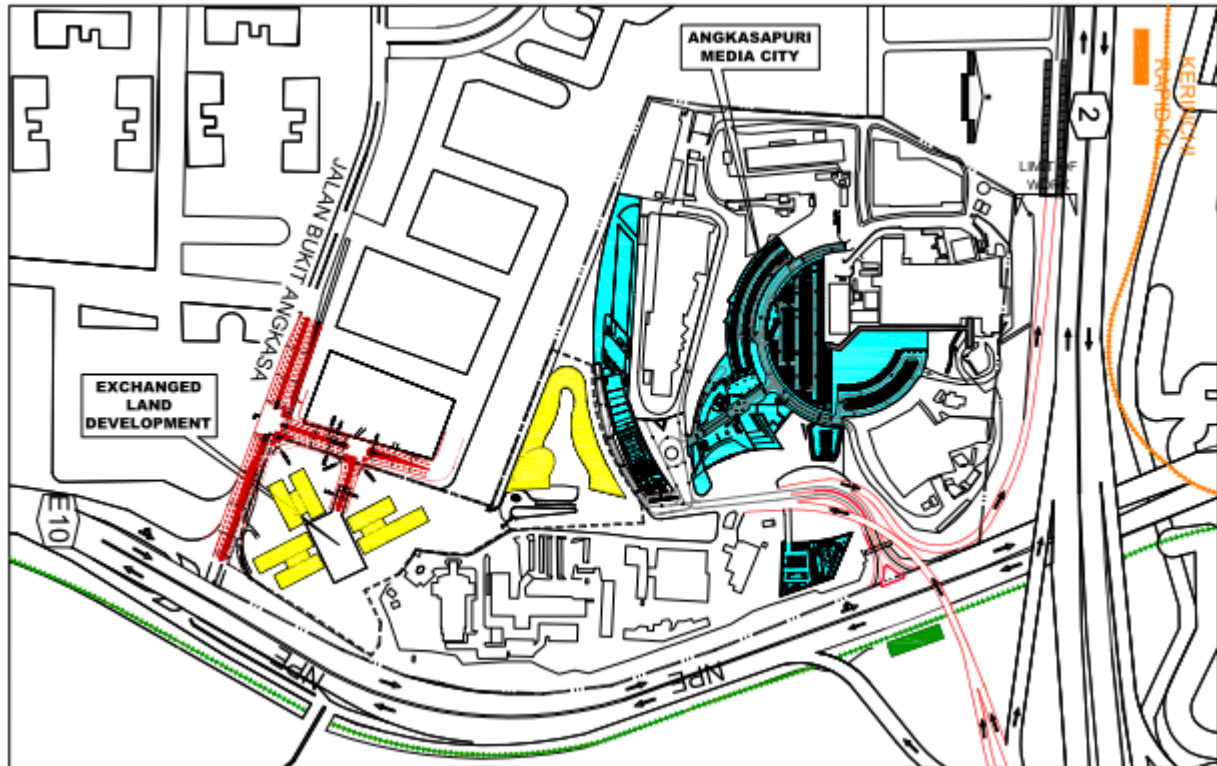
Client: Intria Bhd (UEM Group)

The Penang Bridge Concession Company, Intria Bhd under the UEM Group intended to extend the existing Penang Bridge due to congestion problem. Traffic Study was done to evaluate the proposed bridge extension.



Selected Projects and Clients Done by The Principals

Traffic Impact Assessment And Traffic Study Projects



Traffic Study & Engineering Design for Media City Development, Kuala Lumpur

Client: Media City Development Sdn. Bhd.

The project involves data collection and analysis, the study of future traffic demand, existing road and T-intersection improvement to cater for the future demand and engineering design of dedicated grade separated ingress and egress to Media City.

Selected Projects and Clients Done by The Principals

Traffic Impact Assessment And Traffic Study Projects

Traffic Impact Assessment for Townvilla and Condominium Development at Bandar Puteri Puchong, Selangor

Client: Flora Development Sdn. Bhd.

The project involves data collection and analysis, the study of future traffic demand, by considering the future development at the vicinity, existing road and road upgrading work to ensure smooth flow of traffic at the access road, as well as smooth traffic movement in and around the flora's development.

Engineering Design of Access & Traffic Impact Assessment for Mixed Development at Sungai Buloh, Selangor

Client: Fortson Properties Sdn. Bhd.

The project involves data collection and analysis, the study of future traffic demand by intergration of Kg. Baru Sg. Buloh MRT station, existing road and T-intersection improvement to cater for the future demand and engineering design of dedicated ingress and egress to Fortson's development.

Traffic Impact Assessment & Internal Traffic Circulation Study for Service Apartment Development at Jalan Talalla, Kuala Lumpur

Client: Star Effort Sdn. Bhd.

A project involves data collection and analysis, the study of future traffic demand, external and internal traffic circulation study to ensure smooth flow at the access road, as well as smooth traffic movement in and around the new apartment.

Selected Projects and Clients Done by The Principals

Traffic Impact Assessment And Traffic Study Projects

Traffic Impact Assessment for Semi-D Shop Office Development at Kita Damansara

Client: Prosper Villa Sdn. Bhd.

A project involves data collection and analysis, the study of future traffic demand, to ensure efficient flow of traffic at the access road as well as smooth traffic movement in and out the development.

Engineering Design of Access & Traffic Impact Assessment & Traffic Light Installation for Condominium Development at Setapak, Kuala Lumpur

Client: Beneton Properties Sdn. Bhd.

A project involves data collection and analysis, the study of future traffic demand, traffic light installation, existing road and T-intersection improvement to cater for the future traffic.

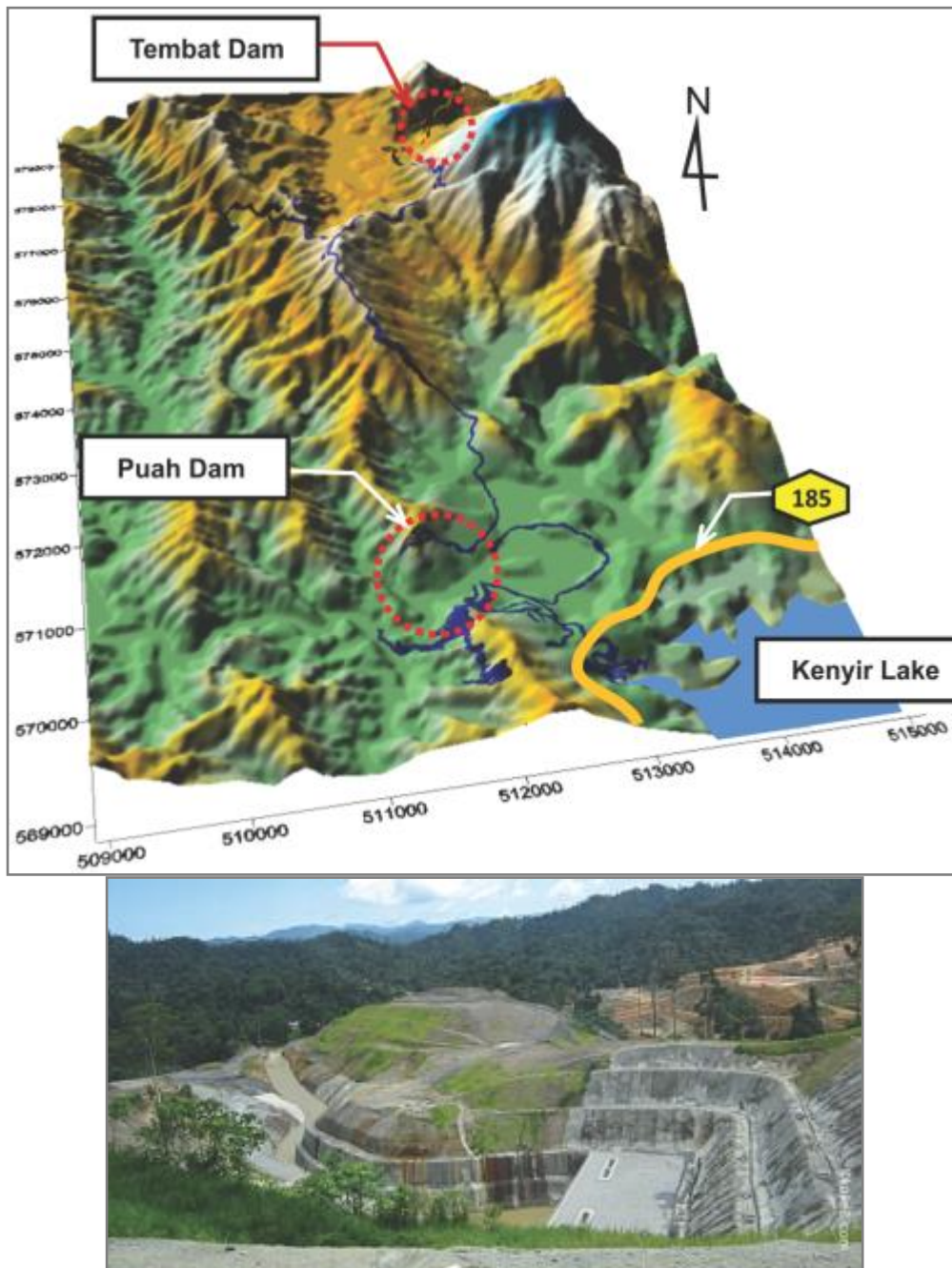
External & Internal Traffic Circulation Study for Hospital Raja Permaisuri Bainun, Ipoh

Client: Hospital Raja Permaisuri Bainun

A project involves of external and internal traffic circulation study to ensure efficient flow of traffic at all the access road, as well as smooth traffic movement in and around the new hospital through effective and efficient traffic management measures.

Selected Projects and Clients Done by The Principals

Engineering Design of Infrastructure



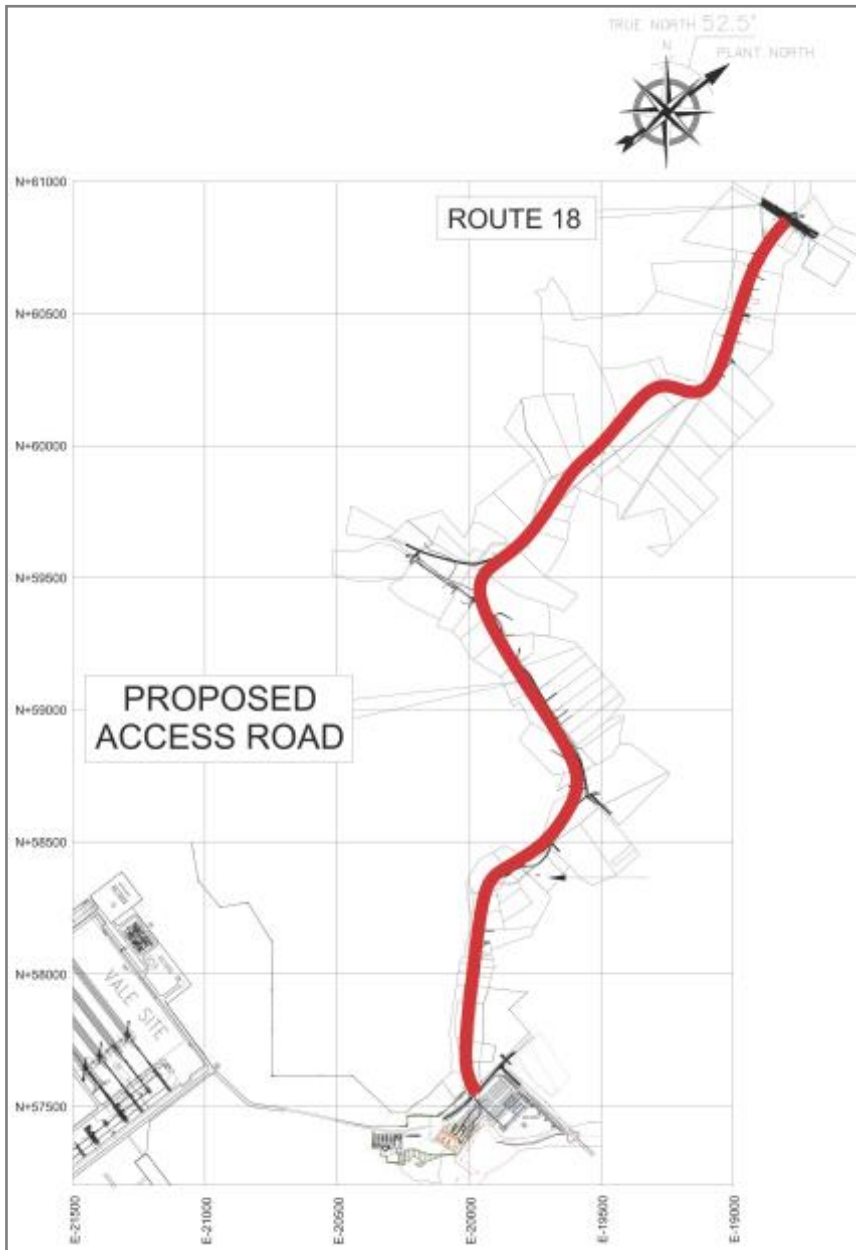
Engineering Design of Access Road to Puah & Tembat Dam & Upgrading of 3 Nos. Existing T-intersection at Federal Route 185, Hulu Terengganu

Client: Tenaga Nasional Berhad

Design and construction of access road linking to Puah and Tembat dam, upgrading and road widening of 3 nos. existing T-intersection at Federal Route 185 to cater for the future traffic and provide compatibility of road cross-section on safety ground.

Selected Projects and Clients Done by The Principals

Engineering Design of Infrastructure



Engineering Design of Access Road from Route 18 to Iron Ore and Pellet Plant, Manjung, Perak.

Client: Vale (Malaysia) Minerals Sdn. Bhd.

A project involves design and upgrading of an access road from Route 18 to Iron Ore and Pellet Plant. The work consists of designing a new road and upgrading work for an existing road to cater for the future traffic and provide compatibility of road cross-section on safety ground.

Selected Projects and Clients Done by The Principals

Engineering Design of Infrastructure

Planning and Infrastructure Design for 5 units of Bungalow Lot at Bukit Tunku, Kuala Lumpur

Client: Pelanduk Puncak Sdn. Bhd.

A project involves planning and engineering design of major infrastructure e.g. earthwork, sewerage system, water supply, road and drainage system for 5 units of bungalow lot.