

### **FACULTY OF CIVIL ENGINEERING**

### INDUSTRIAL TRAINING REPORT

### **MUHAMMAD AFIF BIN ABU TALIB**

(2016616536)

## DEWAN BANDARAYA KUALA LUMPUR JABATAN KEJURUTERAAN AWAM DAN PENGANGKUTAN BANDAR TINGKAT 8, MENARA DBKL 2, JALAN RAJA LAUT, 50350, KUALA LUMPUR

**JULAI – SEPTEMBER 2019** 

### **ABSTRACT**

The purposes of written this report is to explain about the Industrial Training. The scope of study is engineering and the various environments at Jabatan Kejuruteraan Awam Dan Pengangkutan Bandar.

The importance of internship is to give exposure to the students the real situation in engineering professions. Besides, it also can build and increase positive and critical thinking when overcoming engineering problems with the suitable and rational solution.

Jabatan Kejuruteraan Awam Dan Pengangkutan Bandar responsible for the road in Kuala Lumpur and the DBKL project. Every road closure, maintenance of the road and transportation including construction project will be handle by JKAPB.

At JKAPB, the entire applicants for road closure need to submit their form to this department for the approval. If the applicants close the road without getting the approval, Jabatan Penguatkuasa will fine them. This seems small issue, but it is important to ensure everybody comforts and to avoid any complain from the road users. Furthermore, JKAPB also does open tender for road marking after prepared the Bill of Quantities. After that, all of the tender will be process and the contractor will be picked based on their experience with the infrastructure works.

Last but not least, during the Industrial Training, students are well exposed to the real working environment and challenges in many natures of works such as in JKAPB. Through many situations and problems encountered, the students can obtained a lot of new inputs and skills which is useful under the guidance of experienced people.

### **ACKNOWLEDGEMENT**

First and foremost, I like to express my gratitude to Allah for giving me the health and time to complete my Industrial Training in this department. I also would like to thanks Institut Latihan Dewan Bandaraya (IDB) for accepting me as their practical students and placed me at JKAPB during my 8 weeks of training from 5 July 2019 until 1 September 2019. I also like to express my thanks to Encik Amirul Ain Bin Amran because the willingness to accept me under his guidance and supervise. I also like to express my gratitude to Encik Sulaiman Bin Ramli as my guidance when Encik Amirul Ain absence. Also, all the employee at Jabatan Kejuruteraan Awam Dan Pengakutan Bandar for helping me during my Industrial Training. Furthermore, my thanks to other practical students at the department that willingly helps me during my journey at JKAPB. Lastly, all the people that have help me unconsciously during my Industrial Training.

### **CHAPTER 1: INTRODUCTION**

### 1.1 Introduction

The Industrial Training (IT) begin on 5 July 2019 until 1 September 2019. There were a few days of delay on reporting day as on 5 July 2019, the final examination still does not finish as UiTM Pasir Gudang experienced gas attack and need to be close for their student safety. Therefore, the delay letter was sent to the Institut Latihan Dewan Bandaraya (IDB) to inform the delay. The reporting day was change to 18 July 2019 and I was placed at Menara DBKL 2, Jalan Raja Laut. The person that was in charged in supervising me was Encik Amirul Ain Bin Amran, one of the Senior Engineer at the office.

### 1.2 Background Company

The department that I was placed is Jabatan Kejuruteraan Awam Dan Pengangkutan Bandar (JKAPB). This department mostly in charged in road marking, road closure for event or contruction and transportation. A few members of Agensi Pengangkutan Awam Darat (APAD) also was placed there to assist on the transportation part. Every issue regarding road closure need to be approve by this department and the organizer need to get permit on road closure from this department if the work or event inside of Kuala Lumpur.

### 1.3 Organizational Structure

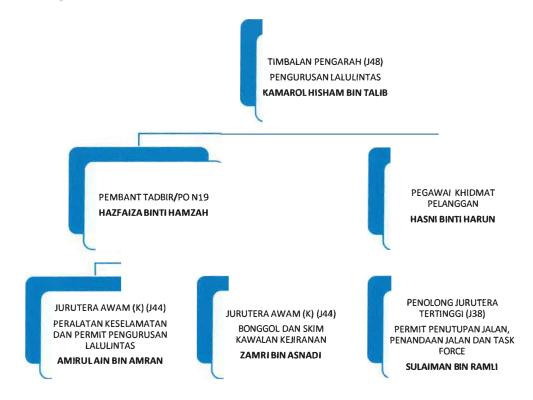


FIGURE: ORGANIZATION CHART OF JKAPB

### 1.4 Nature of Business

As I have explained in the introduction, JKAPB mostly will handled all the road closure, road marking, road furniture and transportation. Other than that, JKAPB also will handled all the DBKL project in Kuala Lumpur. Every contractor or event organizer that want to close the road in Kuala Lumpur for their project, required the permit of approval from this department. Therefore, this department is quite important in Dewan Bandaraya Kuala Lumpur to ensure all the road in Kuala Lumpur does not troubled the user.

### 1.5 Conclusion

As a conclusion, this department will take care of every road in Kuala Lumpur in terms of road improvement and closure. Without this department, Kuala Lumpur will be hustle and bustle than it already be.

### **CHAPTER 2: TRAINING ATTENDED**

### 2.1 Introduction

The operation hours were divided into three timing which is the first one from 7.30 am until 4.30 pm, the second one from 8.00 am until 5.00pm and the last one from 8.30 am until 5.30 pm. The time that I have chosen was from 8.00 am until 5.00 pm. All the practical student has been assigned a punch card to ensure that the attendance will always be recorded.

### 2.2 Exposure Level

During the duration of Industrial Training, I have experienced every aspect that I has learned in class but mostly I have improved on managing skills. All the time that I have spent on the Industrial Training at Jabatan Kejuruteaan Awam Dan Pengangkutan Bandar (JKAPB) mostly was doing management task. I mostly handling the Task Force meeting. The Task Force meeting actually was more complicated to handle than it seems as it needed communication skills, scheduling and accuracy. This is because every organizer and the contractor need to be contacted to inform them regarding the time, date and matter that will be discuss. Other than that, the Task Force panel need to be informed also. The panel consist of Timbalan Pengarah Encik Jeyapalan A/L K.Selvadurai, Encik Amirul Ain, Encik Sulaiman, representative from Malaysian Institute of Road Safety Research (MiROS), representative from PDRM and representative from Jabatan Penguatkuasa. All the panel will be receiving letter via fax. This will become the problem where the fax machine on the receiving end was under maintenance, it will result in the absence of the panel in the meeting. The way to overcome the problem by calling each of the panel to inform them to ensure they get the message because every panel has their respective roles and very important. The absence of the panel will result in delay of the approval. For event organizer, it may seems not much, but for contractor, it actually matter because the delay of the approval will result in the delay of the completion time of the project. Therefore, handling Task Force meeting teach me the accuracy of every work and how to manage and handle every problem persist as quickly as possible.





FIGURE: TASK FORCE MEETING

Other than that, I also have completed a few Bill of Quantities for road marking. During this task, I was required to capture a few pictures of the condition of road marking at the site. Therefore, I need to go to the site myself. The Bill of Quantities for road marking must be precise as the allocations for road marking only a few millions per year. Therefore, the allocation needs to be used up because it will be easier for the release of the tender. From this Bill of Quantities, I also learned that precision is important because during my Industrial Training, there a few problems persist for road furniture unit where the expense was more than the allocations. This proves that even smallest number can become great problem later on.



FIGURE: CONDITION OF ROAD FOR BILL OF QUANTITIES

Lastly, for the weeks that I was assigned at the construction site at Jalan Jelatek, I have been exposed on design and their flaws. This is because; the bridge project was delayed because of the overlapped with DUKE FASA 3 Project. This project limit of work has consumed the limit of work for the bridge project. The surveyor for DUKE project has miscalculated the distance for their pilling. The bridge project cannot be continued until the middle of September to wait the DUKE project to overcome their problem. From these problems, I have understood that real work of civil engineer was not an easy task that everybody can carry out. One problem can make others people life miserable.





FIGURE: VISIT TO CONSTRUCTION SITE

### 2.3 Conclusion

As a conclusion, every engineer required the accuracy, precision, managing skills and communication skills mastered in themselves as these is compulsory skill to go through life as an engineer. From this Industrial Training that I understand this field was crucial in the world and not an easy field to dive yourself in. Engineers basically bear countless responsibilities during the project.

### 3.4 Conclusion

As a conclusion, Jabatan Kejuruteraan Awam dan Pengangkutan Bandar plays a huge role in managing Kuala Lumpur in DBKL behalf. Without JKAPB, no department will handle the road closure, the maintenance of the road and all the DBKL project. So, by attending Industrial Training at JKAPB really teaches me that the real world was not easy as it seems.

### **REFERENCES**

- 1. Industrial Training Handbook
- 2. Minute Meeting of RB6305 CADANGAN MENGGANTIKAN JAMBATAN KONKRIT SEDIA ADA KEPADA JAMABTAN KONKRIT MERENTANGI SUNGAI KELANG DI JALAN JELATEK, KUALA LUMPUR.
- 3. Perkara Yang Anda Tidak Perlu Tahu Untuk Pengurusan Jalan Jilid 3 (Jabatan Kerja Raya)
- 4. Bahagian 10 Section 9A Concrete (UHPC)
- 5. Bahagian 10 Section 10 Piling Works

### **APPENDICES**

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### Appendix A: Form/Letter

- 1. Industrial Training Placement Information Form (UiTM.FKA.LI-01)
- 2. Industrial Training Application Letter (UiTM.FKA.LI-02)
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- 4. Industrial Training Placement Confirmation Form (UiTM.FKA.LI-04)
- 5. IT Report Duty Form (UiTM.FKA.LI-05)
- 6. Current Location Information Form (UiTM.FKA.LI-06)

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- 1. IT Report Evaluation Form (UiTM.FKA.LI-07)
- 2. IT Log Book Evaluation Form (UITM.FKA.LI-08)
- 3. Industrial Supervisor Evaluation Form (UiTM.FKA.LI-09)
- 4. Faculty Supervisor Evaluation Form (UiTM.FKA.LI-10)

Appendix C: Course Outcomes

Faculty of Civil Engineering Tel: 607-3818309 / 8339 / 8328 Fax: 607-3818141

### UNIVERSITI TEKNOLOGI MARA CAWANGAN JOHOR

Kampus Pasir Gudang, 81750 Masai, Johor. Te: 607–3818000 Fax: 607-3818141



UiTM.FKA.LI-01

### INDUSTRIAL TRAINING PLACEMENT INFORMATION FORM

(Borang Matlumat Penempatan Latihan Industri)

) STUDENT INFOR	MATIOTA (Mathamat , Clayar)	UiTM No. (No. UiTM)
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No. Bil.)  1. 2. C) ORGANIZA  Name (Nama) : Address (alamat):  Contact Person (Peg	State (Negeri)  TION INFORMATION (Matlumat organ	(Bendar)
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### Fakulti Kejuruteraan Awam Faculty of Civil Engineering

Tel: 607-3818309 / 8339 / 8328 Fax: 607-3818141

No. Kad Pengenalan: No. Pelajar UiTM

Program Semester

### UNIVERSITI TEKNOLOGI MARA CAWANGAN JOHOR

Kampus Pasir Gudang, 81750 Masai, Johor. Te: 607– 3818000 Fax: 607– 3818141



UiTM.FKA.LI-02

Surat Kami: 100-UiTMKPG(FKA14/3/4)

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	•				
Tuan,					
PERMOHONAN PENEMPATAN KEJURUTERAAN AWAM (EC110)	LATIHAN	INDUSTRI	BAGI	PROGRAM	DIPLOMA
Nama:					

- 2. Saya dengan ini mengesahkan bahawa butir-butir peribadi dan akademik di atas adalah seorang pelajar di Fakulti Kejuruteraan Awam, UiTM , Pasir Gudang.
- 3. Sukacitanya jika pihak Tuan dapat menerima pelajar tersebut untuk menjalani Latihan Industri untuk tempoh **LAPAN (8)** minggu bermula pada .....sehingga .....sebagai pra-syarat untuk lulus. Sebagai makluman, pelajar dilindungi oleh insurans sepanjang tempoh latihan.
- 4. Jika Tuan bersetuju untuk penempatan pelajar ini, saya memohon jasa baik pihak Tuan untuk memaklumkan kepada pihak saya dengan melengkapkan "Borang Pengesahan Penerimaan" (lampiran UiTM.FKA.LI-04) dalam tempoh **DUA (2)** minggu daripada tarikh surat ini. Jika tidak ada sebarang maklum balas daripada pihak Tuan, permohonan ini dianggap **TIDAK BERJAYA**.
- 5. Latihan industri yang akan dijalankan selama 8 minggu adalah sangat pendek, tetapi ia sangat bermakna untuk membantu Universiti dalam menghasilkan bakal jurutera yang berdedikasi, cekap dan berdaya saing selepas tamat pengajian.
- 6. Fakulti Kejuruteraan Awam UiTM Kampus Pasir Gudang amat menghargai kerjasama pihak Tuan dalam semua hal yang berkaitan dengan latihan industri pelajar Fakulti Kejuruteraan Awam UiTM Kampus Pasir Gudang.
  Terima kasih.

Yang benar,

Koordinator Latihan Industri Fakulti Kejuruteraan Awam UiTM Cawangan Johor Kampus Pasir Gudang.

s.k 1) Ketua Pusat Pengajian Kejuruteraan Awam, UiTM Pasir Gudang

INDUSTRIAL TRAINING

Example of Resume (CV) (UiTM.FKA.LI-03)

### **RESUME**

Photo

### PERSONAL DETAILS

Name

Identification No.

Date of Birth Place of Birth

Age

Sex

**Marital Status** 

Race

Religion

Citizenship

**Postal Address** 

Mobile Phone No.

E-mail

### EDUCATIONAL BACKGROUND

Year / Period	Institution	Level	Achievement / Award

### PEXTRA-CURRIGULAR ACTIVITIES

Year / Period	Programme / Activity	Location	Participation
	: 1		

### WORKING EXPERIENCE

Year / Period	Organisation	Designation	Responsibilities
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INDUSTRIAL TRAINING STUDENT HANDBOOK

Language skills :

Language	Written	Speaking

**Computer Literacy:** 

Other skills

n S			

No.	Description	
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### AGADEMIC REFEREES

2.

- 1. Name
- Designation
- Organisation:
- Tel. No. Email
- - Tel. No.

Name

Email

Designation

Organisation:

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### UNIVERSITI TEKNOLOGI MARA **CAWANGAN JOHOR**

Kampus Pasir Gudang, 81750 Masai, Johor. Te: 607-3818000 Fax: 607-3818141



UITM.FKA.LI-04

Rujukan Kami : 100-UITMKPG(FKA14/3/4) Tarikh

Koordinator Latihan Industri Fakulti Kejuruteraan Awam UiTM Johor Kampus Pasir Gudang, Jalan Purnama 81750 Masai Johor.

(u/p: Mohamed Khatif Tawaf, mohakhatif@johor.uitm.edu.my)

Fax:	07-3818141	-,oriakian	(a)01101.011111,eC	ıu.my)		
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Kami juga bersedia untuk menyediakan kemudahan berikut\*\*:

- 1. Penginapan
- 2. Pengangkutan
- 3. Makanan dan minuman
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- 5. Kemudahan lain (sila nyatakan jika ada):

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Sekian, terima kasih.

Yang benar,

(NAMA DAN COP ORGANISASI/SYARIKAT)

Sila faks / emailkan kembali surat ini kepada Fakulti Kejuruteraan Awam, UiTM Pasir Gudang selewat-lewatnya 2 minggu dari tarikh surat permohonan ini.

\* Potong mana tidak berkenaan.

\*\*sila tandakan (√) bagi yang berkaitan

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CAWANGAN JOHOR Kampus Pasir Gudang, 81750 Masai, Johor. Te: 607–3818000 Fax: 607-3818141



UiTM.FKA.LI-05

Our Reference: 100-UiTMKPG(FKA14/3/4)

To: Industry Training Coordinator Faculty of Civil Engineering Universiti Teknologi MARA Cawangan Johor Kampus Pa Jalan Purnama 81750 Masai	in to a	Date:	iTMKPG(FKA14/3/4)
Dear Sir / Madam	301101		=
INDUSTRIAL TRAINING REPORT SESSION	DUTY VERIFICATIO	N	
The above matter is referred.			
Please be informed that the company / organization on organization) as stated.	following studen	ts has reported for Inc.	dustrial Training to our ed by the company/
STUDENT NAME	•		
STUDENT NO.			
ID NO.	:		
PROGRAMME	:		
SEMESTER	:		
REPORT DATE	4		
INDUSTRIAL TRAINING ADDRESS	:		
DURATION / PERIOD	:		
Thank you.			w <sub>1</sub>
Yours sincerely,			

(Signature and Company /Organization Stamp)

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UITM.FKA.LI-06

### **CURRENT LOCATION INFORMATION FORM**

(Borang Matlumat Penempatan Semasa)

Name (Nama)	:	UITM No. (No. UITM)
Programme		<b>ID No.</b> (No. k/p)
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## UITM.FKA.LI-07

## UNIVERSITI TEKNOLOGI MARA CAWANGAN JOHOR

Kampus Pasir Gudang, 81750 Masai, Johor



INDUSTRIAL TRAINING STUDENT PLACEMENT REPORT

(Report Evaluation Form) A) Student Information Programme Name

**UITM No.** Date of Commencement:

Session

Date of Completion Semester ID No.

> B) Organization Information Organization

Name of Supervisor:

Designation

C) Faculty Supervisor Information

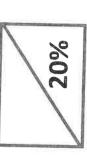
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- 4	CO-PO MARKS	/25	10/

Signature & Official Stamp (Faculty Supervisor)

Date



Report Evaluation Form

No conclusion on the training & provide no Organized and lacked The report is poorly achievement of evaluations on (Weak) both training of supporting outcomes & placement evidence UNIVERSITY TEKNOLOGI MARA outcomes & placement &evaluate the training the report is satisfactory with minimal clarity with minimal support The organization of Able to conclude (Average) Percentage earned from Report = <u>Total Marks Earned from Report</u> X 20% Able to conclude and evaluate the training the report is good and satisfactory evidence The organization of (Satisfactory) moderate clarity placement with Supported with outcomes & Yes % ..... outcomes & placement with substantial clarity The organization of the evaluate the training Would you recommended this workplace for future Industrial Training Student Able to conclude & substantial evidence CAWANGAN JOHOR report is good and Kampus Pasir Gudang, 81750 Masai, Johor (Doop) Supported with outcomes & placement &evaluate the training sufficient and relevant Able to conclude (Excellent) The report is well Supported with information clearly If NO, please specify the reason \*Please tick (V) at appropriate scale For Faculty Supervisor Response Conclude the findings Plagiarism as stated in outcomes of training & Recommendation for of Industrial Training Industrial Training Criteria Evaluations on Conclusion and suitability of the Writing Quality Writing Style placement. **UITM** Policy (CO1-PO5) (CO1-PO5) Š. Ś

UNIVERSITY TEKNOLOGI MARA

UITM:FKA.LI-07

Report Evaluation Form

INDUSTRIAL TRAINING STUDENT HANDBOOK

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### UITM.FKA.LI-08

INDUSTRIAL TRAINING LOGBOOK (Logbook Evaluation Form)

# UNIVERSITI TEKNOLOGI MARA CAWANGAN JOHOR Kampus Pasir Gudang, 81750 Masai, Johor



formation	
	formation
	A)

Name

Programme Session

Date of Commencement:

Date of Completion

Semester ID No.

UITM No.

B) Organization Information

Organization

Name of Supervisor:

Designation

C) Faculty Supervisor Information

Name :

D) Marks

Signature & Official Stamp

TOTAL MARKS

2 15

13

CO1-PO5

Criteria

Verification from supervisor

Date

/20

/20

CO-PO MARKS

Allocate problems & analysis

4.

Technical content

Attendance

7 m.



Logbook Evaluation Form

- 26 -

INDUSTRIAL TRAINING STUDENT HANDBOOK

Attendance must be at least 40 days including public holidays (if attendance is less than 40 days, the student will fail unless the Industrial Training with a legitimate Engineering content is not clearly described problems & analysis Unable to allocate related to real-life. Less than 50 % (Weak) Less than 7 signatures M. SUST. SUST UNIVERSITY TEKNOLOGI MARA described but technical Engineering content is At least 7 signatures related to real-life but not clearly described problems & analysis specification is not clearly described (Average) Able to allocate At least 50% Percentage earned from Logbook = <u>Total Marks Earned from Logbook</u> X 10% technical specification TAt least 8 signatures related to real-life but major description are problems & analysis (Satisfactory) Engineering and are described but major details are Able to allocate TAt least 80 % missing missing 20 % are described but some technical specification At least 9 signatures related to real-life but minor description are problems & analysis details are missing Engineering and **CAWANGAN JOHOR** Kampus Pasir Gudang, 81750 Masai, Johor UNIVERSITI TEKNOLOGI MARA Able to allocate 7 At least 90% (Dood) missing II More than 9 signatures All elements are clearly related to real-life and stated with evidence. problems & analysis (Excellent) clearly described Able to allocate 100% \*Please tick (V) at appropriate scal with additional technical specification (drawing, analysis to formulatio & Content at least 80% egineering technical Allocate problems & solution to real-life. Verification from design calculation, picture and safety Criteria Attendance. (CO1 - PO5)supervisor. UITM.FKA.LI-08 awareness). (CO1-PO5) (CO1-PO5) (CO1-PO5)Š. 'n m 4

Logbook Evaluation Form

INDUSTRIAL TRAINING STUDENT HANDBOOK

A) Student Information

UNIVERSITI TEKNOLOGI MARA CAWANGAN JOHOR Kampus Pasir Gudang, 81750 Masai, Johor

R INDUSTRIAL TRAINING	sors Evaluation Form)
PROGRESS REPORT FO	(Industrial Supervi



UITM No. Semester ID No. B) Organization Information Date of Commencement: Organization Programme Session

Date of Completion

C) Faculty Supervisor Information

Name of Supervisor:

Designation

Name :

D) Marks

TOTAL MARKS CO4-PO2 2 CO3-PO4 2 /5 CO2-P08 5 5 CO1-PO5 /5 2 /25 Scope of work and relate to theoretical knowledge Discussion with supervisor/co-workers Oral and written presentation skills Criteria CO-PO MARKS Application of knowledge Punctuality and Attitude Attendance verification Communication Ability Learning capability Organization skills Quality of work Co-operation Safety 10. 5. ė, 1 12. 4 7 œ. 6

Signature & Official Stamp

Date

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INDUSTRIAL TRAINING STUDENT HANDBOOK

Industrial Supervisors Evaluation Form

## UITM.FKA.LI-09

# UNIVERSITI TEKNOLOGI MARA CAWANGAN JOHOR Kampus Pasir Gudang, 81750 Masai, Johor



(Weak)	No verifcation by supervisor.	Poor punctuality and unable to adhere to rules and regulations	Fail to accomplish tasks assigned	Unable to learn despite with supervision	Unable to apply theoretical knowledge at work place	Fail to show any cooperation at all	Never have any discussion	Unable to communicate with co-workers
)	No verifcat supervisor.					Fail to cooper	Never have discussion	Unable to communic workers
2 (Average)	Fairly verified by supervisor.	Moderate punctuality with minimal adherence to rules and regulations	Able to accomplish part of the tasks with delay	Able to learn with substantial supervision	Able to apply minimal theoretical knowledge at work place	Give less co-operation	At least twice	Poor communication with co-workers
							Ò	
3 (Satisfactory)	Moderately verified by supervisor.	Punctual with satisfactory adherence to rules and regulations	Accomplish the task on time with minimum correction	Able to learn with supervisions	Able to apply acceptable amount of theoretical knowledge at work place	Always give satisfied co-operation	At least 4 times	Able to communicate satisfactorily with coworkers
4 (Good)	Satisfactory verified by supervisor.	Punctual with good adherence to rules and regulations	Accomplish the tasks on time with no correction	Able to act and learn with minimum supervisions	Able to apply substantial amount of theoretical knowledge at work place	Always give full co- operation when required	At least 6 times	Able to communicate with co-workers
5 (Excellent)	Constantly verified by supervisor.	Punctual with outstanding adherence to rules and regulations	Accomplish the tasks before the deadline with no correction	Demonstrate outstanding measures and proactive learning capability	Excellent demonstration of theoretical knowledge application at work place	Very proactive in giving co-operation	At least 8 times	Able to communicate effectively with coworkers
Criteria	Attendance verification (CO1 – PO5)	Punctuality and Attitude. (CO1-PO5)	Quality of work (task assigned). (CO1-PO5)	Learning capability. (CO2-PO8)	Application of knowledge. (CO2-PO8)	Co-operation . (CO3-PO4)	Frequency of discussion with supervisor/co-workers. (CO4-PO2)	Communication Ability. (CO4-PO2)
No.	÷		m,	4	ιċ	.9	7.	∞ <b>i</b>

UITM.FKA.LI-09

UNIVERSITI TEKNOLOGI MARA CAWANGAN JOHOR Kampus Pasir Gudang, 81750 Masai, Johor

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Š	. Criteria	5 (Excellent)	4 (Good)	3	7	_
Ġ	Oral and written	-1-0148	(5000)	(Satisfactory)	(Average)	(Weak)
.	presentation skills. (CO3 – PO4)	And to express and present very fluently and very convincing.	Able to express and present fluently and convincing.	Able to express and present quite fluently and quite convincing.	Able to express and present clearly but with minimum fluently	Unable to express and present clearly
10.	Organization skills in	Well-expiration		langua d	. (	allu lack of fillency.
	invdividual and group effextiveness and its activity. (CO4-PO2)	background and workplace activity	Substantial explanation on background and workplace activity	Acceptable explanation on background and workplace activity	Able to explain background and workplace activity with	Unable to explain background and workplace activity
Ė.	Ability to explain scope	L			minimal clarity	
	of work and relate to theoretical knowledge. (CO1-PO5)	scope of work and able to relate to theoretical knowledge	Substantial explanation on the scope of work and able to relate to theoretical knowledge	Acceptable explanation on the scope of work with minimal relationship to theoretical knowledge	Minimal explanation on the scope of work with minimal relationship to theoretical knowledge	Unable to explain the scope of work and fail to relate to theoretical
12.	Safetv. (CO1-POE)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				knowledge
		Safety requirements	Adhere to safety requirements most of the time	Adhere to safety requirements satisfactorily	Minimal adherence to safety requirements	Unable to adhere To safety requirements
*Plea	*Please tick (v) at appropriate scale	scale				

Percentage from Progress Report = Total Marks Earned From Progress Report X 50%

09

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CAMPANGAN JOHOR

Kampus Pasir Gudang, 81750 Masai, Johor

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UNIVERSITY TEKNOLOGI MARA

(Faculty Supervisors Evaluation Form) A) Student Information UITM No. Semester ID No. Programme

B) Organization Information Date of Commencement: Session

Date of Completion

Name of Supervisor: Organization Designation

C) Faculty Supervisor Information

Name :

D) Marks

09/ TOTAL MARKS 'n 5 CO4-P02 2 /10 CO2-PO8 CO3-PO4 /10 5 5 5 3 2 /25 CO1-PO5 Scope of work and relate to theoretical knowledge Discussion with supervisor/co-workers Oral and written presentation skills CO-PO MARKS Application of knowledge Punctuality and Attitude Attendance verification Communication Ability Learning capability Organization skills Quality of work Co-operation Safety 10. 11. 12. 9 Ŋ. ∞i o,

Signature & Official Stamp (Faculty Supervisors)

Date



Faculty Supervisors Evaluation Form

theoretical knowledge Poor punctuality and rules and regulations communicate with counable to adhere to No verifcation by Fail to accomplish cooperation at all Unable to learn Unable to apply Fail to show any tasks assigned Never have any (Weak) at work place despite with supervisor. supervision discussion Unable to UNIVERSITY WANT OF Able to accomplish part adherence to rules and of the tasks with delay substantial supervision MARA Moderate punctuality theoretical knowledge Able to apply minimal Give less co-operation Poor communication Able to learn with Fairly verified by (Average) with co-workers with minimal at work place At least twice supervisor. egulations Moderately verified by satisfactory adherence on time with minimum theoretical knowledge acceptable amount of Accomplish the task Always give satisfied Able to communicate satisfactorily with co-(Satisfactory) Able to learn with At least 4 times Punctual with Able to apply at work place to rules and Supervisions supervisor. regulations co-operation correction Accomplish the tasks on time with no correction Able to apply substantial Satisfactory verified by adherence to rules and amount of theoretical Able to act and learn Punctual with good Able to communicate knowledge at work Always give full co-Kampus Pasir Gudang, 81750∘Masal, Johor CAWANGAN JOHOR UNIVERSITI TEKNOLOGI MARA (poog) operation when with co-workers At least 6 times with minimum supervisions regulations supervisor. required |Demonstrate outstanding outstanding adherence to of theoretical knowledge application at work place before the deadline with Excellent demonstration measures and proactive Constantly verified by Very proactive in giving rules and regulations Accomplish the tasks Able to communicate (Excellent) learning capability effectively with co-Frequency of discussion | At least 8 times Punctual with no correction supervisor. co-operation workers Attendance verification Communication Ability. Quality of work (task assigned). (CO1-PO5) Learning capability. vorkers. (CO4-PO2) Criteria with supervisor/co-Punctuality and Application of Co-operation, (CO1 - PO5) UITM.FKA.LI-10 knowledge. (CO1-PO5) (CO2-PO8) Attitude. (CO2-PO8) (CO3-PO4) (CO4-PO2) Š. 'n m 4 ιý ဖ တ

Faculty Supervisors Evaluation Form

workers

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UNIVIACEIT TERMOLOGI MARA GAWANGAN JOHOR Kampus Pasir Gudang, 81750 Masai, Johor

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Š.	. Criteria	5 (Excellent)	4 (Good)	3 (Satisfactory)	2 (Averade)	1 Autority
<u>.</u>	Oral and written presentation skills. (CO3 – PO4)	Able to express and present very fluently and very convincing.	Able to express and present fluently and convincing.	Able to express and present quite fluently and quite convincing.	Able to presen	Unable to express and present clearly and lack of fluency.
10.	Organization skills in invdividual and group effextiveness and its activity. (CO4-PO2)	Well-explained on background and workplace activity	Substantial explanation on background and workplace activity	Acceptable explanation on background and workplace activity	Able to explain background and workplace activity with minimal clarity	Unable to explain background and workplace activity
#	Ability to explain scope of work and relate to theoretical knowledge. (CO1-PO5)	Well-explained the scope of work and able to relate to theoretical knowledge	Substantial explanation on the scope of work and able to relate to theoretical knowledge	Acceptable explanation on the scope of work with minimal relationship to theoretical knowledge	Minimal explanation on the scope of work with minimal relationship to theoretical knowledge	Unable to explain the scope of work and fail to relate to theoretical knowledge
15.	Safety. (CO1-PO5)	Always adhere to safety requirements	Adhere to safety requirements most of the time	Adhere to safety requirements satisfactorily	Minimal adherence to safety requirements	Unable to adhere To safety requirements
*Ple	*Please tick (V) at appropriate scale	ale				
		Percentage fi	Percentage from Progress Report = <u>Total I</u>	Report = <u>Total Marks Earned From Progress Report</u> X 20% 60 =	port X 20%	

Faculty Supervisors Evaluation Form

# COURSE OUTCOMES - PROGRAMME OUTCOMES MATRIX

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				ASSES\$MENT	Placement Report a Form) ty Supervisors. Ity Supervisors	y Supervisors. ty Supervisors	y Supervisors. ty Supervisors	y Supervisors. Ity Supervisors
				ASSES	Academic Advisor (Placement Report and Logbook Evaluation Form) Industrial and Faculty Supervisors. (Industrial and Faculty Supervisors Evaluation Forms)	Industrial and Faculty Supervisors. (Industrial and Faculty Supervisors Evaluation Forms)	Industrial and Faculty Supervisors. (Industrial and Faculty Supervisors Evaluation Forms)	industrial and Faculty Supervisors. (Industrial and Faculty Supervisors Evaluation Forms)
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			S	P07	,			
-			PROGRAM OUTCOMES	P06				
TUDY	>		AM OU	POS	7		я	
CENTRE OF STUDY	PREPARED BY		PROGR	P04			7	
CENTE	PREP/	DATE		PO3				
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	JSTRIAL TRAINING		LEVELS	AFFECTIVE	-	=	2	=
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ECM376	INDU	4.0	TAXO	COGNITIVE				
COURSE CODE	COURSE NAME	CREDIT HOURS		COURSE OUTCOMES (use verbs according to taxonomy)	<ol> <li>Practice good working ethics and quality delivery of project undertaken.</li> </ol>	2. Exhibit pleasant interpersonal skills as an individual in working independently, collaborative and in multidisciplinary team.	<ol> <li>Practice good organizational skills in enhancing individual and group effectiveness and productivity.</li> </ol>	4. Exhibit good communication with fellow workers and supervisors in issues related to projects undertaken.

## Program outcome for EC110

PO2 - Ability to communicate effectively, not only with engineers but also with the public (A)

PO4 – Ability to act effectively as an individual and as group with leadership capabilities (A)
PO5 – Understanding of the social, cultural, global, environmental responbilities, ethics and the needs for sustainable development (A)
PO8 – Ability to function in multidisciplinary teams (A)

# INDUSTRIAL TRAINING STUDENT HANDBOOK

CADANGAN MENGGANTIKAN JAMBATAN KONKRIT SEDIADA KEPADA JAMBATAN KONKRIT BARU MERENTANGI SUNGAI KELANG, DI JALAN JELATEK, KUALA LUMPUR

		.5		SONST	CONSTRUCTION DRAWING	N DR	WING		_
		i i		REV	REV / DATE RECEIVED	RECE	VED		ı
No.	DRAWING DESCRIPTION	KEF.NO	0	1	7	m	4	w	_
7	SCINIMINGS	RB 6305/BR3/LOD/01 31/5/2018	31/5/2018		-				_
0		RB 831/BR3/LOC/01 31/5/2018	31/5/2018						
7	LOCATION PLAN	RB 831/BR3/RD/01	31/5/2018						
က	ROAD LAYOU! PLAN		31/5/2018		29/5/2019				
4	DRAINAGE LAYOU! PLAN	RB 831/BR3/RD/03	31/5/2018						-
2	ROAD FURNITURE LAYOU! PLAN	RB 831/BR3/RD/04	31/5/2018						
9	PROFILE CH. 940M TO CH. 1220M	RB 831/BR3/RD/05	31/5/2018						
-	TYPICAL DETAIL OF WASH TROOG!	RB 831/BR3/RD/06	31/5/2018						-
∞	ELEMENIS OF CORVES	RB 831/BR3/RD/07	31/5/2018						
ກ (	CROSS SECTION AND PAVEMENT DETAILS OF EXISTING PAVEMENT	RB 831/BR3/RD/08	31/5/2018						Т
2	KEGULATION AND TREATMENT OF EXCHANGE AND SHIMP	RB 831/BR3/RD/09	31/5/2018		29/5/2019				
	I YPICAL DETAILS OF TROW DIVING AND COM	RB 6305/BR3/RD/09B 16/3/2019	16/3/2019						1
5	DELAIL OF SOME NO. 191	RB 831/BR3/RD/10	31/5/2018						Т
7 5		RB 831/BR3/RD/11	31/5/2018				9		
5 2	_	RB 831/BR3/RD/12	31/5/2018						
+ 4 1		RB 831/BR3/RD/13	31/5/2018						7
5 4	_	RB 831/BR3/RD/14	31/5/2018						T
7 2	$\neg$	RB 831/BR3/RD/15	31/5/2018						
- 00	_	RB 831/BR3/RD/16	31/5/2018						Т
6	$\neg$	RB 831/BR3/RD/17	31/5/2018						T
20		RB 831/BR3/RD/18	31/5/2018						1
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3 1		RB 831/BR3/ST/01	31/5/2018				-		
23	т	RB 831/BR3/ST/02	31/5/2018						
2 4	7	RB 831/BR3/ST/03	31/5/2018	16/3/2019					
	7	RB 6305/BR3/ST/03B	16/3/2019						
25	_	RB 831/BR3/ST/04	31/5/2018						
2 8		RB 831/BR3/ST/05	31/5/2018						Т
2 12	_	RB 831/BR3/ST/06	31/5/2018						
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CADANGAN MENGGANTIKAN JAMBATAN KONKRIT SEDIADA KEPADA JAMBATAN KONKRIT BARU MERENTANGI SUNGAI KELANG, DI JALAN JELATEK, KUALA LUMPUR

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				4				
28	DETAILS OF ABUTMENT - REINFIRCEMENT OF WINGWALL & APPROCH	RB 831/BR3/ST/07	31/5/2018					
	SLAB	RB 831/BR3/ST/08	31/5/2018					
20	DESCAST GIRDER ARRANGEMENT LAYOUT & GIRDER SEATING DETAILS	RB 831/BR3/ST/09	31/5/2018					
3 2	P. C. DECK SI AB REINFORCEMENT & PARAPET WALL DETAILS	RB 831/BR3/ST/10	31/5/2018					
2 6	REDITENCE OF CONSTRUCTION (1 OF 2)	RB 831/BR3/ST/11	31/5/2018					
22 22	SECUENCE OF CONSTRUCTION (2 OF 2)	RB 831/BR3/ST/12	31/5/2018					
3 2	NEW IERSEY PARAPET DETAILS	RB 831/BR3/ST/13	31/5/2018					
ל ה ה	_	RB 831/BR3/ST/14	31/5/2018					
3 8		RB 831/BR3/ST/15	31/5/2018	16/3/2019				
2 6	_	RB 831/BR3/ST/16	31/5/2018		m	20/4/2019		
38 8	STEEL TRUSS - SECTION	RB 831/BR3/ST/17	31/5/2018		3/11/2018	5/12/2018 27/12/2018	16/3/2019	
9	STEEL TRIESS - PILING I AYOUT PLAN	RB 831/BR3/ST/18	31/5/2018		27/12/2018 16/3/2019	16/3/2019		
3 8		RB 831/BR3/ST/19	31/5/2018					
	STEEL TRUSS - DIMENSION & REINFORCEMENT DETAIL (PIER 3)	RB 6305/BR3/ST/19A 3115/2018	31/5/2018		3/11/2018 27/12/2018	27/12/2018		
14	STEEL TRUSS - DIMENSION & REINFORCEMENT DETAIL (PIER 2)	RB 831/BR3/ST/20	31/5/2018		5/12/2018 16/3/2019	16/3/2019		
42	STEFI TRUSS - DIMENSION & REINFORCEMENT DETAIL (PIER 4 & 5)	RB 831/BR3/ST/21	31/5/2018		27/12/2018			
43	STEEL TRUSS ELEVATION 12.45m - (NO.1)	RB 831/BR3/ST/22	31/5/2018		19/10/2018	20/4/2019		
	STEEL TRUSS ELEVATION 26.80m - (NO.3)	RB 6305/BR3/ST/22A		19/10/2018	20/4/2019			
44	STEEL TRUSS ELEVATION 50m - (NO.2)	RB 831/BR3/ST/23	31/5/2018		19/10/2018			
45	STEEL TRUSS ELEVATION 50m - (NO.3)	RB 831/BR3/ST/24	31/5/2018					
46	STEEL TRUSS ELEVATION 50m - (NO.4)	RB 831/BR3/ST/25	31/5/2018		19/10/2018			
47	STEEL TRUSS ELEVATION 46m - (NO.5)	RB 831/BR3/ST/26	31/5/2018		19/10/2018 27/12/2018	27/12/2018	15/2/2019	
48	STEEL TRUSS DETAILS 50m - SHEET 1 OF 3	RB 831/BR3/ST/27	31/5/2018					
49		RB 831/BR3/ST/28	31/5/2018					
25	T	RB 831/BR3/ST/29	31/5/2018					
27		RB 831/BR3/ST/30	31/5/2018					
52	$\top$	RB 831/BR3/ST/31	31/5/2018					
53	T	RB 831/BR3/ST/32	31/5/2018					
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# JABATAN KEJURUTERAAN AWAM & PENGANGKUTAN BANDAR DEWAN BANDARAYA KUALA LUMPUR

# CADANGAN MENGGANTIKAN JAMBATAN KONKRIT SEDIADA KEPADA JAMBATAN KONKRIT BARU MERENTANGI SUNGAI KELANG, DI JALAN JELATEK, KUALA LUMPUR

# CONSTRUCTION DRAWINGS

MAY 2018



CONTROLLED COPY

Buinar 200

JURUTERA PERUNDING:

## ranhill consulting son. bhd. SUITE 2302, LEVEL 23 PLAZA PERMATA,

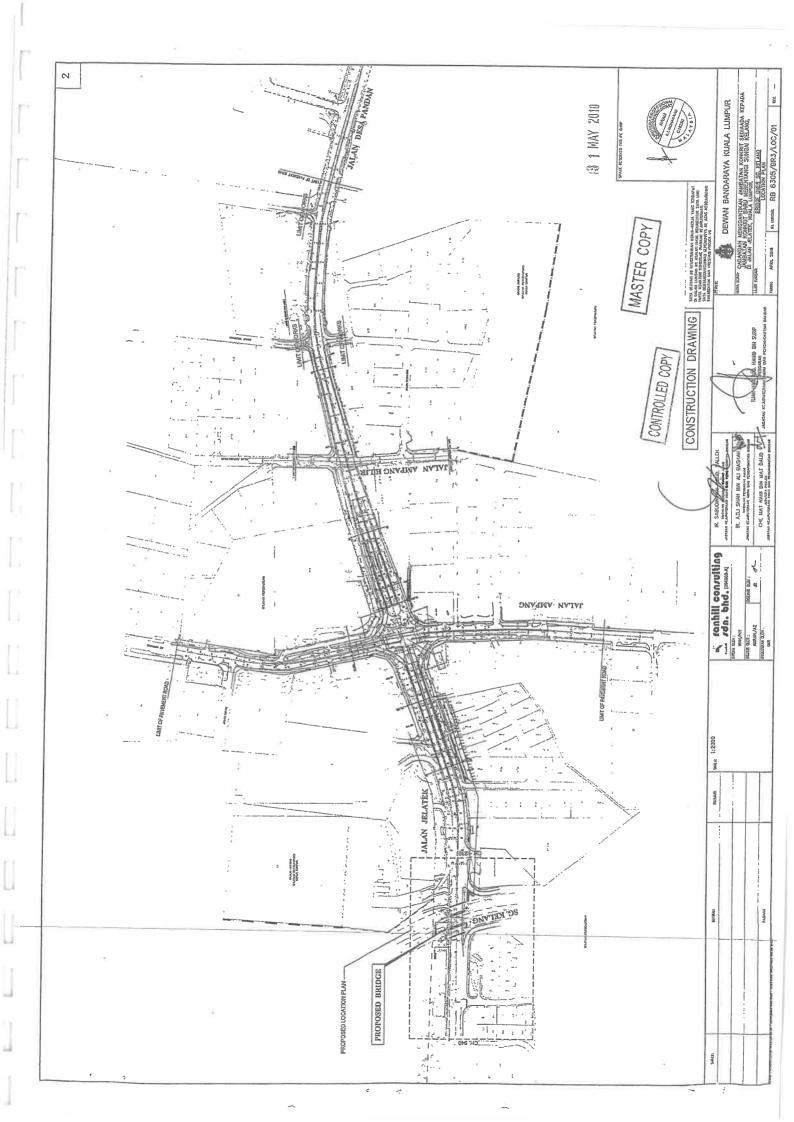
ABATAN KEJURUTERAAN AWAM & PENGANGKUTAN BANDAR

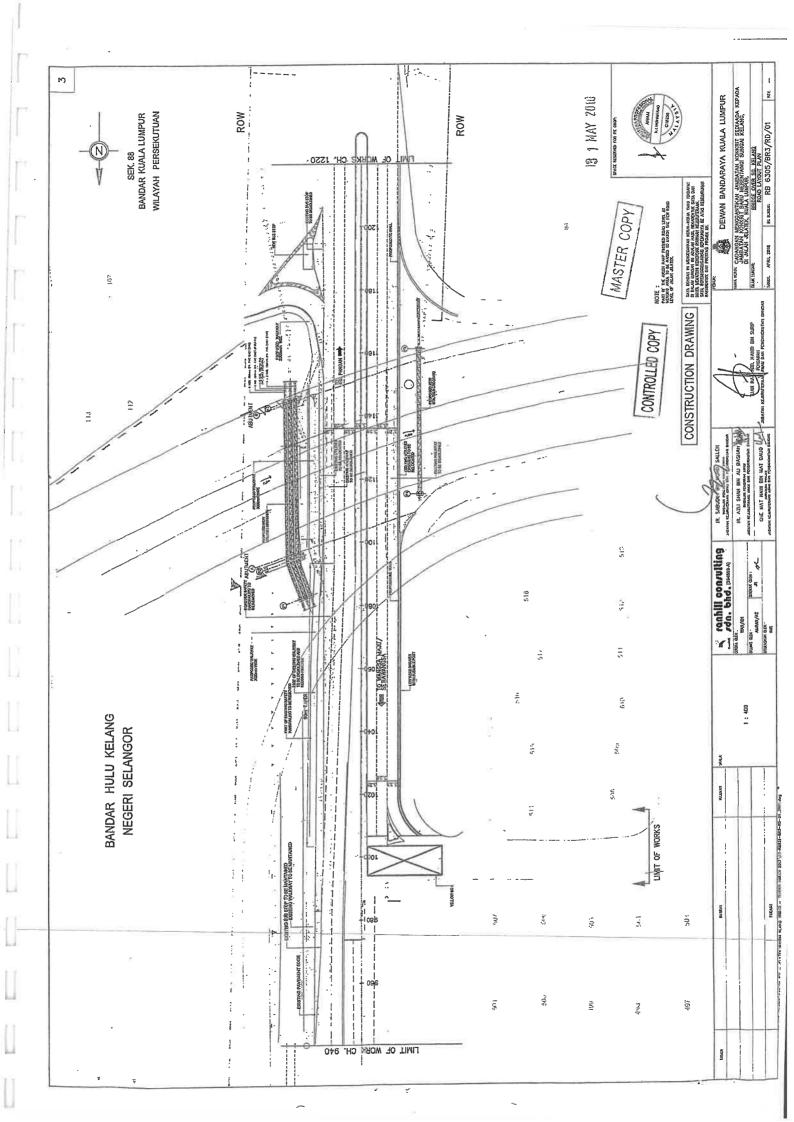
PECAWAI PENGUASA ENGARAH DEWAN BANDARAYA KUALA LUMPUR TINGKAT 17-19, BANGUNAN DEWAN BANDARAYA

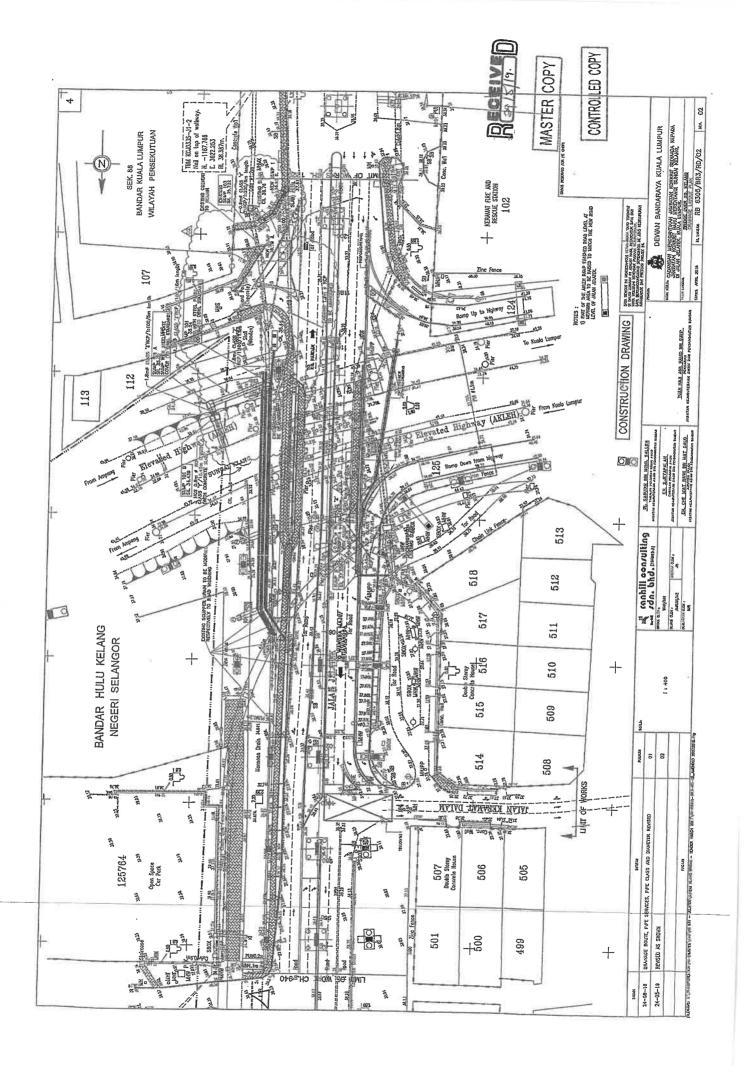
JALAN RAJA LAUT SOSSO KUALA LUMPUF

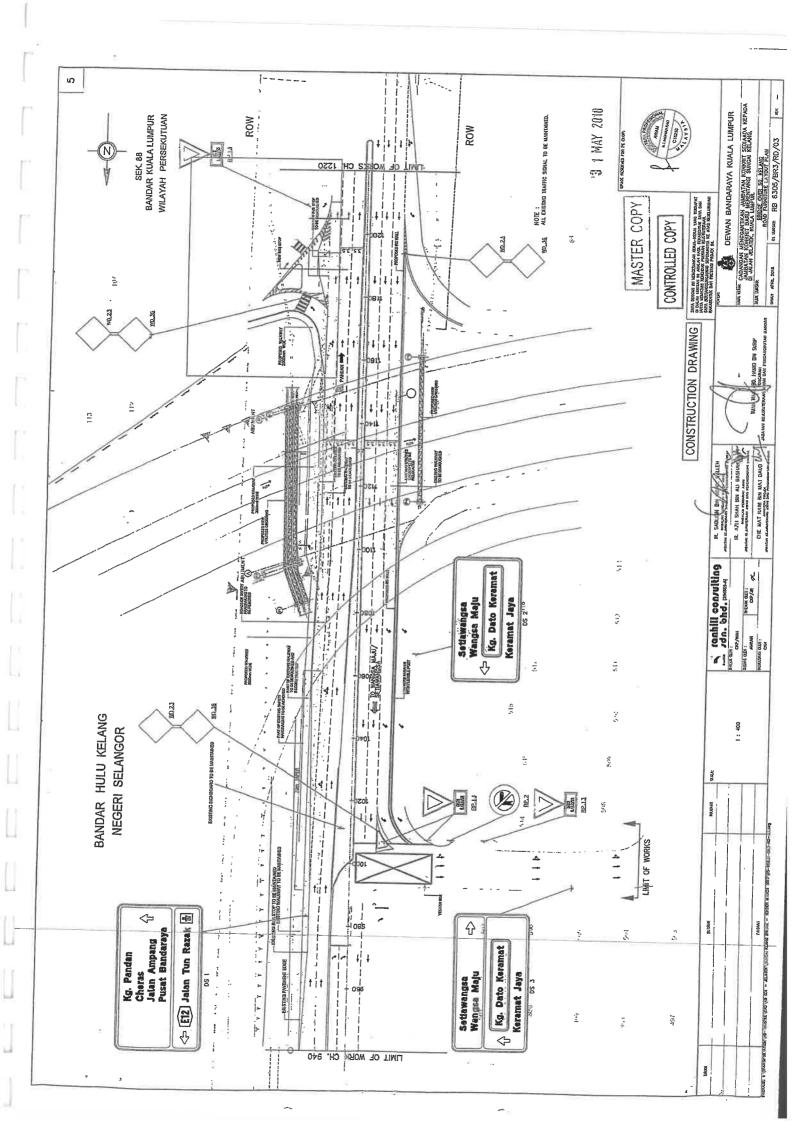
NO, 6 JALAN KAMPAR OFF JALAN TUN RAZAK 50400 KUALA, LUMPUR TEL, 03-2716888 FAX, 03-2716889

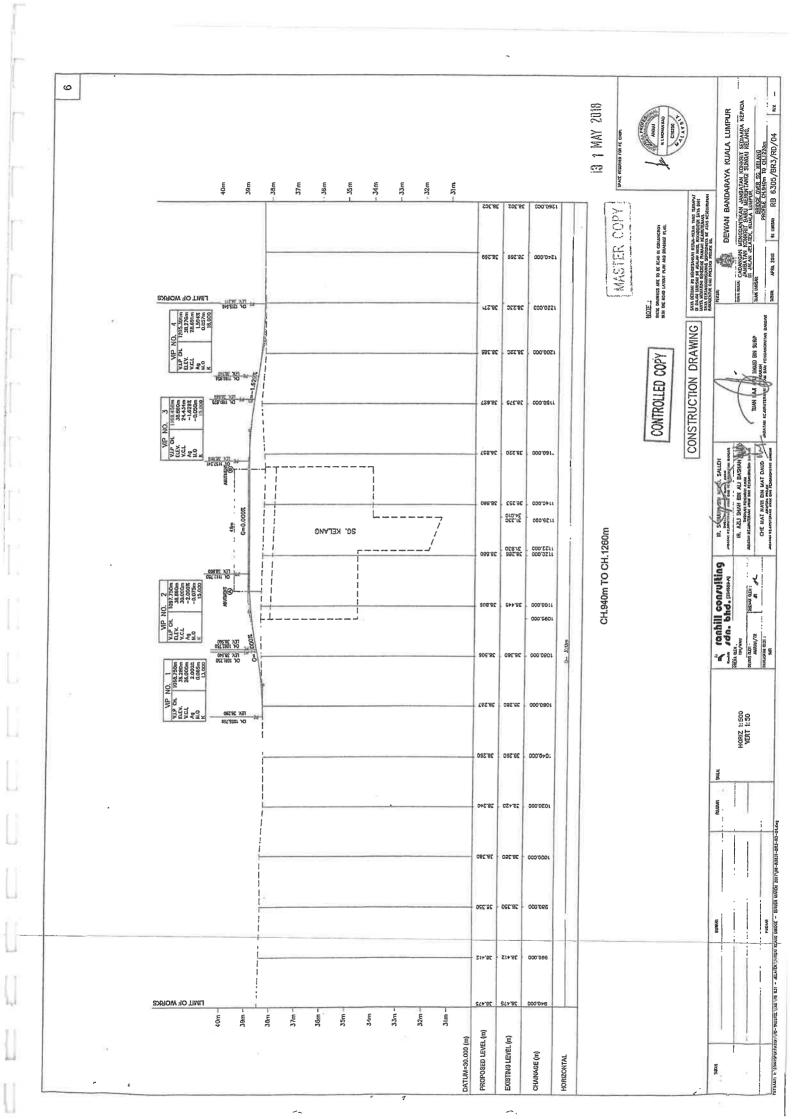
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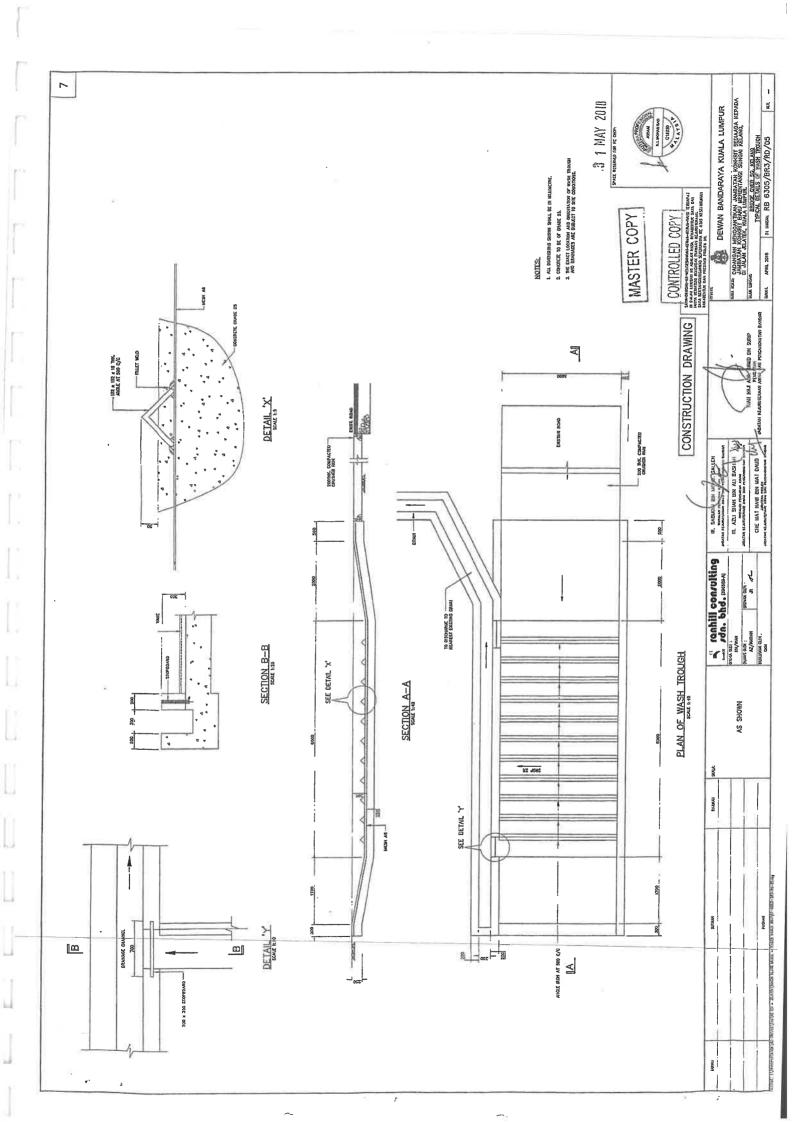


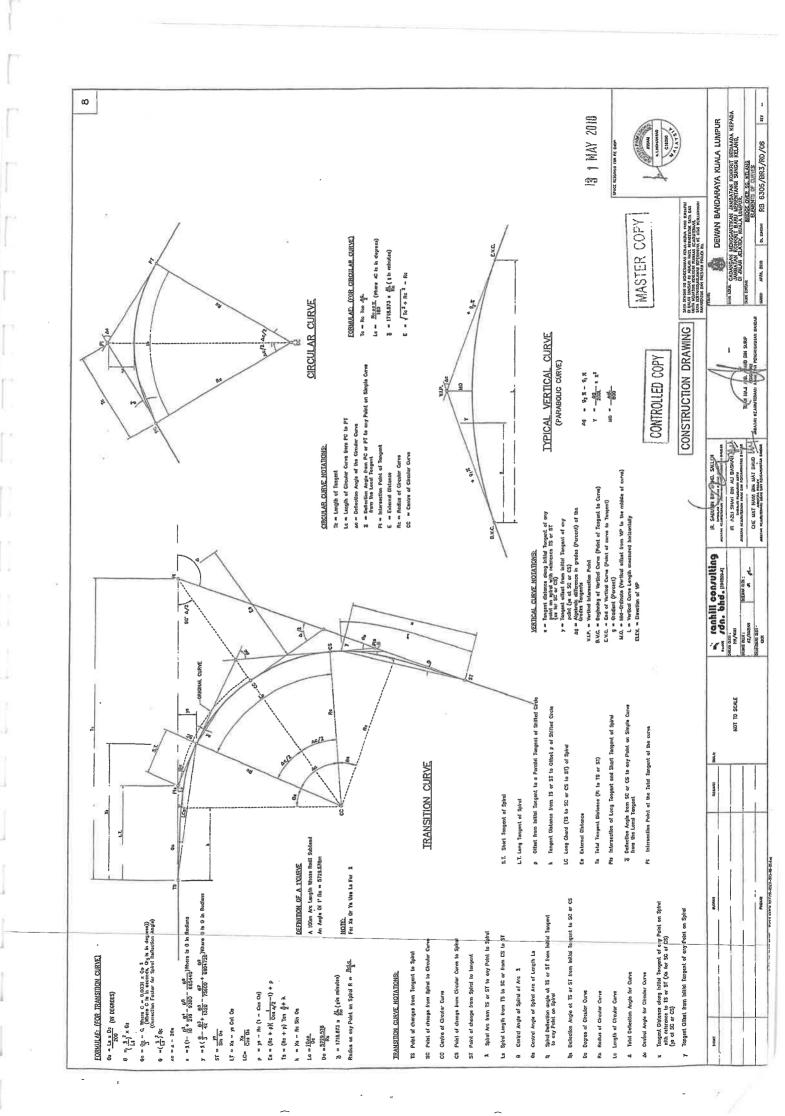


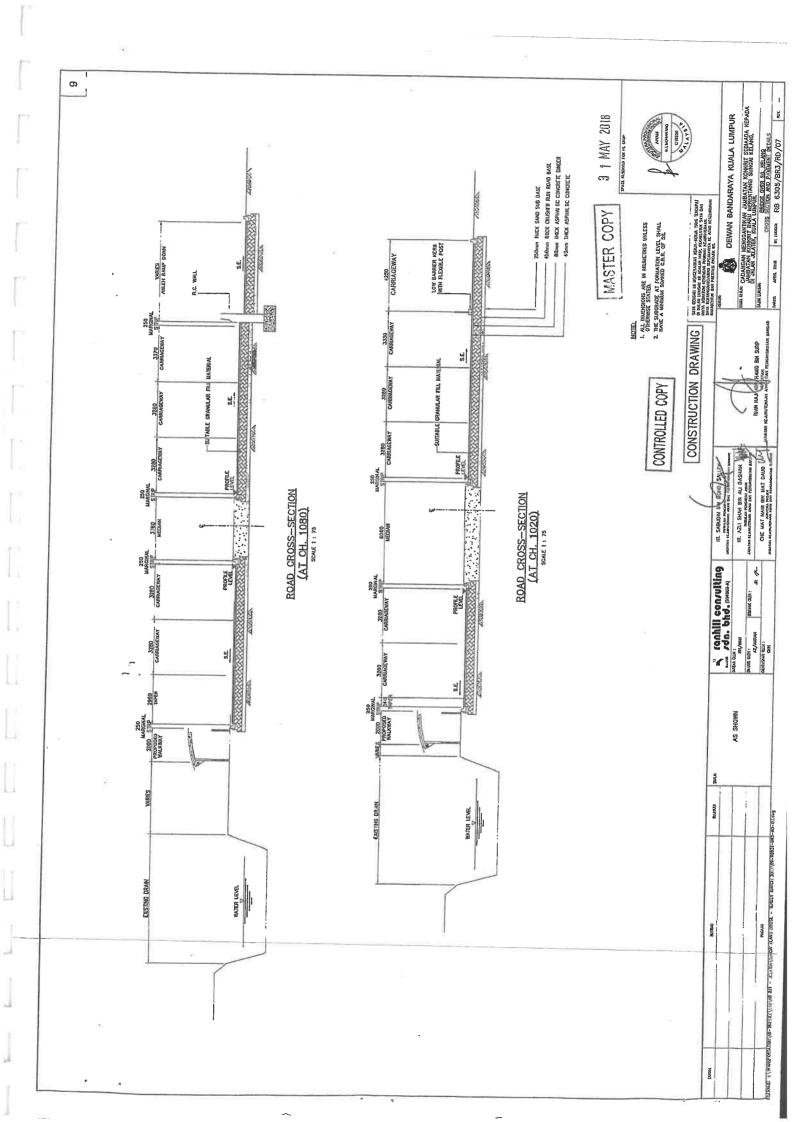


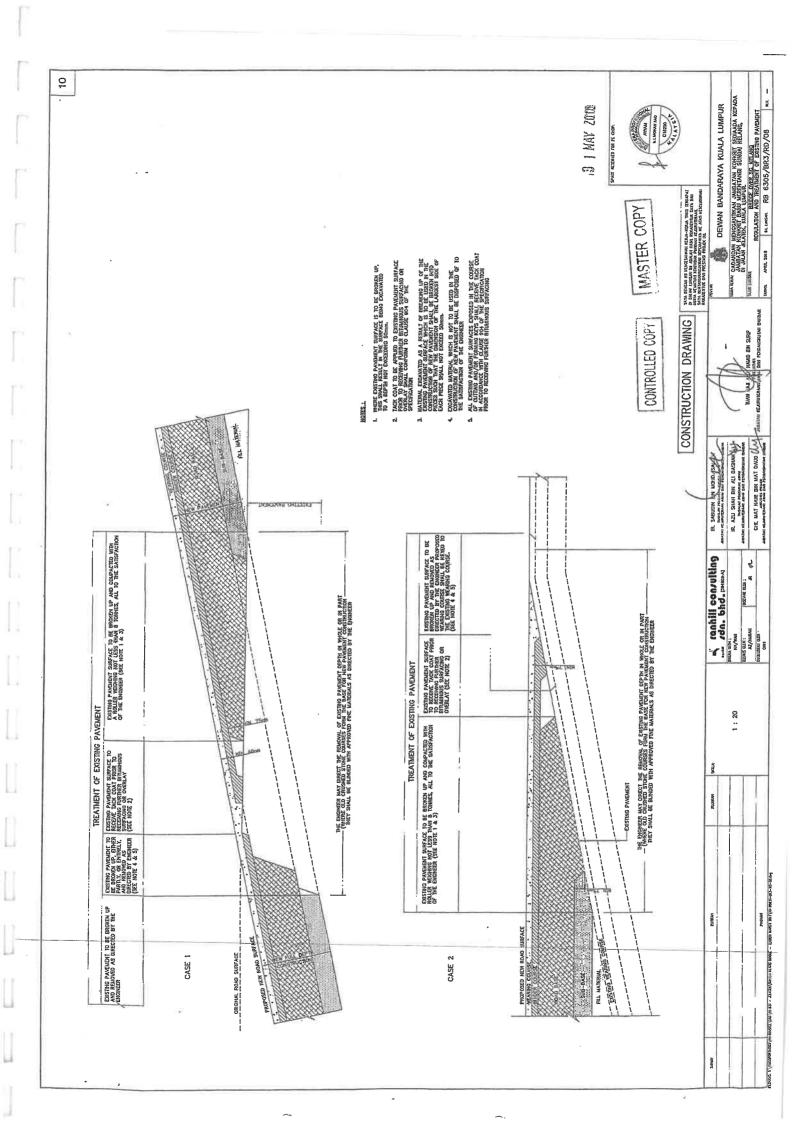


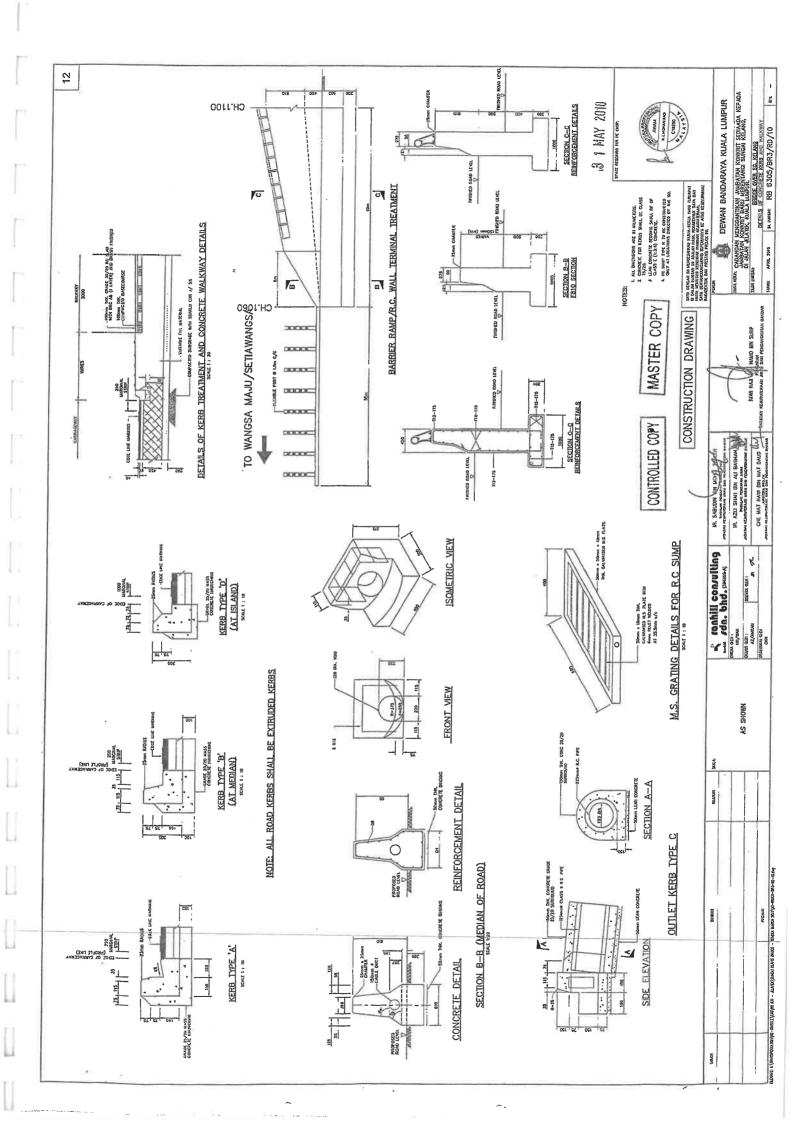


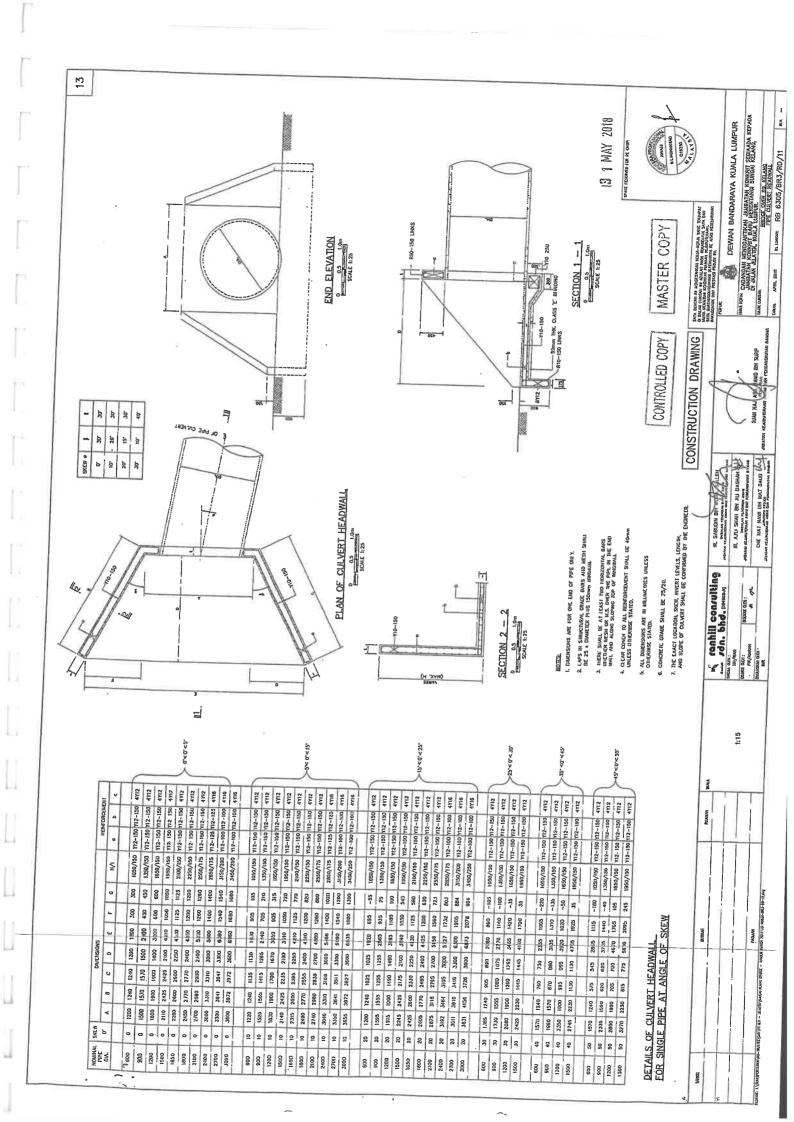


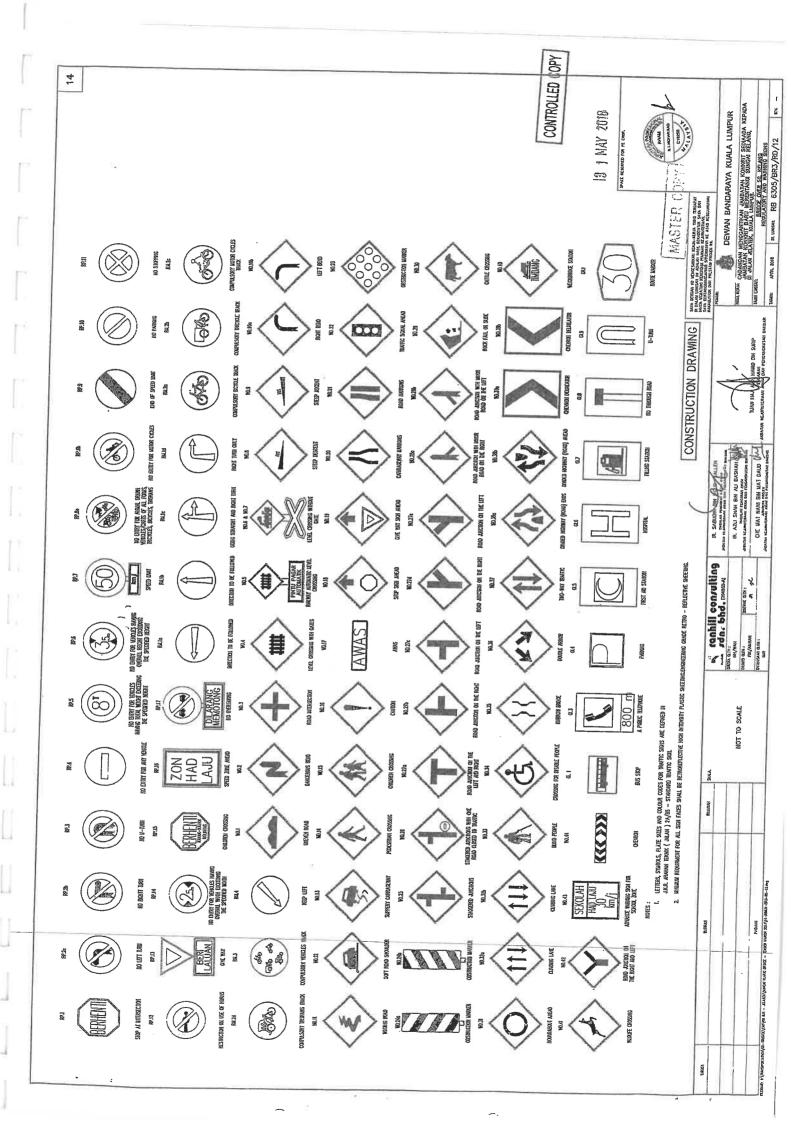


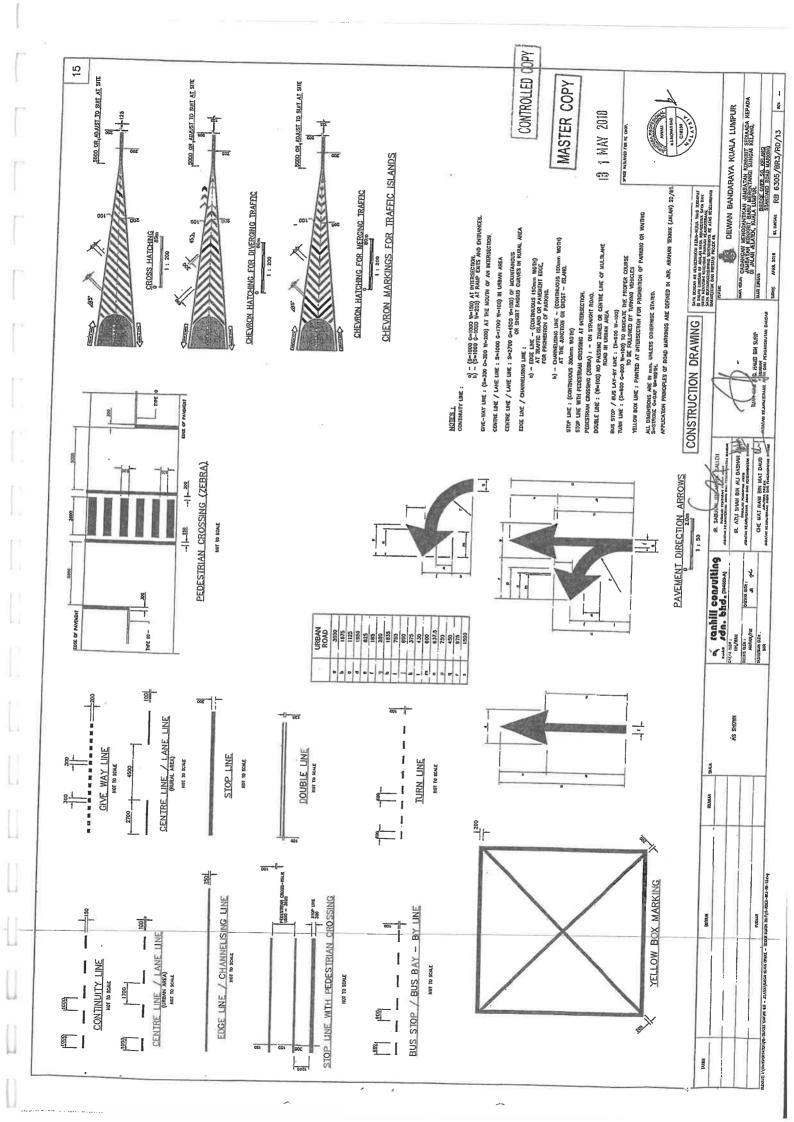














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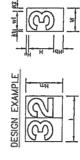
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3	0.091	0.073	0,909	1.073	0	0.055	0.051	0.655	0.770
٥	0.164	0.079	0.824	1.067	0	0.048	0.121	0,685	0.855
3	0.164	0.115	0.691	0.970		0.063	0.005	0.655	0.800
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¥	0.164	0.015	0.806	0.988		0.097	0.042	0.867	0.806
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0	0.091	0.091	0.964	1,145	g	0,055	0.115	0.679	0.848
~	0.158	0.097	0.788	1,042	-	0.109	0.055	0,418	0.582
ęs	0.073	0.115	0.855	1.042		0.038	0.067	0.618	0.721
	0.027	0.027	0,782	0.836	-	0,055	9500	0.497	0.608
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>	0.058	0.058	0.836	0,982	,	50.0	2000	0.679	0.758
M	0.079	0.079	1,236	1,394	*	0.055	0.055	1.030	1.138
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Z 0.061 0.079 0.848 z 0.055 0.667 0.667



Ampang

DESIGN EXAMPLE

Height of upper case latter ; - H = 330 mm NUMBER TYPE - NORMAL to calculate width of " 32 ' ;-

CONTROLLED COPY

Where # W = W3 + W2
kl = Constant for Brst number \* 3 \*
k2 = Constant for last number \* 2 \*

(4W-( KI+K2))H

MASTER COP/

BINK 2GG

= ( (0.933 + 0.848 ) - (0.051 + 0.091 ) ) x 330 = (1.781 - 0.152 ) X 330 = (1.629)X 330

To calculate height of mosale ( Hm. )

Hm. = Hu + h + Hb = 0.085 ( 330 ) + 330 + 0.364 ( 330 ) = 478.17mm soy 478mm



ARCH AFRE, 2010

STANDARD HORMAL ETTERNO AND NUMERALS
IN LINEOUL RB 6305/BR3/RD /14

RM -

OF SIGNBOARD

NUMBER

BUTPUS

PARAOS

WE SUMMERSON THE WASTERSTANDED BY

WHITE BACKGROUND BLACK BORDER CREEN BACKGROUND WHITE BORDER

Height of upper case felter : -- H = 330 mm

to calculate width of " Ampong " :-

ETTER TYPE - NORMAL

ki = Constant for first letter ' A '

Mere # WA + Wm + ....... Wg

(4 H - ( KI + K2 ) ) H

Venins
Venins
Venins
Venins
2 R x L
15 R x L or 20 mm whichers is greater
0.5 x 8
Colonicided from letters and specings

TYPICAL GENERAL LAYOUT DESIGN

- 0.085 ( 330 ) + 330 + 0.364 ( 330 )

Im. - No + to + Hb - 0.085 H

= 478.17mm say 478mm

to colculate height of mosalo ( Hm. )

= (5.575 - 0.163) × 330 = (5.412) × 330 1785,96mm asy 1786mm CONSTRUCTION DRAWING

TUAN B. HAKID BIN SURAP Penchani Matan Kanbu Banda Ban dan pencambanan

CHE MAI NAYN BIN MAT DAUD WAT DANNE SLEWN STATES THE STATES STATES STATES THE SHAPE SHAPE

A renhill convolting

 $\bigcirc$ 

(A)

NORMAL NUMBERS

42

<u>(2)</u>

W

(I)

о Ол.

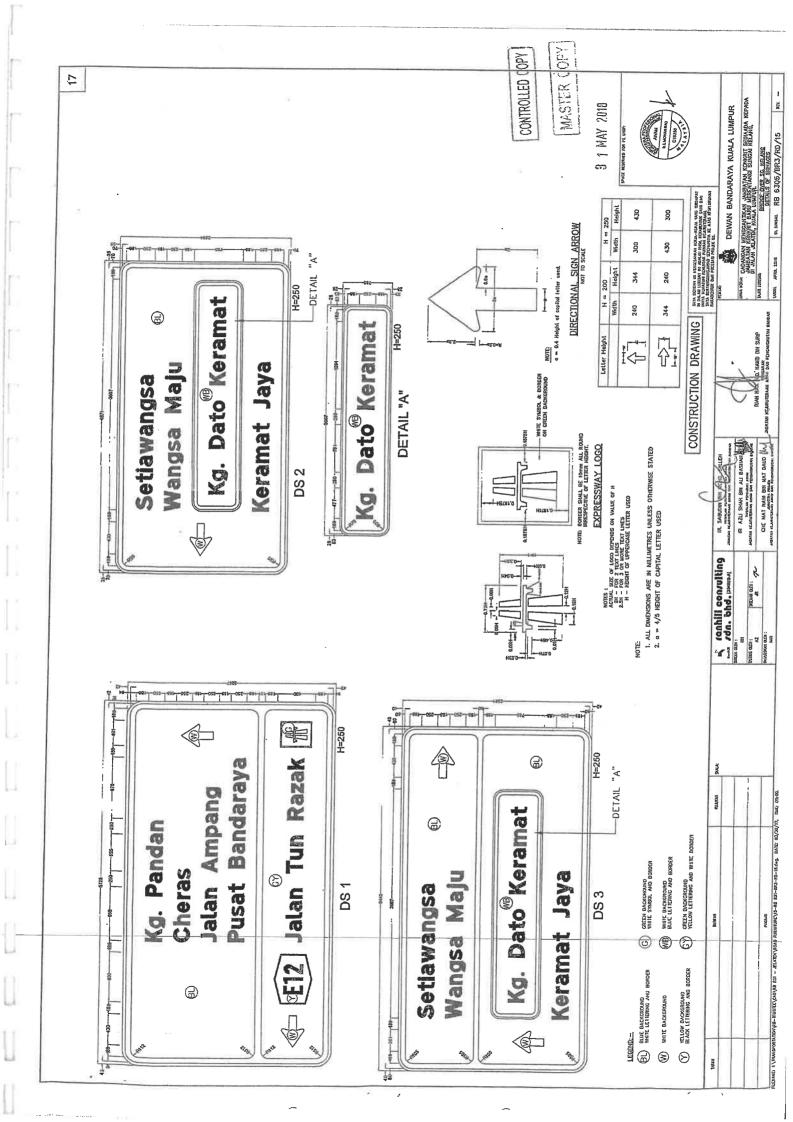
0

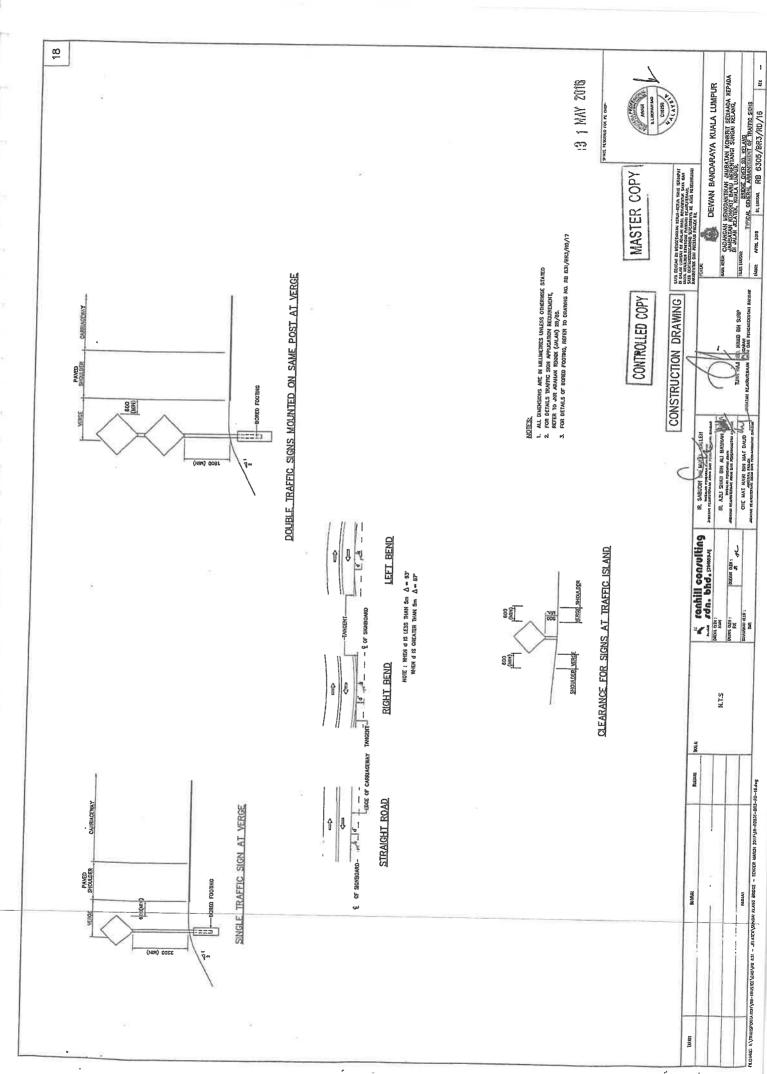
" ( (1.018 + 1.230 + 0.861 + 0.784 + 0.842 + 0.830 )-(0.048+ 0.115 ) ) x 330

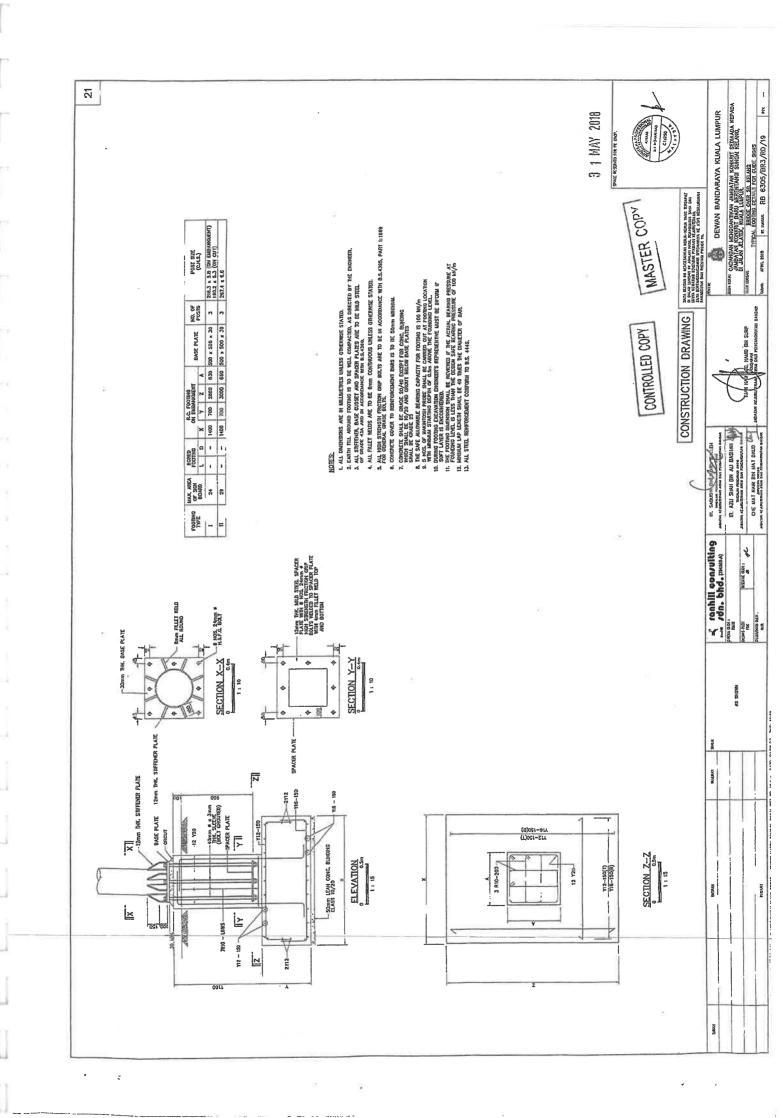
= 537.57mm say 538 mm

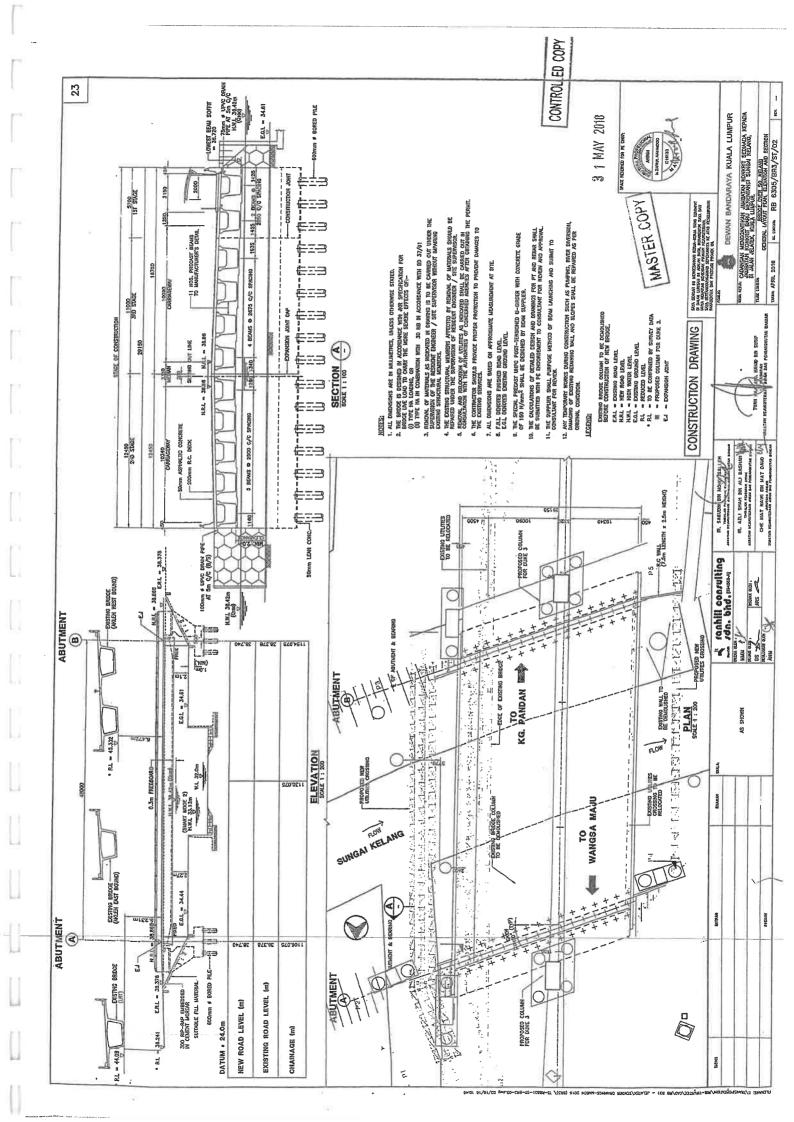
DEWAN BANDARAYA KUALA LUMPUR

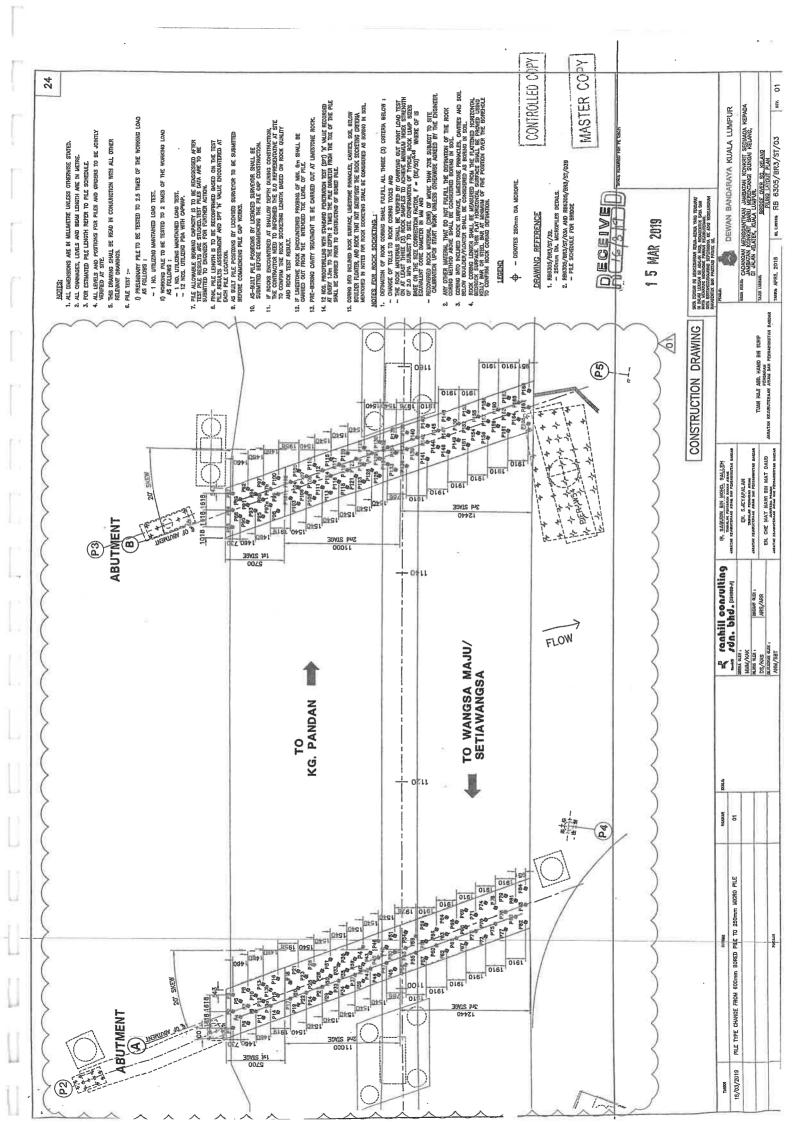
WAN TEAN CADANGAN MENGGANTIKAN JAMBATAN KONRRIT SEDIAMDA KEPADA AMABATAN KONRIT BARU MERENTANGI SUNGAI KELANG, GI JALAN BLATEK, KUAL LUAPIR. BRIGGE DRE SIL KA ANG











DRAWING REFERENCE

1. RB 6305/BR3/ST/03.

— PILNG LAYOUT PLM.
2. RB6305/BR3/ST/16.

— 250mm DM. MICROPILES DETAILS.

PILE SCHEDULE FOR NEW BRIDGE

ROCK SOCKET LENGTH (m)

ESTIMATED PILE LENGTH BELOW CUT-OFF WITH ROCK SOCKET (m)

WORKING LOAD ON SINGLE PILE

PILE TYPE

PILE DIA.

PILE ID.

PILE SCHEDULE FOR NEW BRIDGE

3.0 3,0 3.0 3.0

> 900 kN 800 KN

250 mm

250 mm

MICROPILE

250 mm

2 53 900 KN

NN 008

250 mm

ABUTMENT A

3,0 3.0 3.0

3.0

49.5 49.5 49.5 49.5

800 kN

MICROPILE 250 mm MICROPILE 250 mm MICROPILE 250 mm MICROPILE MICROPILE

250 mm

910 P12 P13

69

11

800 KN 900 kN 99 3.0 3,0 3.0 3.0 3.0 3.0 3,0 3,0 3.0 3.0 3,0

> 49.5 49.6 49.5 49,5

MICROPILE MICROPILE MICROPILE MICROPILE

250 mm

250 mm

MICROPILE

900 KN

250 mm

250 mm

P17

49.5

800 KN 900 kN BOO KN 800 kN NX 006 800 kN NA 008 NN DOS 800 kN NX OOB SOO KN 900 kN

BOO KN

250 mm mm 250 mm

250

900 KN 900 kM

250 mm

ROCK SOCKET LENGTH (m) 3.0 3.0 3.0 3.0 0.5 3.0 3.0 3.0 0.5 3.0 en en 9,5 9.5 9.5 8.5 8.8 9.5 9,5 8.5 8.0 8.0 8.0 0.0 6.0 8.0 8.0 8.0 8.0 8.0 8.0 0,8 8,0 0.8 7,5 7.5 ESTIMATED PILE LENGTH BELOW CUT-OFF WITH ROCK SOCKET (m) 49.5 49.5 30.5 30.5 30.5 30.5 30.5 28.0 28,0 28.0 28.0 WORKING LOAD ON SINGLE PILE 900 kM 800 KN 800 kN 900 kN NX 008 800 kN 800 KN 800 kN 800 kN NN OOB NN 006 NX 008 NN 008 800 kN 900 kN NX 008 900 KN 800 kN NN 008 800 kN 900 KN 900 kN 900 kN 900 kN NN 008 900 kM SOO KN 900 KN 900 KN 900 kN 800 kN 900 kN NN 008 900 kN 900 KN NN 008 900 KN 800 KN PILE TYPE MICROPILE MICROPILE MICROPILE MICROPILE MICROPILE MICROPILE MICROPALE 250 mm MICROPILE 250 mm MICROPILE MICROPILE MICROPILE MICROPILE PILE DIA. 250 mm 1 250 mm P66 P58 D80 P84 P65 P89 P70 P59 P83 P72 174 P73 P74 P83 PILE ID. P81 P62 P87 P75 P80 PSB 879 P79

0.0

49.5

49,5 49.5 49.5

BOD MN

MICROPILE MICROPILE MICROPILE MICROPILE

P22

MICROPILE

250 mm

mm 250 mm 250 mm 250 mm

250

P18 P20 P21

49.5 49.5 49.5

BOC KN

250 mm 250 mm 3.0 80.0 3.0 3.0 3.0 3.0 3,0

800 kM NN OOB

250 mm MICROPILE MICROPILE MICROPILE MICROPILE MICROPILE

P23 P24 P28 P28 P29 P29 P30

250 mm

250 mm

250 mm 250 mm 250 mm 250 mm ᄪ

250 mm

NA 008

900 KN

49.5 49.5 49.5

NN 006

250 mm

P3 22

900 KN

900 kN 800 kN NN 008

MICROPILE

49.5

3.0 3.0 3.0 3.0

> NN 006 900 kN

250 mm

P35 P36 P36

250 mm

P39

P40

49.5

900 KN

mm MICROPILE

E

P42

49,5 49.5 49.5 5 MAR 2019

SACO ALLEYS

SANA DDIRON BU INDIREGAHIANI KINJA-KEDA YAND TBIDART IN DALAH UNBASHI IN AMARIN KASI BADBERIN, SANA DAI KHYA TBANDO KOBSOW PAWAN KILINDINGSANA BANA BERTAKORIZINGA SEPERINANI KILINDINGAN WADBERTAK DAI PRESINSI PRADE IN K

CONSTRUCTION DRAWING

DEWAN BANDARAYA KUALA LUMPUR 1

NUM KERAN CADANGAN HENGGANTIKAN JAMBATAN KONKRIT SEDUADA KEPADA JAMBATAN KONKRIT BAND MERENTANG SUNGA KELANG, DI JALAN JEATER, KUJA, LUJPOR,

TARK UNDSAM

TUAN HAJ! ABD. HAMD BIN SURIP PERGARAH JABATAN KEAMTUTERAAH AWAM DAH PENGANGKUTAN E

EM. CHE MAT NAWI BIN MAT DAUD AMATAN REGULTERAL AND PROMISEN MANAGEMENT AND DAY PROMISENTAL MANAGEMENT OF PROMISENTAL PARTIES.

USENIK OLEH I

PREALH

E. ranhill contulting DESCUSSAN OLEH 2 DLUKS OLEH 1

ЕМ, S., ЕКУАРАLAN тыласан Реколем айла албатан келиптелан айла Реколем

IR, SABUDIN BIN MOHD, SALLEH
THERALM PETROAMH KAND NYAN
MARTH KENHUTZAAN MAGU DIN PERSUNWITH BARGA

NUMBERN

TARGOL

PILE SCHEDULE FOR NEW BRIDGE (ABUTHENT A)

10. LUMSAN RB 6305/BR3/ST/03A

8 REY.

TARRON

