



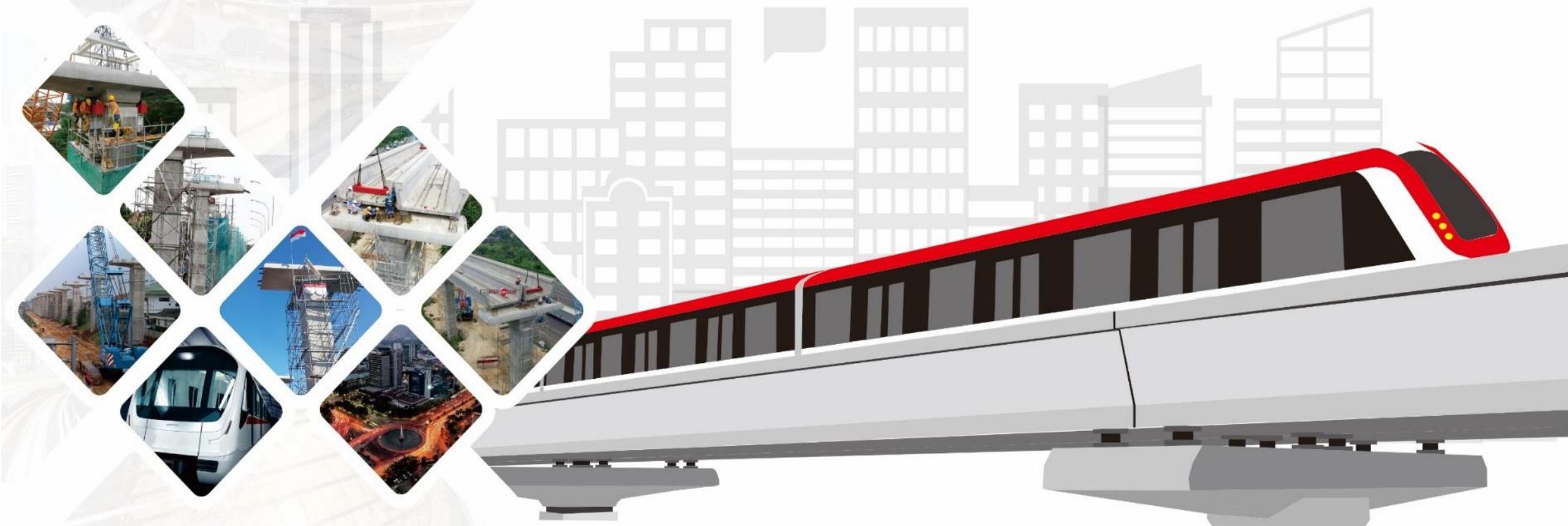
MINISTRY OF TRANSPORTATION

# KERETA API RINGAN / LIGHT RAIL TRANSIT

TERINTEGRASI DI WILAYAH JAKARTA, BOGOR, DEPOK DAN BEKASI



PT ADHI KARYA (Persero) Tbk.



**KUNJUNGAN BANK INDONESIA**  
23 MARET 2017



## 1. | GENERAL OVERVIEW





**940** THOUSAND TRIPS  
BURDENS DKI JAKARTA

**EVERY WEEKDAYS**



## PERPRES 98 TAHUN 2015

PRESIDEN  
REPUBLIK INDONESIA

PERATURAN PRESIDEN REPUBLIK INDONESIA

NOMOR 98 TAHUN 2015

TENTANG

PERCEPATAN PENYELENGGARAAN KERETA API RINGAN/  
*LIGHT RAIL TRANSIT* TERINTEGRASI DI WILAYAH  
 JAKARTA, BOGOR, DEPOK, DAN BEKASI

DENGAN RAHMAT TUHAN YANG MAHA ESA

PRESIDEN REPUBLIK INDONESIA,

Menimbang : a. bahwa untuk meningkatkan pelayanan transportasi dalam mendukung pembangunan di wilayah Jakarta, Bogor, Depok, dan Bekasi, perlu dilakukan percepatan penyelenggaraan Kereta Api Ringan/*Light Rail Transit* terintegrasi di wilayah Jakarta, Bogor, Depok, dan Bekasi yang ramah lingkungan;

b. bahwa untuk percepatan penyelenggaraan Kereta Api Ringan/*Light Rail Transit* terintegrasi sebagaimana dimaksud pada huruf a, Pemerintah menugaskan Badan Usaha Milik Negara;

c. bahwa berdasarkan pertimbangan sebagaimana dimaksud huruf a dan huruf b, perlu menetapkan Peraturan Presiden tentang Percepatan Penyelenggaraan Kereta Api Ringan/*Light Rail Transit* terintegrasi di wilayah Jakarta, Bogor, Depok, dan Bekasi;

Mengingat : 1. Pasal 4 ayat (1) Undang-Undang Dasar Negara Republik Indonesia Tahun 1945;

## CHANGES

## SUBSECTION 2

- 1<sup>st</sup> sentence: Additional scope of work for Depo
- 2<sup>nd</sup> sentence: The use of rail road width of 1.435 mm
- 5<sup>th</sup> sentence: The construction work of Jabodebek LRT is constructed since signed PERPRESS

## SUBSECTION 3

- The change of flow and process of contractual timeline in LRT JABODEBEK

## SUBSECTION 7

- The payment will be done in every service lines. PT Adhi Karya (Persero) Tbk will be paid after finishing and constructing every service lines.
- The fund will be allocated from Anggaran Belanja Kementerian Perhubungan
- The contract agreement is done by the ministry of finance

## SUBSECTION 8

- The price includes the bank interest in construction period (during construction) and the payment period

## SUBSECTION 14

- Having License from the related area that is passed by LRT JABODEBEK routes

## SUBSECTION 16

- PT KAI have been assigned as means organizer, operator, and sustainers

## PERPRES 65 TAHUN 2016

PRESIDEN  
REPUBLIK INDONESIA

PERATURAN PRESIDEN REPUBLIK INDONESIA

NOMOR 65 TAHUN 2016

TENTANG

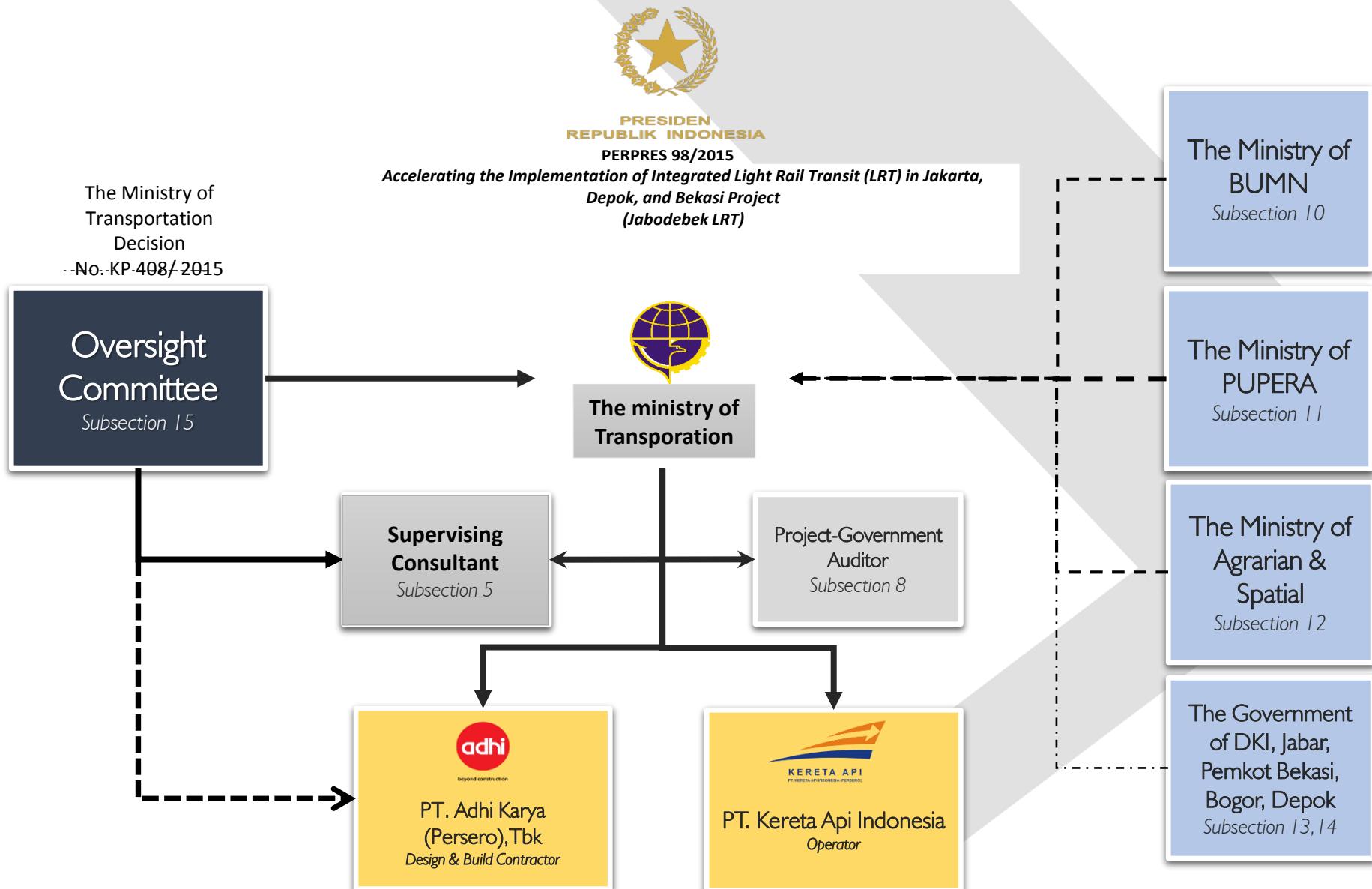
PERUBAHAN ATAS PERATURAN PRESIDEN NOMOR 98 TAHUN 2015  
 TENTANG PERCEPATAN PENYELENGGARAAN KERETA API RINGAN/*LIGHT RAIL TRANSIT* TERINTEGRASI DI WILAYAH JAKARTA, BOGOR, DEPOK, DAN BEKASI

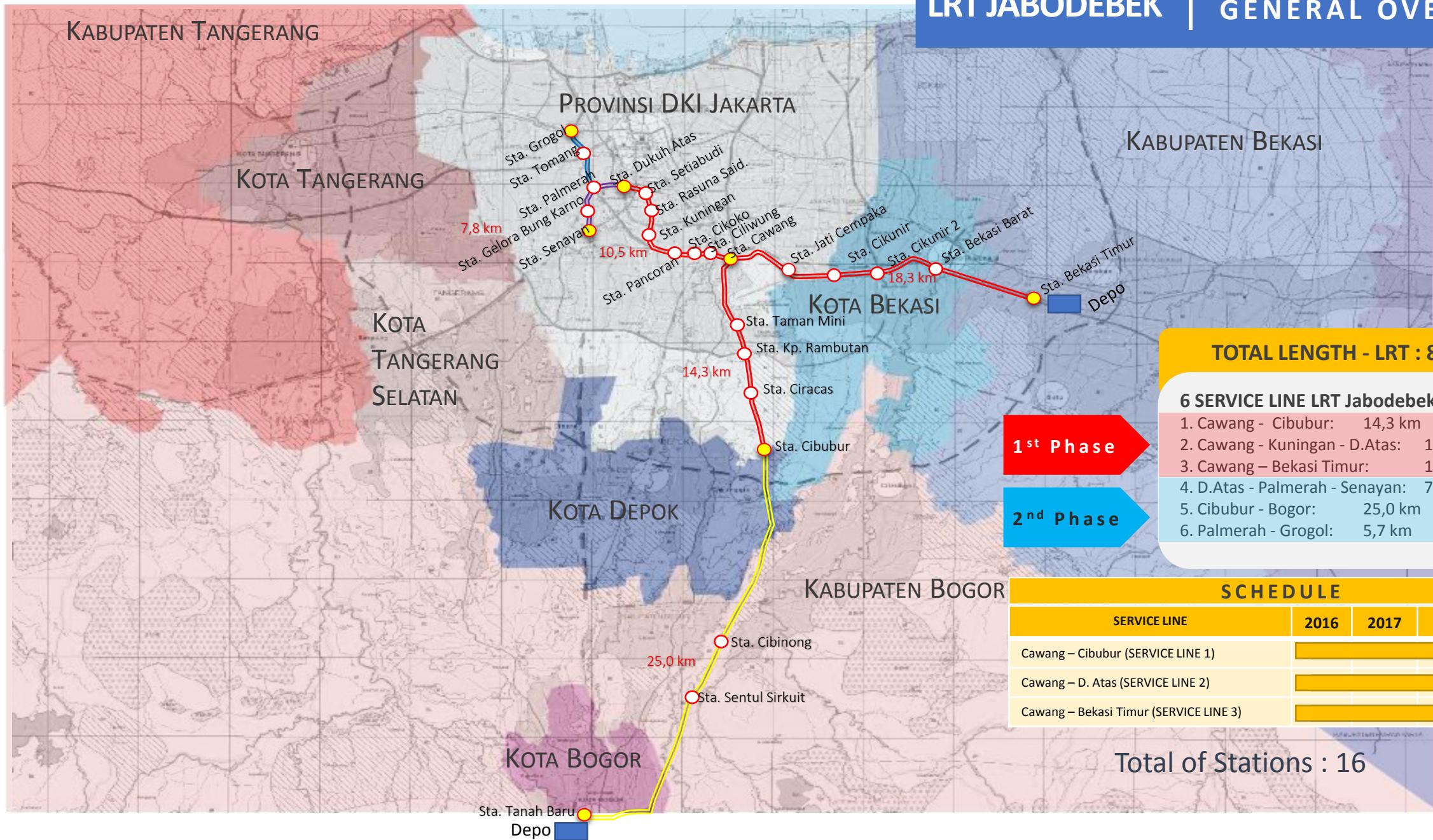
DENGAN RAHMAT TUHAN YANG MAHA ESA

PRESIDEN REPUBLIK INDONESIA,

Menimbang : a. bahwa dalam rangka percepatan Penyelenggaraan Kereta Api Ringan/*Light Rail Transit* terintegrasi di wilayah Jakarta, Bogor, Depok, dan Bekasi, perlu melakukan penyempurnaan terhadap pengaturan mengenai pelaksanaan penugasan pembangunan prasarana dan penyelenggaraan sarana Kereta Api Ringan/*Light Rail Transit* terintegrasi di wilayah Jakarta, Bogor, Depok, dan Bekasi;

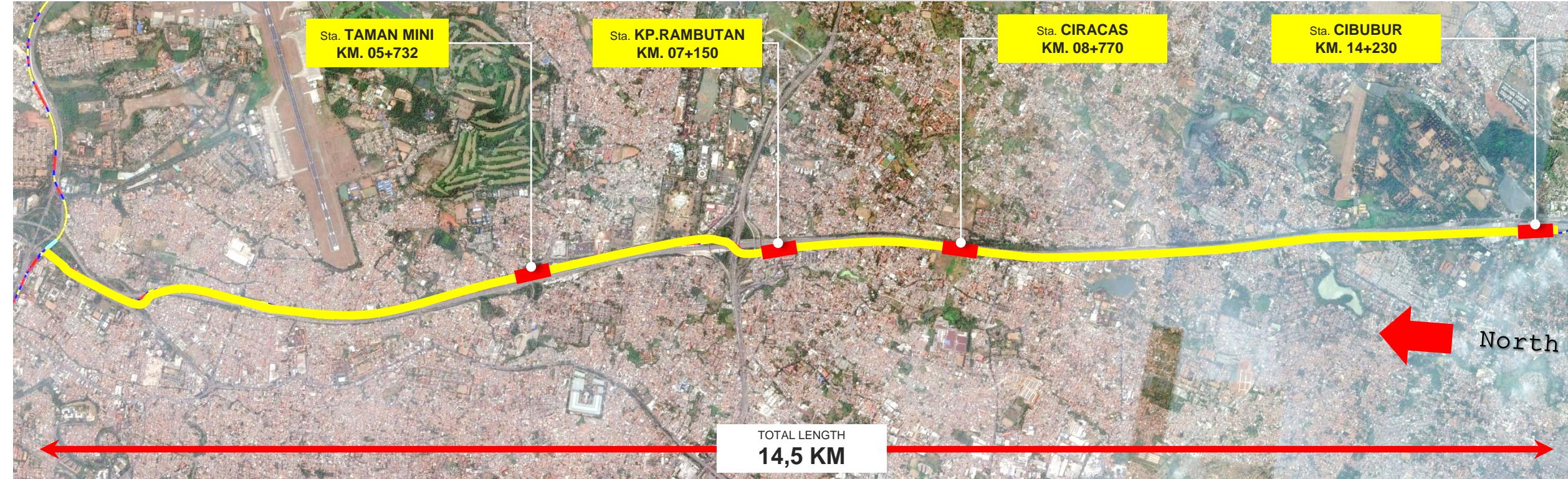
b. bahwa berdasarkan pertimbangan sebagaimana dimaksud dalam huruf a, perlu menetapkan Peraturan Presiden tentang Perubahan atas Peraturan Presiden Nomor 98 Tahun 2015 tentang Percepatan Penyelenggaraan Kereta Api Ringan/*Light Rail Transit* terintegrasi di wilayah Jakarta, Bogor, Depok, dan Bekasi;

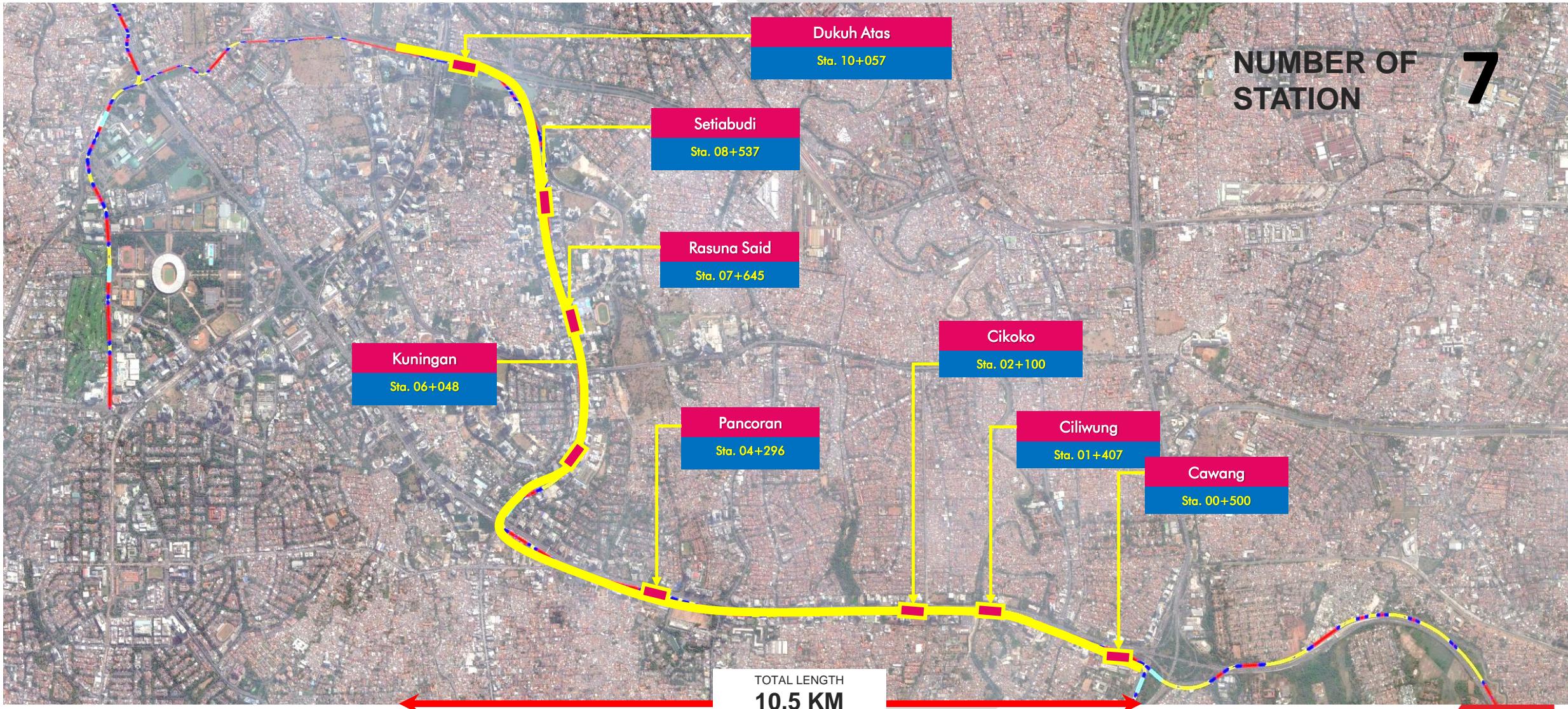




NUMBER OF  
STATION

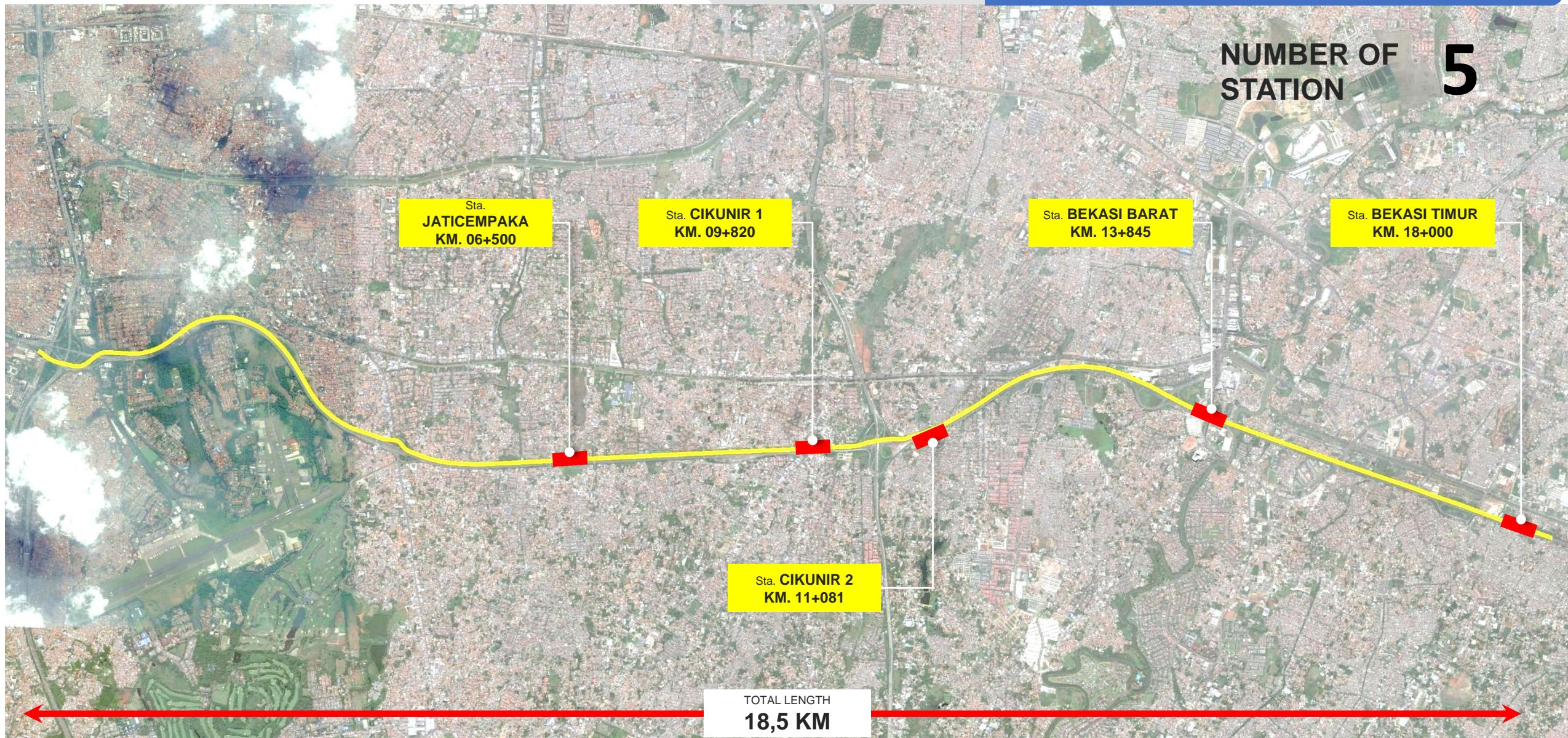
4





NUMBER OF  
STATION

5



## "ADHI" as a Design & Build Contractor

DESIGN

IMPLEMENTATION

TESTING

TRIAL RUNNING

- Study Demand
- Alignment
- Station Location
- System Operation
- Rolling Stock
- Infrastructure (Civil & Station)
- Operation Facility
- Depot

- Detail Design
- System Integration
- Civil Construction
- Railway System Manufacturing & Installation

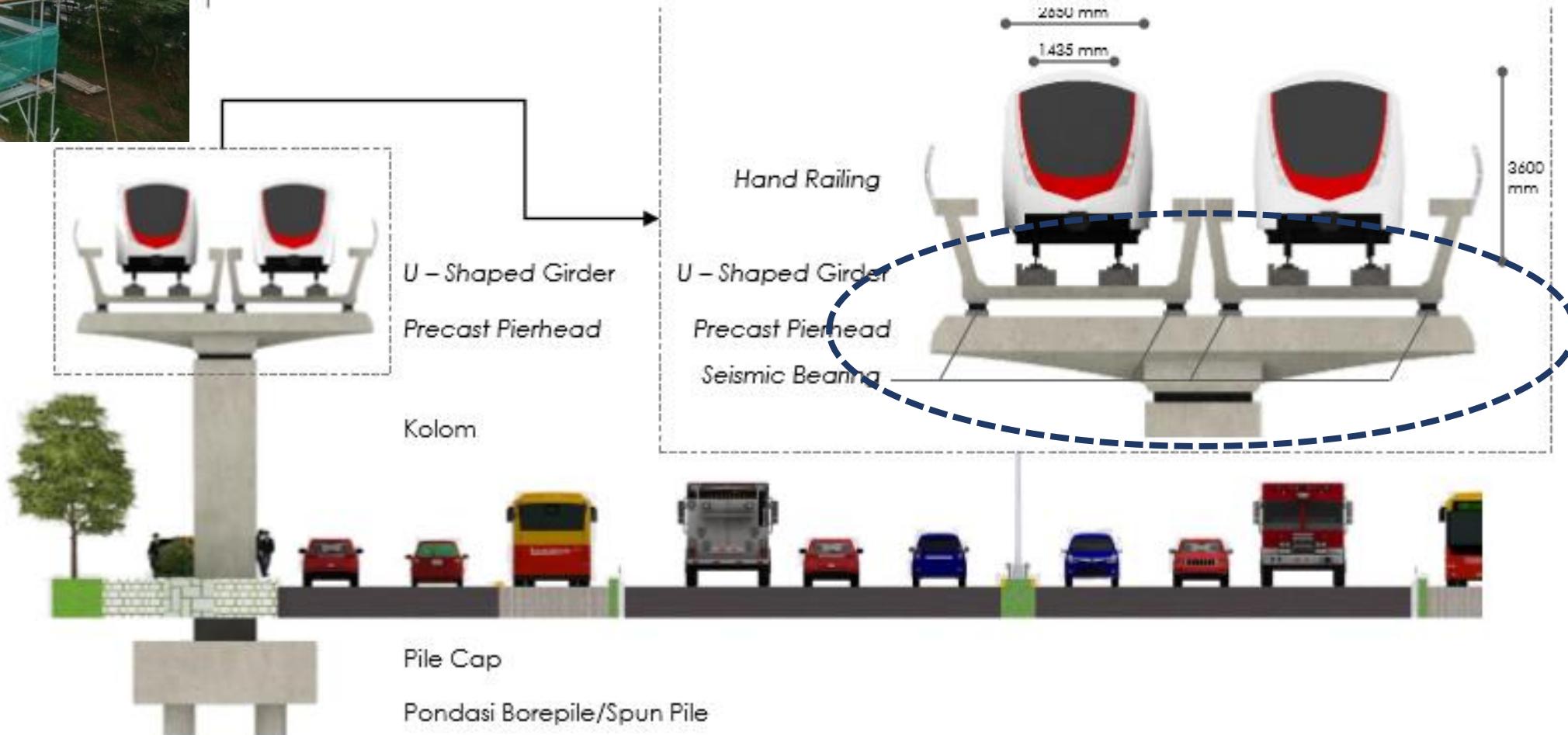
- Installation Test
- Partial Acceptance Test
- System Acceptance Test

- Technical Performance Test
- Functional Performance Test

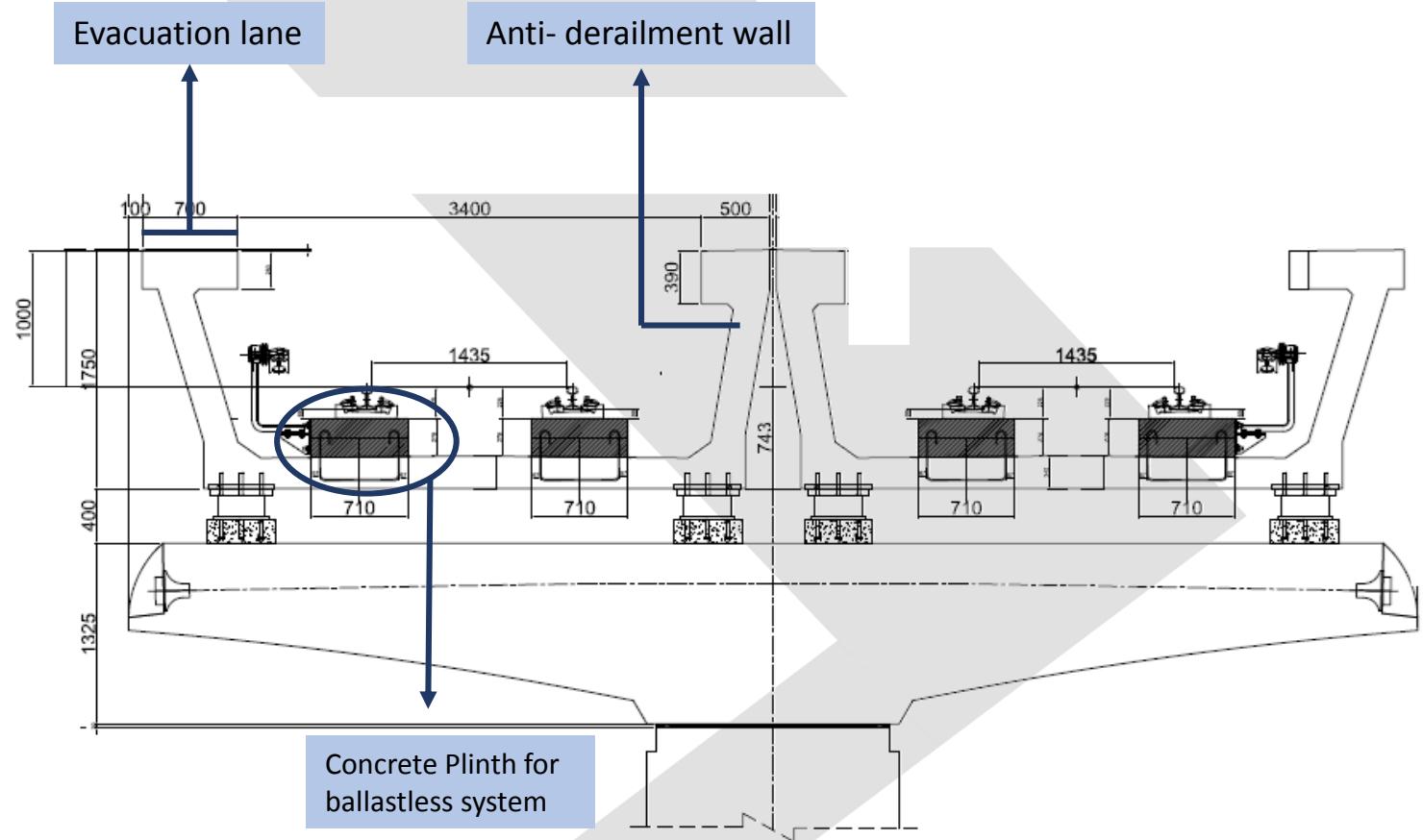


## 2. | TECHNOLOGY

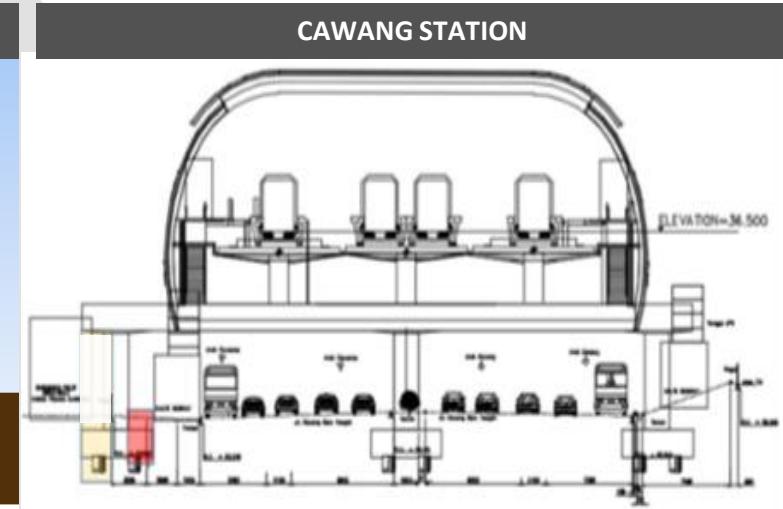
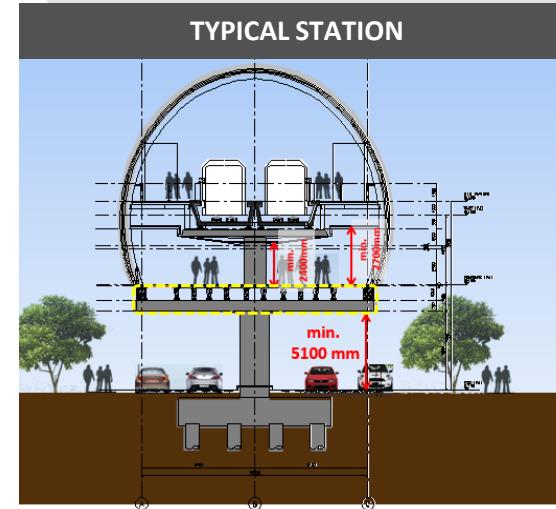




# LRT JABODEBEK | TECHNOLOGY | TRACKWORK

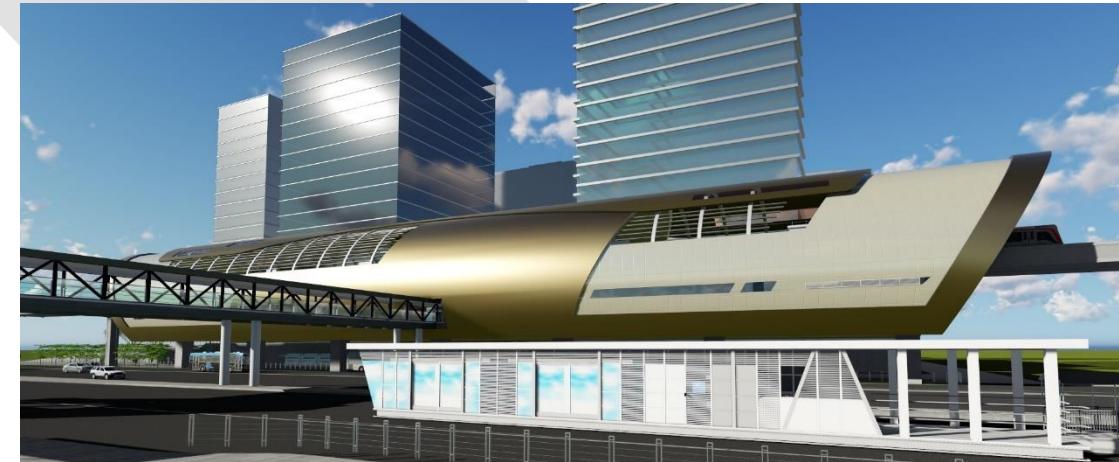
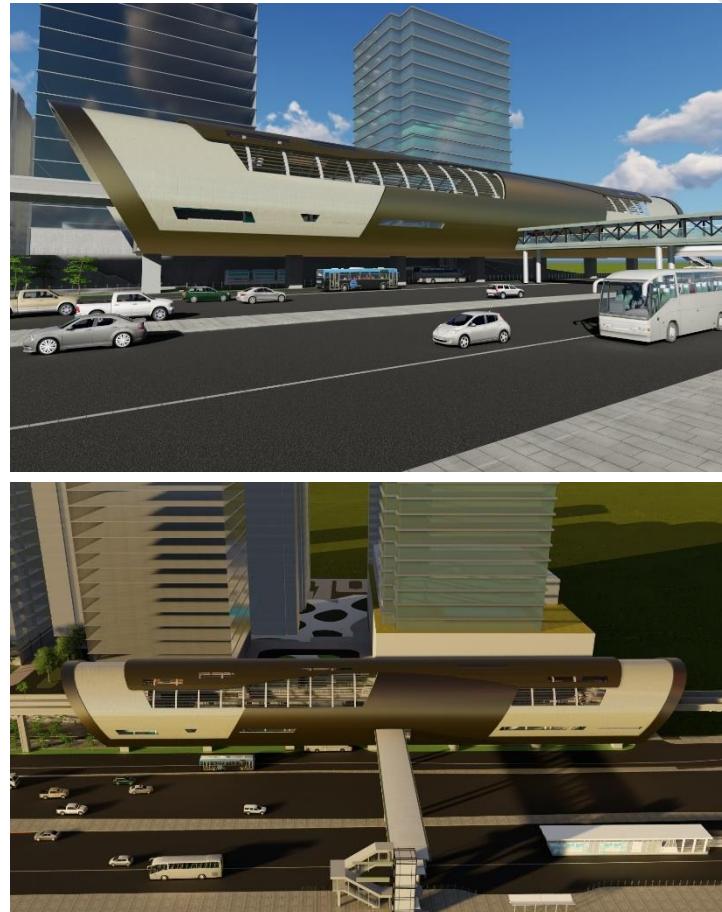


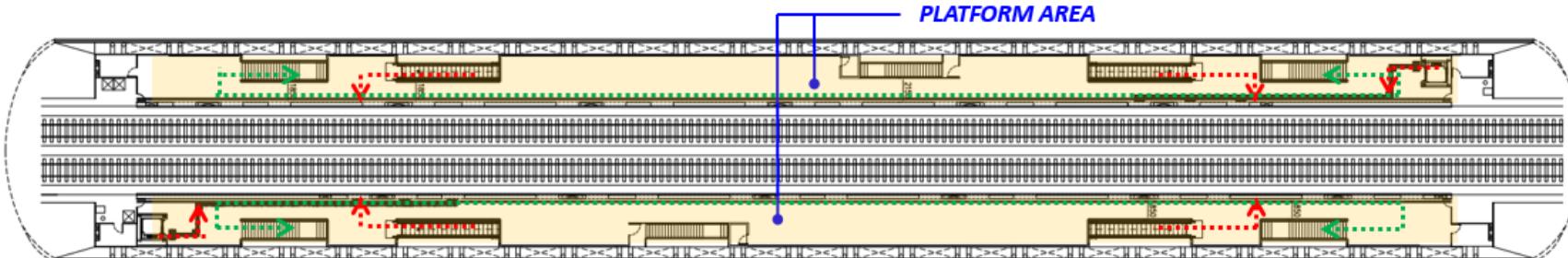


STATION VIEW

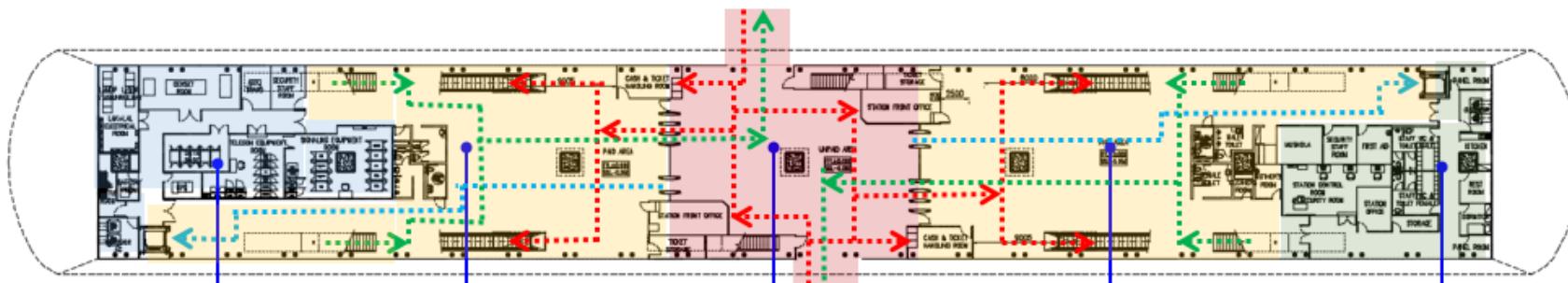
- The minimum height for the building is **2700mm**  
*(PERMEN PU No.19/PRT/M/2011 )*
- If there is an obstacle such as advertisement' pole, the minimum distance is **2400 mm**  
*(PERMEN PU No.19/PRT/M/2011 )*
- The distance to the main road is **5.1 m**  
*(PERMEN PU No.19/PRT/M/2011 )*

The shape of building is curve and futuristic to give a modern look but it is going to be simple and light as well. The surface of the building will be using a sandwich panel sticking to the building frame. It will make an efficiency in function and the use of material.





LANTAI PLATFORM



LANTAI CONCOURSE

**RUANG ME**

- SIGNALING & TELECOMMUNICATION ROOM
- DATA BASE
- ELECTRICAL ROOM
- UPS
- BATTERY
- GENSET
- WATER TANK & PUMP ROOM
- TRAVO & LVMDP
- GAS BOTTLE ROOM
- SECURITY STAFF ROOM

**AREA BERBAYAR 1**

- FIRST AID
- TOILET
- CLEANER'S ROOM

**AREA TAK BERBAYAR**

- STATION FRONT OFFICE
- TICKET SALES OFFICE
- AVM

**AREA BERBAYAR 2**

- MOTHER'S ROOM
- MUSHOLLA
- FIRST AID
- TOILET
- CLEANER'S ROOM

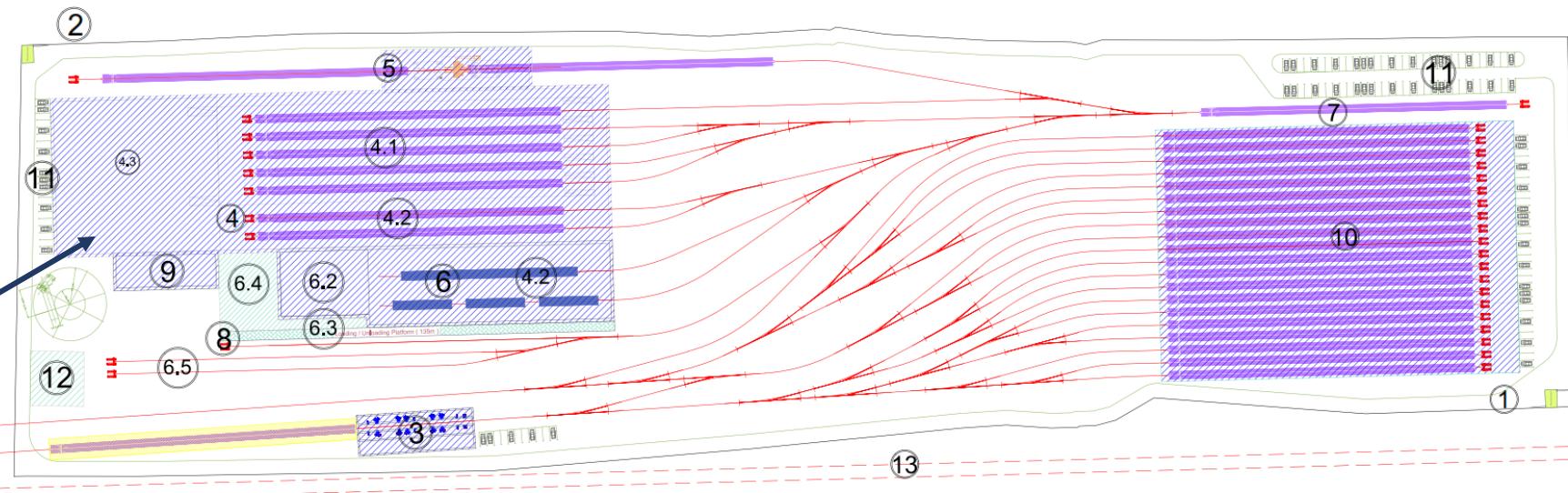
**B.O.H**

- SECURITY STAFF ROOM
- STATION CONTROL ROOM
- STATION OFFICE
- STAFF TOILET & LOCKER ROOM
- DORMITORY
- KITCHENETTE
- STORAGE

→ ALUR PENUMPANG NAIK

→ ALUR PENUMPANG TURUN

→ ALUR PENUMPANG DIFABLE



- ① MAIN ROAD ACCESS (WITH GUARDROOM)
- ② SECONDARY ROAD ACCESS
- ③ AUTOMATIC WASHING MACHINE (WITH TECHNICAL ROOM)
- ④ LIGHT MAINTENANCE BUILDING
  - ④.1 ELEVATED TRACKS WITH PITS
  - ④.2 FLAT TRACKS
  - ④.3 AT GRADE - WORKSHOP/STORAGE/OFFICES AREA  
UPSTAIRS - OCC, DCC & ADMINISTRATION AREA
- ⑤ UNDERFLOOR WHEEL LATHE BUILDING
- ⑥ FIXED INSTALLATION MAINTENANCE BUILDING
  - ⑥.1 FLAT TRACKS
  - ⑥.2 WORKSHOP/STORAGE/OFFICES AREA
  - ⑥.3 LOADING/UNLOADING PLATFORM
  - ⑥.4 OUTSIDE STORAGE AREA
  - ⑥.5 AUXILIARY VEHICLE STABLING
- ⑦ MANEUVERS TRACK
- ⑧ DELIVERY TRACK FOR ROLLING STOCK
- ⑨ TPS and LPS
- ⑩ STABLING BUILDING (20 positions of 105m)
  - ⑩.1 DRIVERS FACILITIES
  - ⑩.2 CLEANERS FACILITIES
- ⑪ CAR PARK
- ⑫ WASTE STORAGE AREA
- ⑬ TEST TRACK OF 900m (VIADUCT EXTENSION)

— Switch : TG 0,2  
Radius inside : 60m

- - - VIADUCT EXTENSION

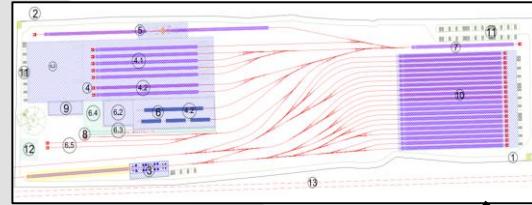
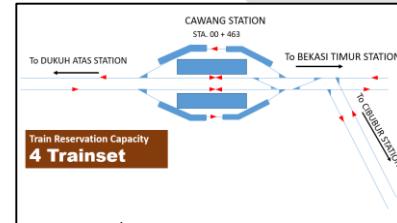
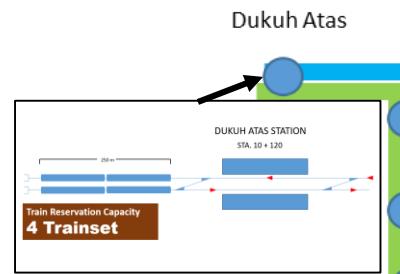
■ COVERED BUILDINGS

■ OUTSIDE STORAGE ZONE

■ TRANSFER ZONE

● TRUCK UNLOADING AND  
MANEUVERS AREA

DEPOT AREA: 73 414 m<sup>2</sup>



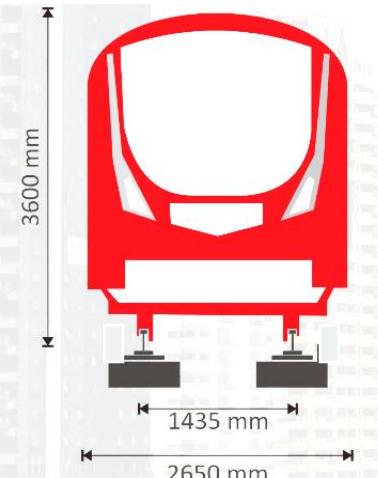
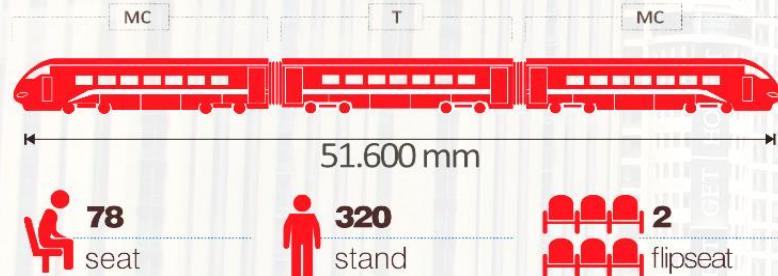
**RUTE 1: CIBUBUR – DUKUH ATAS**

**RUTE 2: BEKASI TIMUR – DUKUH ATAS**

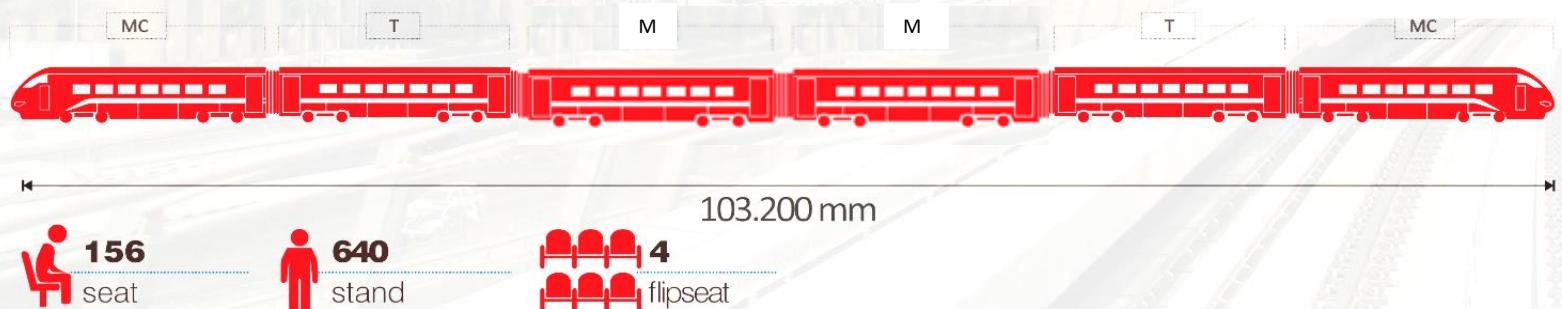


## TRAIN CAPACITY

**400** INITIAL  
PASSENGER CAPACITY



**800** ULTIMATE  
PASSENGER CAPACITY





SIGNALLING  
FIXED BLOCK with  
CAB SIGNAL



HEADWAY  
3 - 6 MINUTE



SAFETY TECHNOLOGY  
AUTOMATIC TRAIN PROTECTION (ATP)



MAIN CONTROL  
OCC BEKASI TIMUR



COMMUNICATION  
FIBER OPTIC



PENJUALAN TIKET  
TICKET VENDING MACHINE



SISTEM TIKET  
E-MONEY / SMARTCARD



COMMUNICATION DEVICES

Telephone      Public Address System

Radio            Passenger Information Display System

Clock            CCTV

LRT JABODEBEK | TECHNOLOGY  
RAILWAY SYSTEM

DISTRIBUTION VOLTAGE  
20 kV



TEGANAN PENYULANG  
3 MW



TEGANAN TRAKSI  
750 VDC



DISTRIBUSI DAYA  
3rd RAIL



KONTROL & SUPERVISI  
SCADA



**EXAMPLE****1. DUKUH ATAS STATION**

Note:

ST. Dukuh Atas is integrated with other mode of transportation such as busway, krl, mrt, and so on.

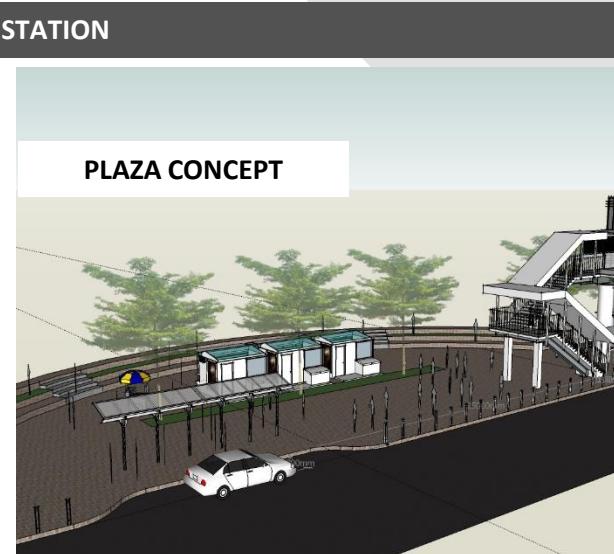
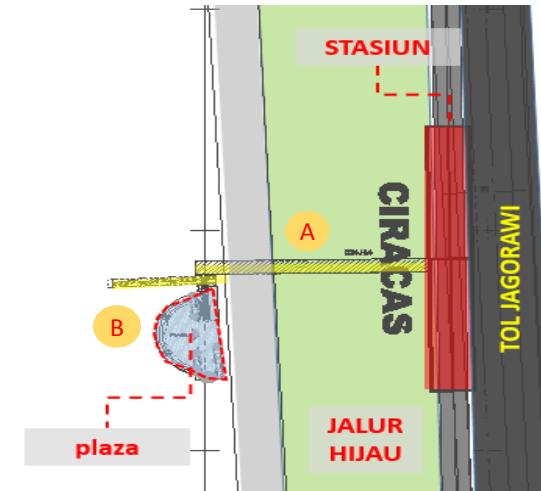
**2. KAMPUNG RAMBUTAN STATION**

Keterangan:

Sky Bridge connects ST. Kampung Rambutan to KP. Rambutan terminal.

THE PLAZA CONCEPT FOR MANAGING PASSENGERS

CIRACAS STATION

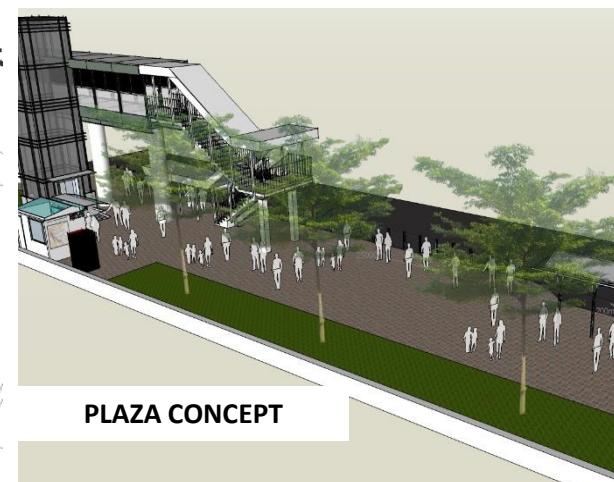
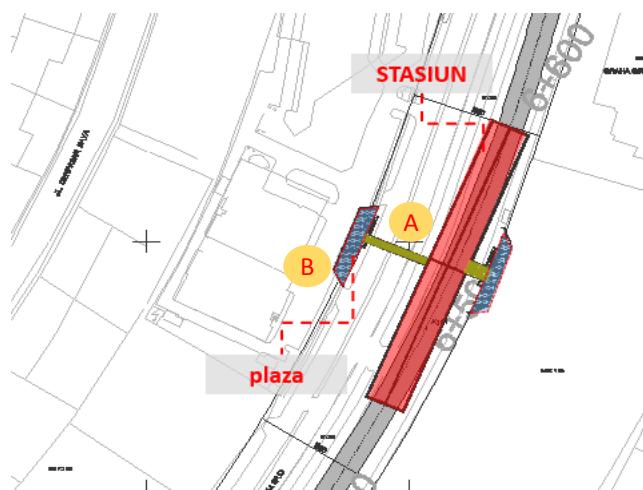
**A. A Connected Bridge by LRT**

An access from the station to the plaza

**B. Plaza As A Managing Area for Passengers**

Plaza is used for a passenger transition area before or after going to the station building

KUNINGAN STATION

**A. A Connected Bridge by LRT**

An access from the station to the plaza

**B. Plaza As A Managing Area for Passengers**

Plaza is used for a passenger transition area before or after going to the station building



### 3. | THE SCHEDULE OF CONSTRUCTION AND PROGRESS





## 4. DOCUMENTATION









# PT Adhi Karya (Persero) Tbk.

# THANK YOU

Visit us at [www.adhi.co.id](http://www.adhi.co.id)

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