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Peta Deagregasi Bahaya Gempa Indonesia untuk Perencanaan dan Evaluasi Infrastruktur Tahan Gempa (Bidang CiptaKementrian PUPR, 2021)



LAMPIRAN





E Material Property Data [X]

General Data

Material Name:

Material Type:

Directional Symmetry Type:

Material Display Color:

Material Notes:

Material Weight and Mass

☒ Specify Weight Density ☐ Specify Mass Density

Weight per Unit Volume: kN/m³

Mass per Unit Volume: kg/m³

Mechanical Property Data

Modulus of Elasticity, E: MPa

Poisson's Ratio, U:

Coefficient of Thermal Expansion, A: 1/C

Shear Modulus, G: MPa

Design Property Data

Advanced Material Property Data

Modulus of Rupture for Cracked Deflections

☒ Program Default (Based on Concrete Slab Design Code)

☐ User Specified



Material Properties Beton K300



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(0411) 586015, <http://eng.unhas.ac.id> e-mail:arch_unhas@yahoo.com

E Material Property Data

General Data

Material Name: SS40

Material Type: Steel

Directional Symmetry Type: Isotropic

Material Display Color:  Change...

Material Notes: Modify/Show Notes...

Material Weight and Mass

☒ Specify Weight Density ☐ Specify Mass Density

Weight per Unit Volume: 76,9729 kN/m³

Mass per Unit Volume: 7849,047 kg/m³

Mechanical Property Data

Modulus of Elasticity, E: 200000 MPa

Poisson's Ratio, U: 0.3

Coefficient of Thermal Expansion, A: 0,0000117 1/C

Shear Modulus, G: 76923,08 MPa

Design Property Data

Modify/Show Material Property Design Data...

Advanced Material Property Data

Nonlinear Material Data... Material Damping Properties... Time Dependent Properties...

OK Cancel

E Material Property Design Data

Material Name and Type

Material Name: SS40

Material Type: Steel, Isotropic

Grade: Grade 50

Design Properties for Steel Materials

Minimum Yield Stress, Fy: 260 MPa

Minimum Tensile Strength, Fu: 415 MPa

Expected Yield Stress, Fye: 260 MPa

Effective Tensile Strength, Fue: 415 MPa

OK Cancel



an 2. Material Properties Baja SS40



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E Frame Section Property Data

General Data

Property Name: Balok 30x60

Material: Beton K500

Notional Size Data: Modify/Show Notional Size...

Display Color: Change...

Notes: Modify/Show Notes...

Shape

Section Shape: Concrete Rectangular

Section Property Source

Source: User Defined

Section Dimensions

Depth: 600 mm

Width: 300 mm

Show Section Properties...

☐ Include Automatic Rigid Zone Area Over Column

Property Modifiers

Modify/Show Modifiers...
Currently Default

Reinforcement

Modify/Show Rebar...

OK
Cancel

E Frame Section Property Reinforcement Data

Design Type

☐ P-M2-M3 Design (Column)

☒ M3 Design Only (Beam)

Rebar Material

Longitudinal Bars: A615Gr60

Confinement Bars (Ties): A615Gr60

Cover to Longitudinal Rebar Group Centroid

Top Bars: 60 mm

Bottom Bars: 60 mm

Reinforcement Area Overwrites for Ductile Beams

Top Bars at I-End: 0 mm²

Top Bars at J-End: 0 mm²

Bottom Bars at I-End: 0 mm²

Bottom Bars at J-End: 0 mm²

OK
Cancel



n 3. *Frame Section Properties* Balok 30x60



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The image shows two overlapping software dialog boxes from a structural design program.

Top Dialog: Frame Section Property Data

- General Data:**
 - Property Name: Balok 30x105
 - Material: Beton K500
 - Notional Size Data: Modify/Show Notional Size...
 - Display Color: Red
 - Notes: Modify/Show Notes...
- Shape:**
 - Section Shape: Concrete Rectangular
- Section Property Source:**
 - Source: User Defined
- Section Dimensions:**
 - Depth: 1050 mm
 - Width: 300 mm
- Property Modifiers:**
 - Modify/Show Modifiers... (Currently Default)
- Reinforcement:**
 - Modify/Show Rebar...
- Buttons:** OK, Cancel
- Footer:** Show Section Properties..., ☐ Include Automatic Rigid Zone Area Over Column

Bottom Dialog: Frame Section Property Reinforcement Data

- Design Type:**
 - ☐ P-M2-M3 Design (Column)
 - ☒ M3 Design Only (Beam)
- Rebar Material:**
 - Longitudinal Bars: A615Gr60
 - Confinement Bars (Ties): A615Gr60
- Cover to Longitudinal Rebar Group Centroid:**
 - Top Bars: 60 mm
 - Bottom Bars: 60 mm
- Reinforcement Area Overwrites for Ductile Beams:**
 - Top Bars at I-End: 0 mm²
 - Top Bars at J-End: 0 mm²
 - Bottom Bars at I-End: 0 mm²
 - Bottom Bars at J-End: 0 mm²
- Buttons:** OK, Cancel



an 4. *Frame Section Properties* Balok 30x105



E Frame Section Property Data

General Data

Property Name: IWF 800

Material: SS40

Display Color: Change...

Notes: Modify/Show Notes...

Shape

Section Shape: Steel I/Wide Flange

Section Property Source

Source: User Defined

Section Dimensions

Total Depth	800	mm
Top Flange Width	300	mm
Top Flange Thickness	26	mm
Web Thickness	14	mm
Bottom Flange Width	300	mm
Bottom Flange Thickness	26	mm
Fillet Radius	14	mm

Show Section Properties...

Property Modifiers

Modify/Show Modifiers...
Currently Default

OK
Cancel

Lampiran 5. *Frame Section Properties* Baja IWF 800





E Slab Property Data

General Data

Property Name: PLAT LANTAI

Slab Material: Beton K500

Notional Size Data: Modify/Show Notional Size...

Modeling Type: Shell-Thin

Modifiers (Currently Default): Modify/Show...

Display Color: [Yellow] Change...

Property Notes: Modify/Show...

Property Data

Type: Slab

Thickness: 120 mm

OK Cancel

Lampiran 6. *Slab Properties* Plat Lantai

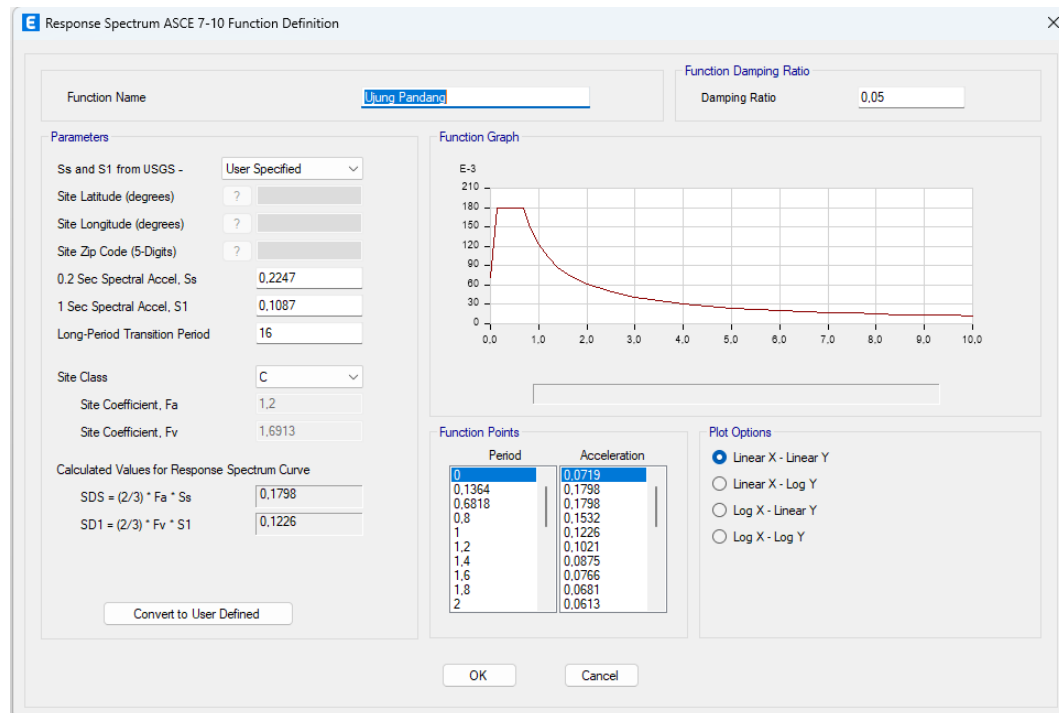




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Lampiran 7. Input Respon Spektrum Kota UjungPandang



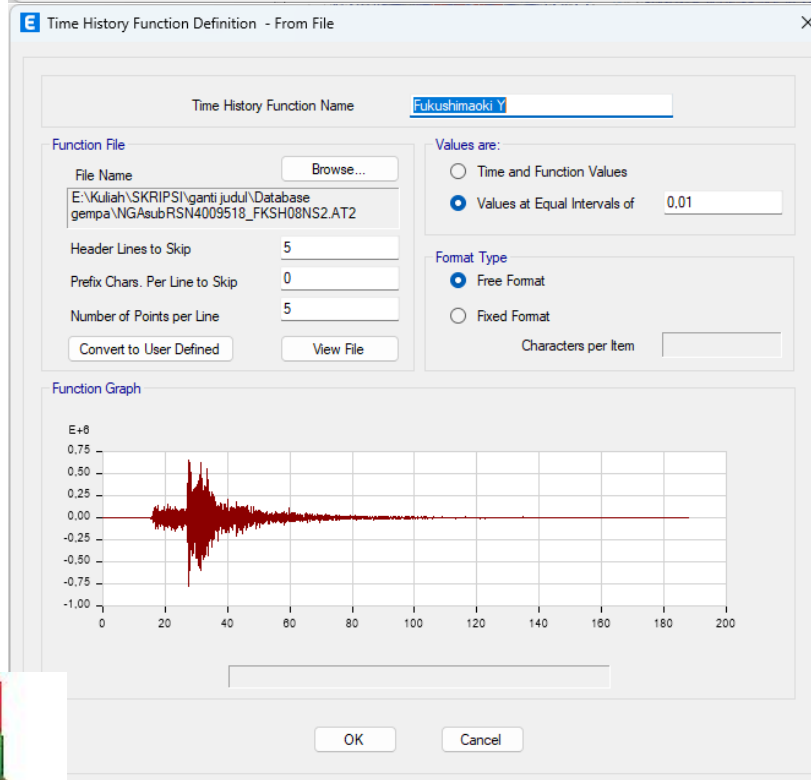
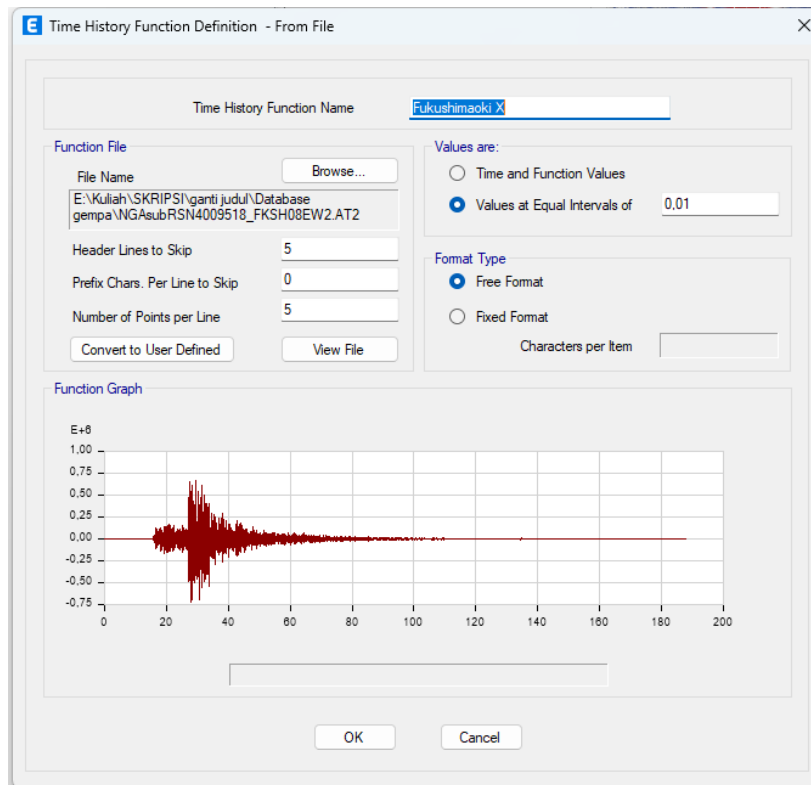
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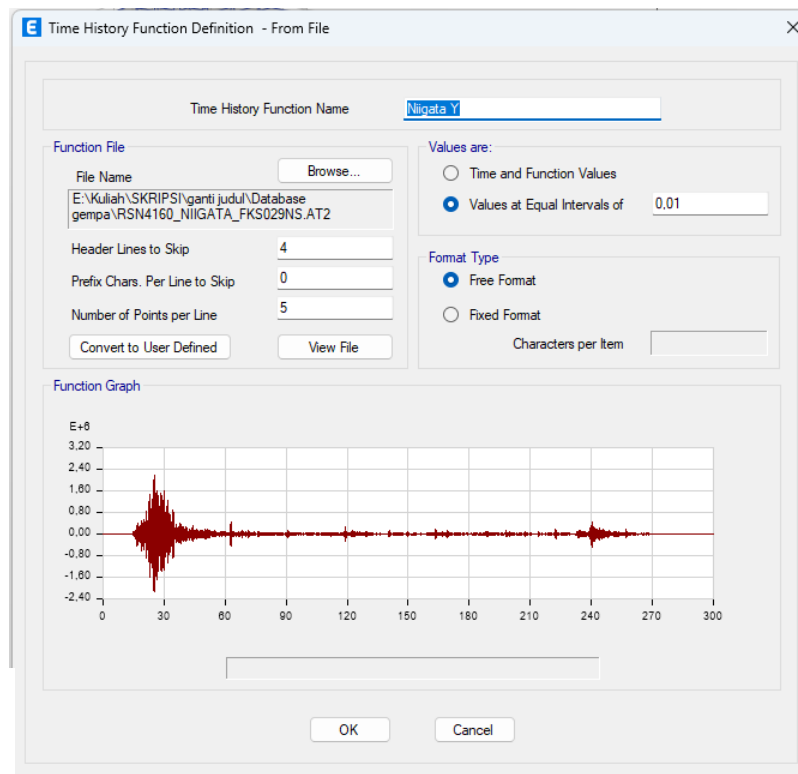
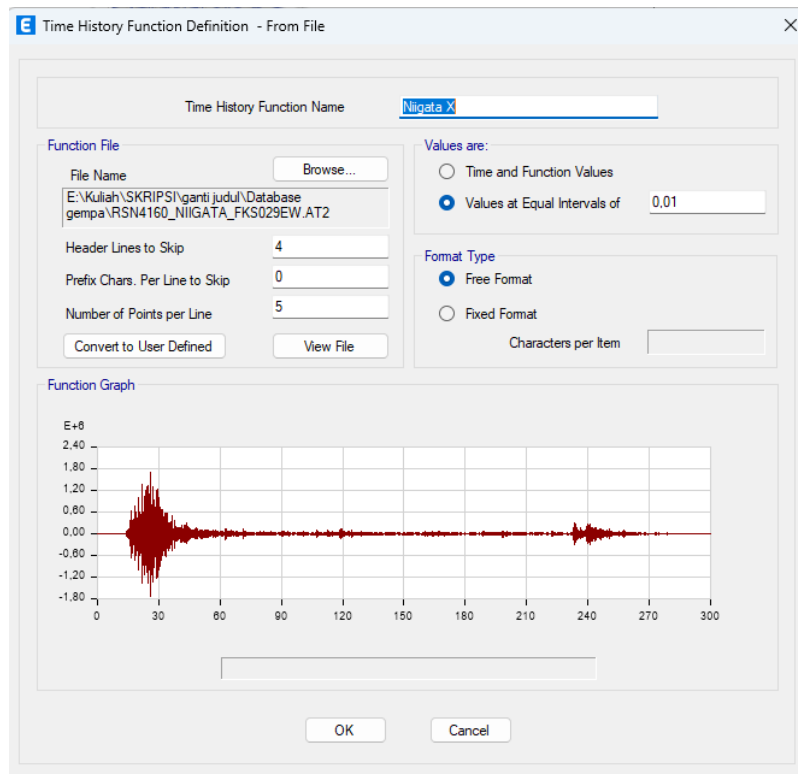
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8. Time Historic Function gempa Fukushima arah X dan Y



an 9. *Time Historic Function* gempa Niigata arah X dan Y

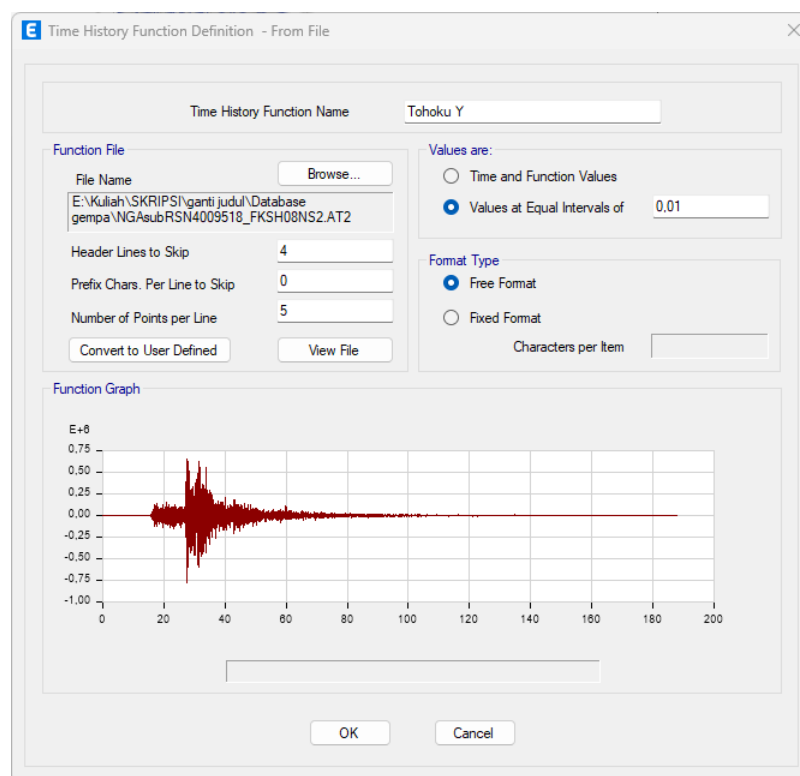
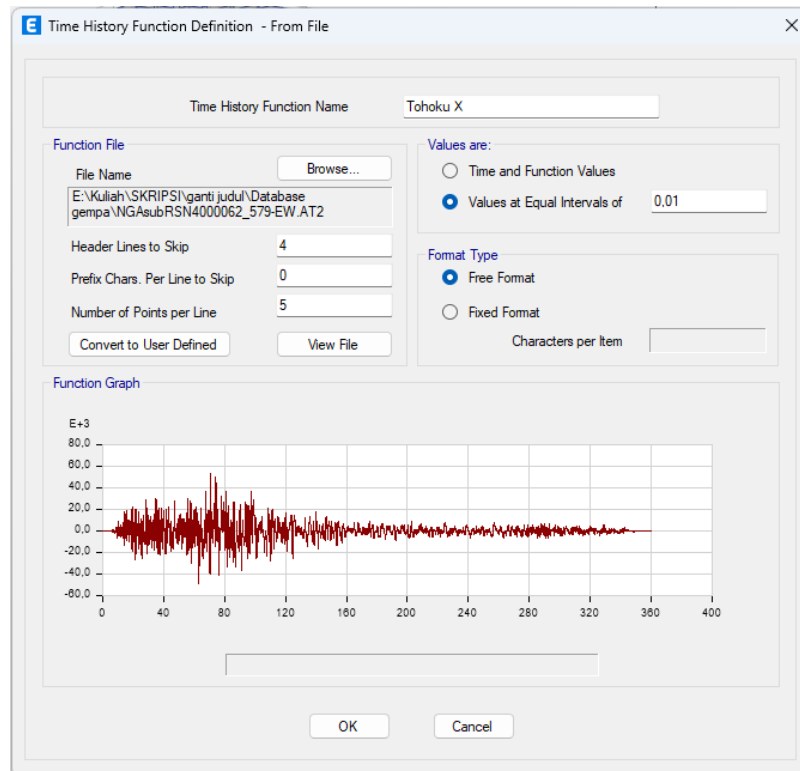


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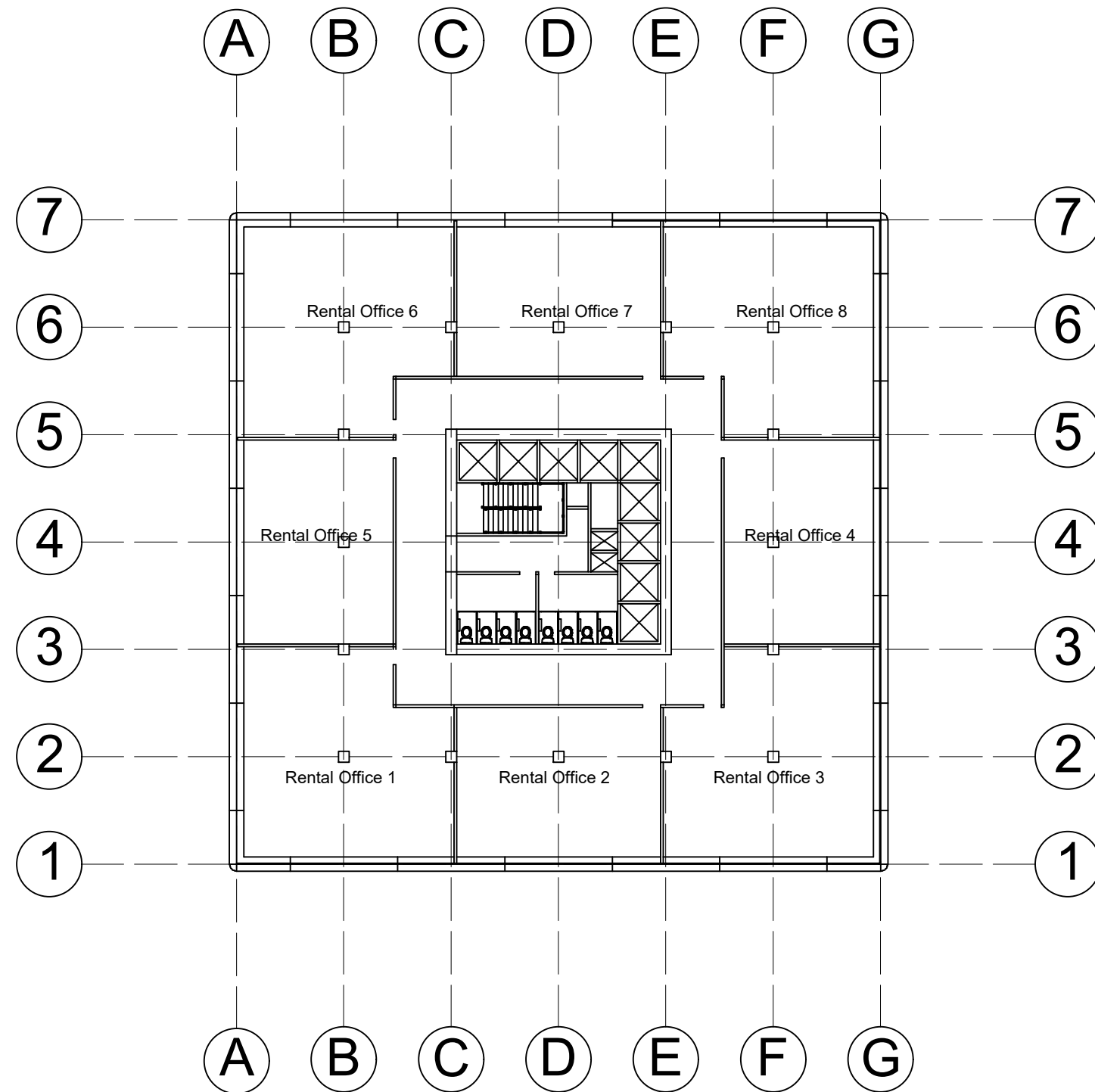
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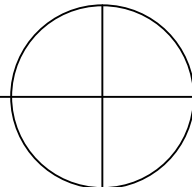
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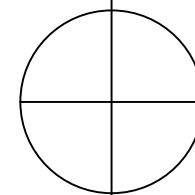
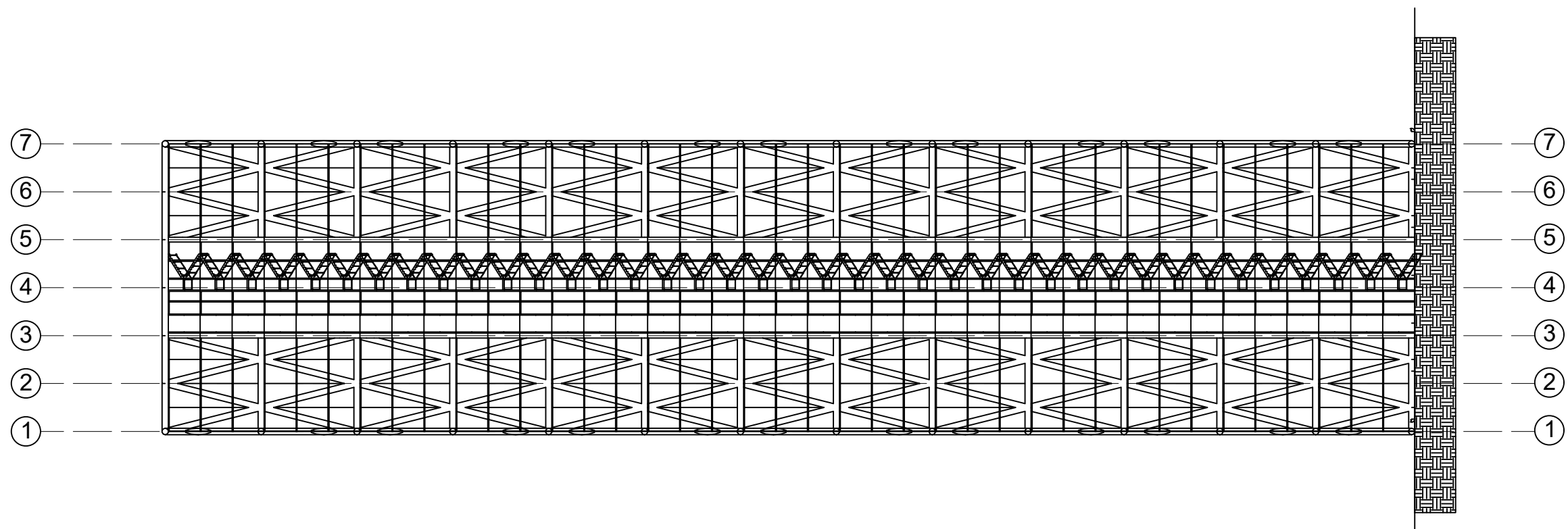
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10. *Time Historic Function* gempa Tohoku arah X dan Y




DENAH TIPIKAL BANGUNAN
 SKALA 1:200

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POTONGAN A-A

SKALA 1:400

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Dr. Ir. Imriyanti, ST., MT.

MAHASISWA :

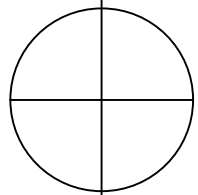
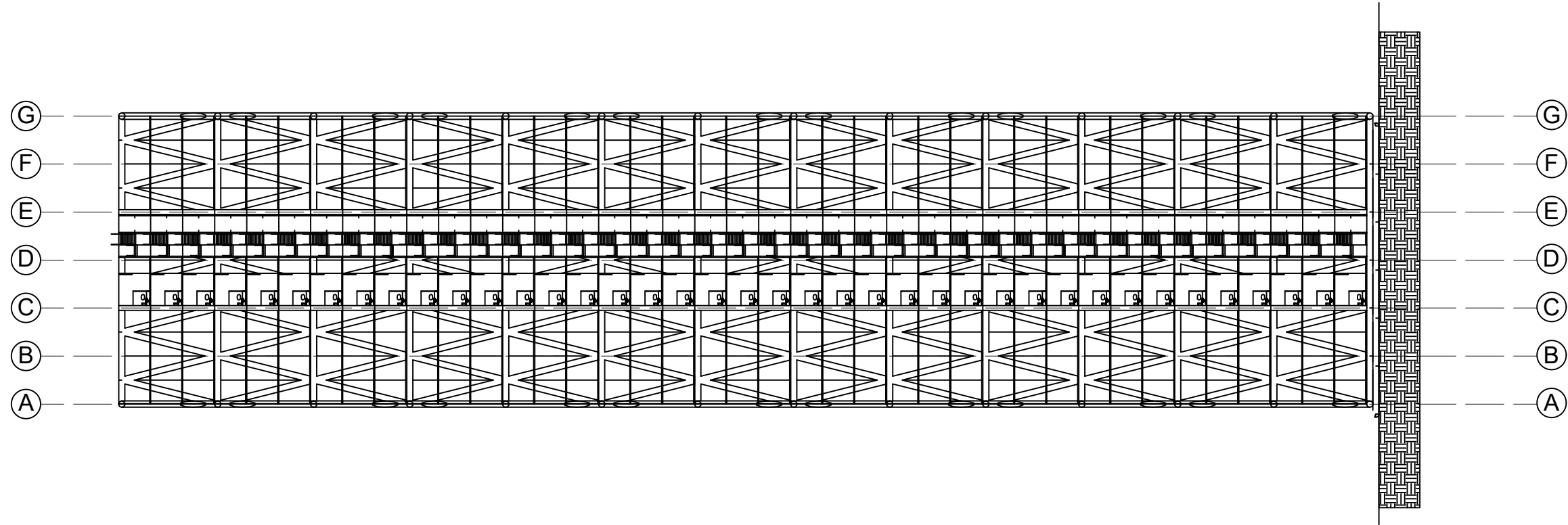
AHMAD ROSYIDIN. A

NIM :

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NO LEMBAR :

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SKALA 1:400

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DOSEN PEMBIMBING :

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MAHASISWA :

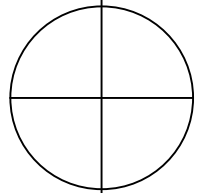
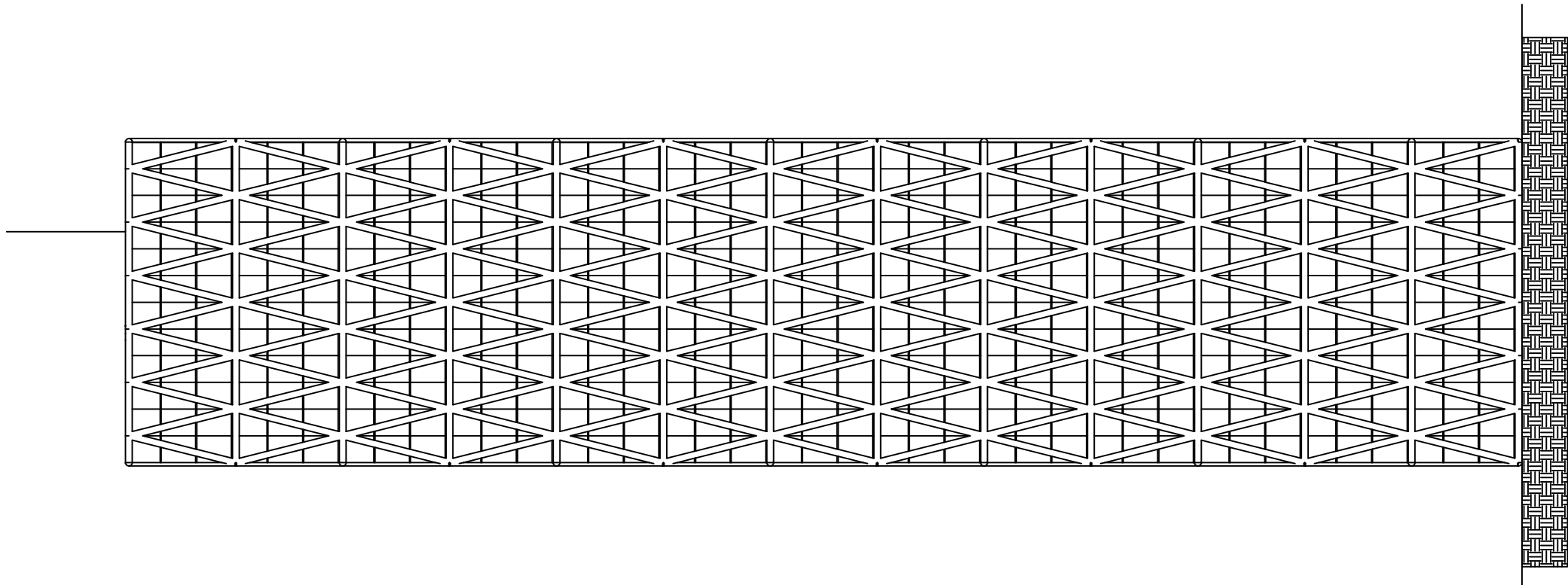
AHMAD ROSYIDIN. A

NIM :

D051191014

NO LEMBAR :

KETERANGAN :



TAMPAK DEPAN

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				NIM : D051191014		