

**FINAL ASSIGNMENT**

**DESIGN OF PRESTRESS CONCRETE BOX GIRDER BRIDGE  
MULTI-CELL TYPE**

**Proposed to Fulfill Academic Requirement for  
Civil Engineering Degree in Engineering Faculty  
of Universitas Islam Sultan Agung**



**By:**

**ENNO APRILOI**

**NIM : 30201504109**

**HARIYANI ESSY OKTAVIANI**

**NIM : 30201504134**

**CIVIL ENGINEERING DEPARTEMENT  
ENGINEERING FACULTY  
UNIVERSITY ISLAM SULTAN AGUNG SEMARANG  
February 2019**

**DESIGN OF PRESTRESS CONCRETE BOX GIRDER BRIDGE  
MULTI-CELL TYPE**

## AUTHENTICITY STATEMENT

The undersigned below:

NAME : 1. Enno Apriloi (30201504109)  
2. Hariyani Essy Oktaviani (30201504134)  
TITLE : Design of Bridge Using Prestress Concrete Box Girder Type  
Multi-Cell

This Final Assignment is the result of my own original research, thought and presentation. We do not include without recognition material – material that has been previously published or written by someone else, or an ingredient that has been submitted for a degree or diploma at the Sultan Agung Islamic University of Semarang or other universities.

In the future there are deviations and untruths in this statement, then I am willing to accept academic sanctions in accordance with the regulations that apply at Sultan Agung Islamic University of Semarang.

Semarang, March 5<sup>th</sup> 2019

By:

Editor 1  
  
Enno Apriloi

Editor 2  
  
Hariyani Essy Oktaviani

**Proposed Final Assignment Research**

DESIGN of BRIDGE USING PRESTRESS CONCRETE  
BOX GIRDER TYPE MULTI – CELL

Submitted by :

ENNO APRILOI

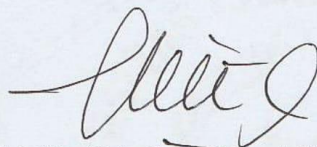
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HARIYANI ESSY OKTAVIANI

30.2015.04.109

Approved by :

Supervisor



Ir. Gatot Rusbintardjo, M.R.Eng. M.Sc., Ph.D

Date :

Co-Supervisor



Ir. H. Rachmat Mudiyono, MT., Ph.D

Date :

Knowing

Chairman of The Civil Engineering Study Program



Art Sentani, ST., M.Sc



**YAYASAN BADAN WAKAF SULTAN AGUNG  
UNIVERSITAS ISLAM SULTAN AGUNG SEMARANG  
FAKULTAS TEKNIK**

Jl. Raya kaligawe KM. 4 PO.BOX. 1054 Telp. (024) 6583584 Ext. 507 Semarang 50122

**APPROVAL PAGE OF FINAL ASSIGNMENT**

**DESIGN of BRIDGE USING PRESTRESS CONCRETE BOX GIRDER  
TYPE MULTI – CELL**

**By :**



**ENNO APRILOI**

**30.2015.04.109**



**HARIYANI ESSY OKTAVIANI**

**30.2015.04.134**

Have been approved in Semarang on February 1<sup>st</sup> 2019

Examiners Team

1. Ir. Gatot Rusbintardjo, M.R.Eng.Sc., Ph.D.
2. Ir. H. Rachmat Mudiyo, MT. Ph. D.
3. Mohamad Rusli Ahyar, ST., M.Eng.

Signature

Head of The Department of Civil Engineering, Faculty of Engineering  
Sultan Agung Islamic University



**Ari Sentani, ST., MSc.**

## MOTTO

“Because in fact after the difficulty there is convenience (5) in fact after the difficulty there is convenience (6) then when you have finished something of an affair, work hard on other matters (7) and only to your god should you hope (8)”.

(QS. Al Insyirah: 5-8)

“Yes my rabb, lay it for me on my chest and make it easy for me my affairs and release the rigidity from my tongue so they understand my words”.

(QS. Thoha: 25-28)

“On this day every soul be rewarded with what it earned, no one harmed today. Allah is swift at reckoning”.

(QS. Al Ghafir: 17)

*"I dedicated this final assignment to the knowledge of civil engineering in general  
and bridge engineering in special as my worship to Allah Subhana Wa Ta'ala"*

## ACKNOWLEDGEMENT

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Furthermore, the author would like to convey infinite gratitude to all parties who helped smooth the writing this final assignment, both in the form of moral and material encouragement. Because the author believes without help and support, it was difficult for the writer to finish writing this description. In addition, allow the author to express his gratitude and appreciation to:

1. Dean of the Engineering Faculty of UNISSULA Mr. Ir. H. Rachmat Mudyono, MT., Ph.D.,
2. Head of Civil Engineering Department, Engineering Faculty of UNISSULA Mr. Ari Sentani, ST, MSc., for permission, to take final assignment as the requirement for reaching Bachelor Degree in Civil Engineering in Engineering Faculty of UNISSULA.
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5. Mr. and Mrs. Lecturer Faculty of engineering who have provided their knowledge to the author. Hopefully, the knowledge that the author has obtained can be useful in the future.



Finally, the author hopes that the good deeds of all parties that have helped the writer in completing this final assignment get reward from the mercy of Allah SWT. Hopefully what has been written in this final assignment can be beneficial for all parties. Amiin ya Robbal 'alamin.

Semarang, February 2019

Enno Apriloi