

## I. IDENTIFICATION DATA

<b>Thesis title:</b>	<b>La Aguacatala transport hub in Medellin</b>
<b>Author's name:</b>	<b>Pablo Pelaez Perez</b>
<b>Type of thesis :</b>	master
<b>Faculty/Institute:</b>	Faculty of Architecture (FA)
<b>Department:</b>	15116
<b>Thesis reviewer:</b>	Prof. dr. ir. Henri Achten
<b>Reviewer's department:</b>	15116

## II. EVALUATION OF INDIVIDUAL CRITERIA

<b>Assignment</b>	<b>challenging</b>
<i>How demanding was the assigned project?</i>	
<p>The diploma work concerns a new design for the existing Metro station Aguacatala of line Niquia-La Estrella in Medellin, Colombia. The station is located at the Medellin river, directly to its west side, and the 6-lane Avenida Regional directly to its east side. Thus the site conditions are very limiting. Future developments in public transport require conceptual integration of bus line services, light rail, and river train project with the metro station. Furthermore, the station serves as a bridge over the Medellin river. It connects two districts that are socio-economical very different.</p>	

<b>Fulfilment of assignment</b>	<b>fulfilled</b>
<i>How well does the thesis fulfil the assigned task? Have the primary goals been achieved? Which assigned tasks have been incompletely covered, and which parts of the thesis are overextended? Justify your answer.</i>	
<p>The thesis solves the problematic and limited area of the existing metro by expanding to both sides of the Medellin river, and connecting to nearby public transport nodes (existing and new). The design of both legs of the metro station are a large improvement over the current metro building. By raising the body of the legs the project enables visual connection between the river banks. It allows the creation of commercial floor area above the platforms, and it establishes a connection between the two districts alongside the river. The design reacts to the climatic conditions of Medellin, through the use of movable façade panels and the application of photo-voltaic panels on the roof.</p>	

<b>Activity and independence when creating final thesis</b>	<b>C - good.</b>
<i>Assess whether the student had a positive approach, whether the time limits were met, whether the conception was regularly consulted and whether the student was well prepared for the consultations. Assess the student's ability to work independently.</i>	
<p>Consultations were done mostly at the start of the diploma project, to ensure proper direction and concept of the work. After that, Pablo Pelaez Perez worked independently on the diploma project.</p>	

<b>Technical level</b>	<b>C - good.</b>
<i>Is the thesis technically sound? How well did the student employ expertise in his/her field of study? Does the student explain clearly what he/she has done?</i>	
<p>The design is technically feasible. Pablo Pelaez Perez took advantage of information provided by the authority of Metro of Medellin.</p>	

<b>Formal level and language level, scope of thesis</b>	<b>D - satisfactory.</b>
<i>Are formalisms and notations used properly? Is the thesis organized in a logical way? Is the thesis sufficiently extensive? Is the thesis well-presented? Is the language clear and understandable? Is the English satisfactory?</i>	
<p>The thesis is organized in a clear way. The material presented in the thesis text is relevant and to the point. In terms of scope, the text could have been comprehensive to include more detailed context information about climate, analysis of existing metro stations in Medellin, socio-economic characteristics of passengers travelling through and near Aguacatala station, and seismic activity related to counter-measures.</p>	

**Selection of sources, citation correctness****D - satisfactory.**

*Does the thesis make adequate reference to earlier work on the topic? Was the selection of sources adequate? Is the student's original work clearly distinguished from earlier work in the field? Do the bibliographic citations meet the standards?*

The thesis refers mainly to online resources; however, Pablo Pelaez Perez has also been in contact with the authority of Medellin Metro who provided relevant data for the thesis work.

**Additional commentary and evaluation (optional)**

*Comment on the overall quality of the thesis, its novelty and its impact on the field, its strengths and weaknesses, the utility of the solution that is presented, the theoretical/formal level, the student's skillfulness, etc.*

The diploma work by Pablo Pelaez Perez is a convincing and realistic answer to a complex location with many limitations. Key to his concept is the passenger flow analysis presented in the thesis on (unnumbered) pages 55 and 56, that show the wider connection of the project to its surroundings. The solution for the façade would have been more convincing if it had been systematically compared to more options.

**III. OVERALL EVALUATION, QUESTIONS FOR THE PRESENTATION AND DEFENSE OF THE THESIS, SUGGESTED GRADE**

*Summarize your opinion on the thesis and explain your final grading.*

The grade that I award for the thesis is **C - good**.

Date: **3.6.2024**

Signature:

