AYBU | DEPARTMENT OF ARCHITECTURE

2022-2023 SPRING Semester| Graduation Project | ARCH 402

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Knowledge Transfer/Storage Hub

Knowledge, its nature, how it is acquired, and the problems related to its transfer and dissemination have always been a topic of discussion for humankind. Naturally, the architectural spaces used for the transfer and storage of knowledge also has been a source of discussion. In this project, students will make their own contributions to the discussion of architectural spaces for the transfer and storage of knowledge.

This graduation project expects the students to not only design a space for knowledge transfer/storage but also have a basic understanding regarding the discussions around the notion of knowledge and have a stance towards them.

COURSE CONTENT

This architectural graduation project focuses on the design of a Knowledge Transfer/Storage Hub in the Ankara Sugar Factory District. The main objective of the course is to explore types of knowledge relevant to humankind in the 21st century and develop innovative and sustainable spatial design solutions that respond to the challenges of knowledge transfer and storage in the context of a rapidly changing urban environment.

The course will cover the following topics:

Contextual Analysis: Students are expected to conduct a thorough analysis of the Sugar Factory District, its history, current conditions, and potential for future development.

Requirements Analysis: Students are expected to explore the notion of "knowledge" and develop a basic philosophical background on epistemology (the theory of knowledge). Building upon this background, students are expected to suggest an architectural program that will correspond spatial and functional needs of a Knowledge Transfer/Storage Hub.

Concept Development: Students are expected to develop design concepts that address the requirements of a knowledge transfer and storage hub, including spaces for collaboration, research, innovation, and community engagement.

Design Process: Students are expected to approach the design process systematically, from schematic design to construction documents; taking into account sustainability, accessibility, cultural significance, spatial quality, and operational functionality

Technical Skills: Students are expected to develop technical skills in areas such as building systems, construction technology, and materials selection.

By the end of the course, students are expected to submit a comprehensive design proposal for a Knowledge Transfer/Storage Hub in the Ankara Sugar Factory District, showcasing their ability in the principles of architectural design and all relevant areas.

DESIGN BRIEF

Project Overview:

The knowledge transfer/storage hub will be located in the Ankara Sugar Factory District, and it is intended to serve as a central hub for knowledge transfer and storage. The hub will provide a range of facilities and services for any type of knowledge transfer/storage and any type of user.

Objectives:

To provide a wide array of spaces for a wide range of knowledge transfer opportunities.

To provide a contemporary and innovative space for knowledge transfer and storage.

To promote interdisciplinary collaboration and exchange of ideas among professionals, students, and researchers.

To offer a wide range of facilities and services that support research, development, and innovation.

Examples of Possible Facilities and Services:

A multi-functional conference hall that can be used for lectures, workshops, seminars, and other events.

A spacious library with a collection of books, journals, and other reference materials.

A cutting-edge research and development lab with advanced equipment and facilities for prototyping and testing.

An exhibition space for showcasing the latest advancements in various fields.

A café and lounge area for informal meetings, networking, and relaxation.

Private offices, meeting rooms, and workstations for professionals, students, and researchers.

A virtual reality center for immersive experiences and simulations in architecture, engineering, and technology.

An education workshop for traditional crafts

Various spaces for the transfer and storage of unconventional types of knowledge

A flexible space for

A highly facilitated space for knowledge-sharing camps.

Possible Design Considerations:

Sustainability and energy efficiency: The building should be designed to minimize its environmental impact, promote sustainable practices, and optimize energy usage.

Accessibility and inclusiveness: The design should take into account the needs of all users, including those with disabilities, and provide accessible facilities and services.

Historical context and cultural heritage: The design should reflect the rich history and cultural heritage of the Ankara Sugar Factory District, while also incorporating modern elements that reflect the hub's purpose and function.

Flexibility and adaptability: The building should be designed to accommodate changing needs and uses over time, and allow for the addition of new facilities and services as needed.

SITE

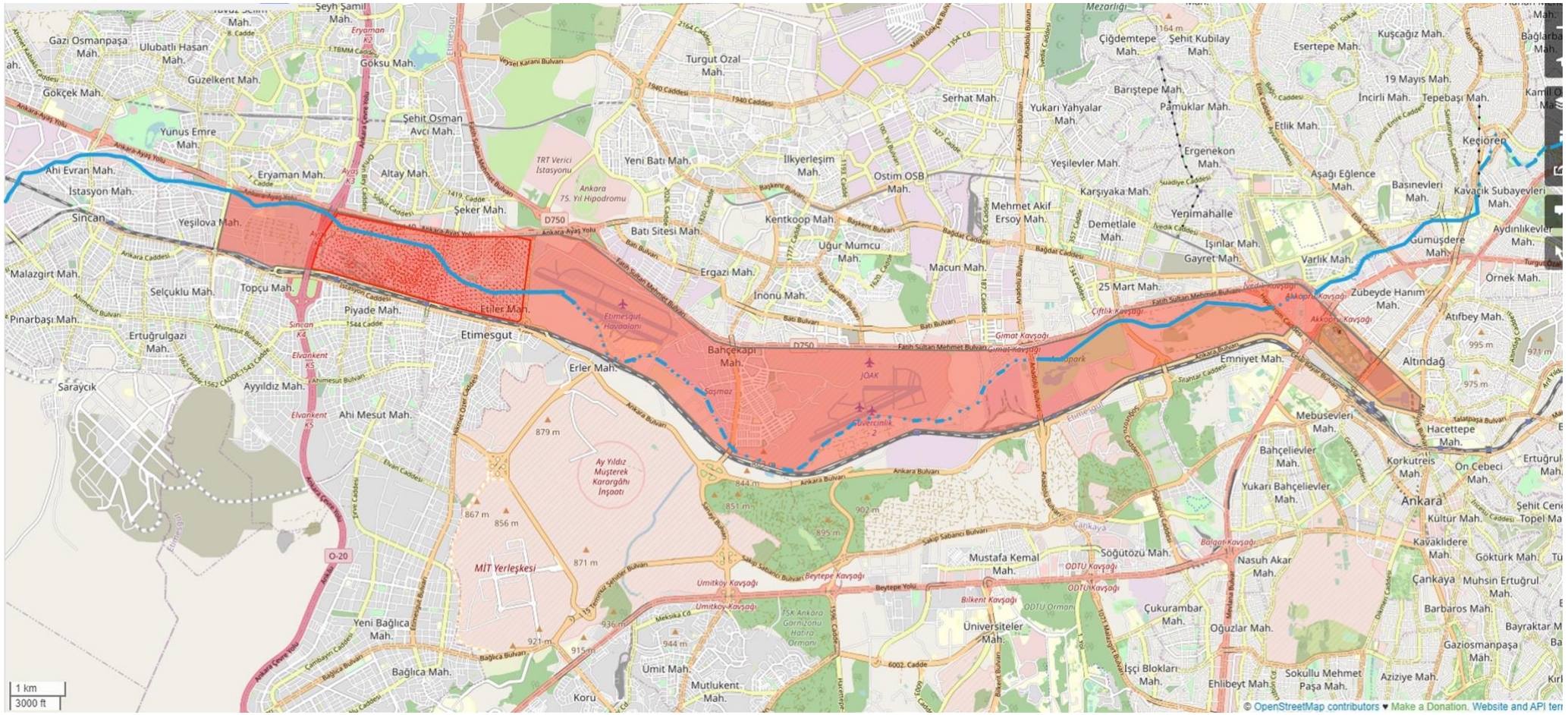

Figure 1 Current Cultural Axis of Ankara

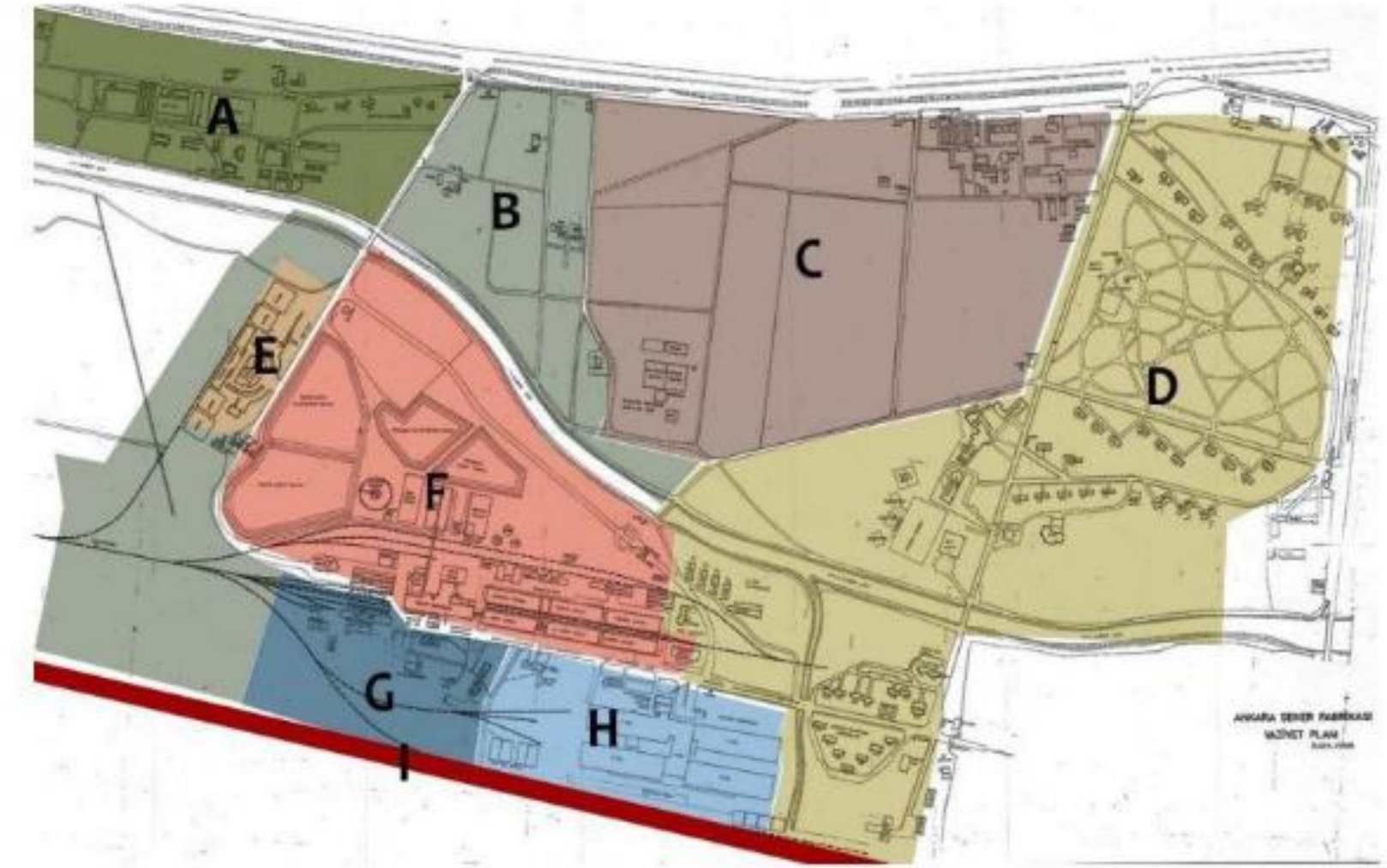

Figure 2 Ankara Sugar Factory Campus Plan 1962 (Özkul, n.d.)

A-Farm Areas, B- Recreation Areas, C- Education Part, D- Housing, E- Seed Factory, F- Sugar Factory,
G- Storage, H- Machine Factory, I- Train line

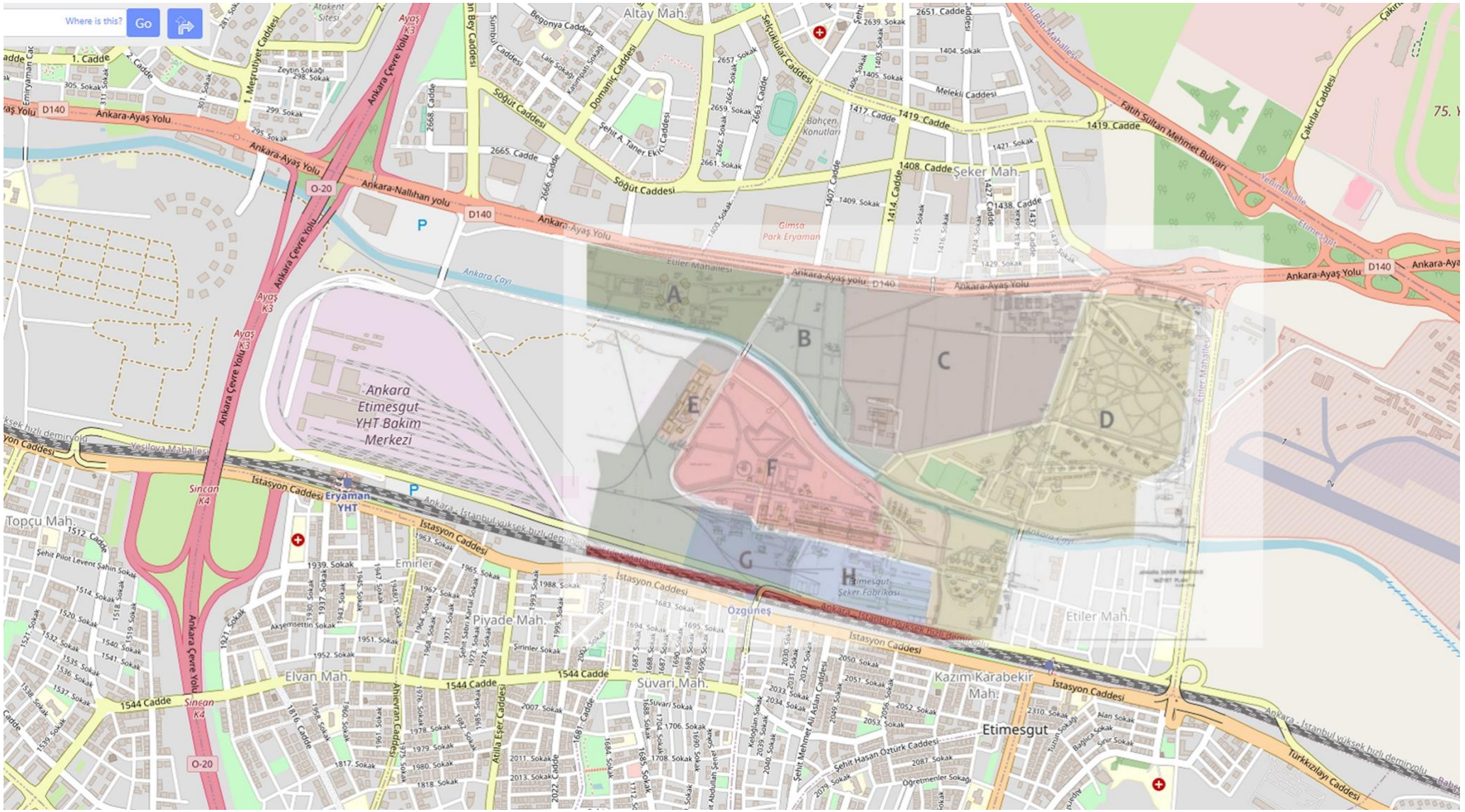

Figure 3 Project Site

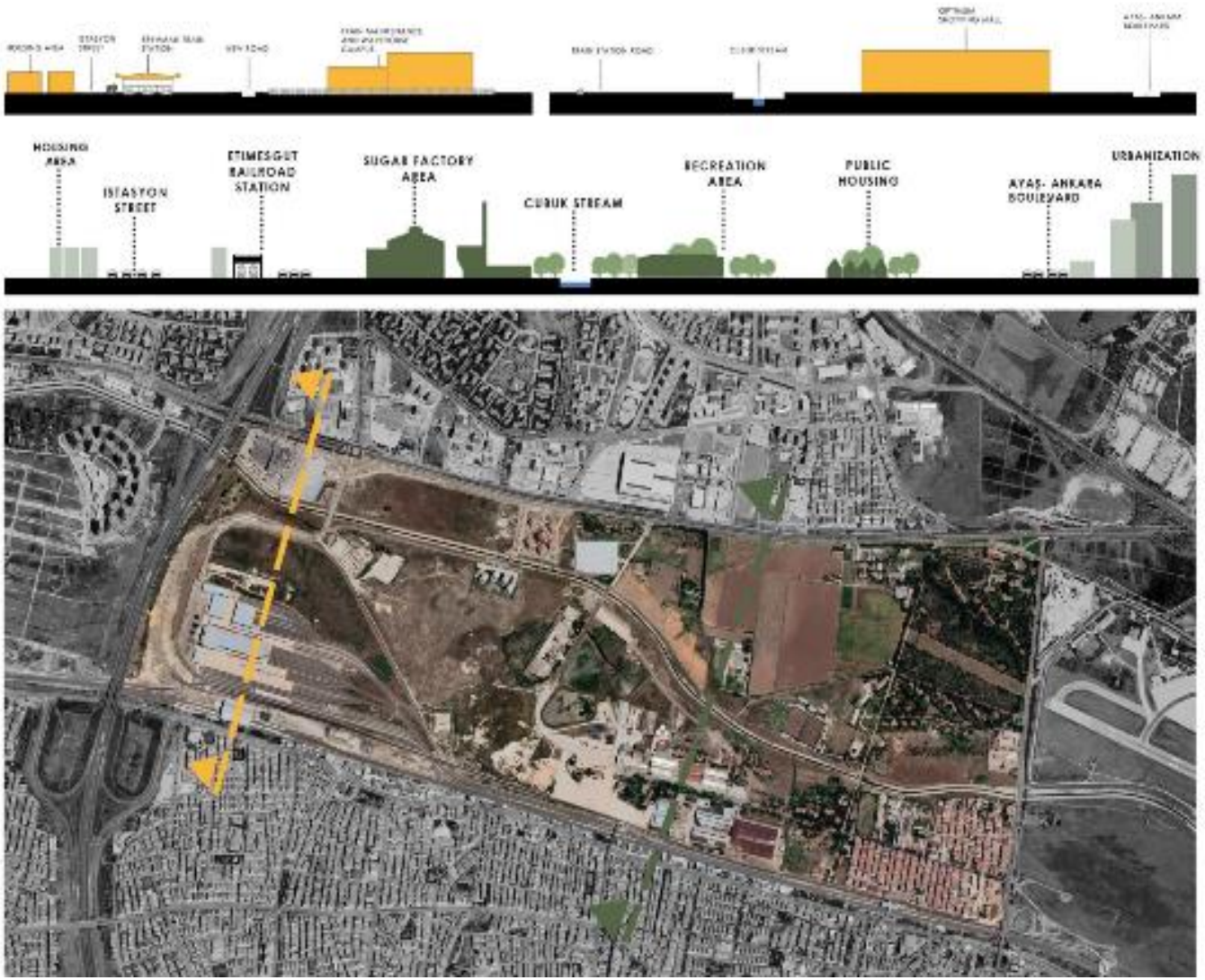

Figure 4 Site Sections (by Duygu Savur)

Özkul, K. (n.d.). *Reconstructıon of Establıshment Strategıes on the Current Sıtuatıon of the Ankara Sugar Factory*.

EVALUATION CRITERIA

Students will be evaluated based on the spatial and technical qualities of their designs, strength of their theoretical approach, quality of their visual and verbal architectural presentations, and progress of their design process throughout the semester.

Preliminary Jury 1: 20%

Preliminary Jury 2: 20%

Final Jury: 60%