

2023 年 8 月 28 日 9 時 30 分～12 時
9:30-12:00, August 28, 2023

[C 計画・設計・論文]
[C Planning/Design/Essay]



C-2 計画・設計
(専攻分野：都市計画)
C-2 Planning and Design
(Major Field of Study: Urban Planning)

受験番号

(Examination I. D.)

- (1) すべての答案用紙の所定の欄に、受験番号を記入しなさい。氏名を記入してはならない。
Write your examination I. D. on all the answer sheets. Do not write your name.
- (2) 問題冊子に受験番号を記入しなさい。
Write your examination I. D. on this sheet.
- (3) 専攻分野として「都市計画」を希望するものは、C-2、C-3 のいずれか 1 科目を解答しなさい。
If your major field of study is “Urban Planning,” then answer either C-2 or C-3.

C— 2 Planning and Design

Propose a “development plan for Site X (approximately 4.9 ha)” and a “Development and conservation concept for the area including Site X (west of Station H)”, by referring to the following descriptions and maps in answer sheets 1 and 2.

1. About Site X and the surroundings

Site X is located in the suburbs of the Tokyo metropolitan area, about 40 minutes by train from central Tokyo. There used to be a textile factory, but it was closed several years ago due to poor business performance and this site has now been cleared. This area has rich natural environment and good access to central Tokyo, so it was decided that the Site X will be redeveloped as a mainly residential area with the station H area as a local center. The topography is flat and there is no soil or water contamination.

Station H is adjacent to the east side of Site X, and a small supermarket and restaurants are located around the station square at the west exit of Station H.

Elementary School H is located to the north of Site X, Junior High School H to the south, and High School M to the west, where the main commuting route to High School M is through Station H.

On the west side of Site X, there is Main Road A, which connects to the surrounding cities. The east side is in the Urbanization Promotion Area and the west side is in the Urbanization Control Area, with Main Road A as the border.

Main Road A and Station Street B have sidewalks and roadside trees. Sidewalks are also provided on the road to the east of Site X.

Many waterways run through and around Site X, symbolizing the rich nature and agricultural land.

2. Planning requirements and required planning documents.

Propose both a “Development and conservation concept for the area including Site X” and a “Development plan for Site X “.

1) Development and conservation concept for the area including Site X (west of Station H) < Planning requirements >

The surrounding area, the west of Station H, including Site X, is an area that includes both

Urbanization Promotion and Urbanization Control Areas, and both the convenience of the station area and the rich natural environment should be taken advantage of. The area around the west exit of Station H should be positioned as a local hub and should include public facilities of appropriate types and sizes, as well as commercial and other facilities.

< Required planning documents >

By using “Answer Sheet 1: Development and Conservation Concept for the Area including Site X (west of Station H)”, propose a development and conservation concept, which includes the following items, using the 1/2500 map and brief explanations. If necessary, you may illustrate diagrams and sketches with the explanations.

- (1) Development and conservation concept
- (2) Land use planning policies (land use, building type, location of various facilities, etc.)
- (3) Transportation policies (flow of pedestrians, bicycles and automobiles, etc.)
- (4) Open space development and conservation policies (location of parks, green spaces, greenways, farmland and other open spaces, etc.)

2) Development plan for Site X

< Planning requirements >

- Collective housing complex:
 - approximately 180 housing units for families
 - approximately 60 housing units for one or two person households
 - ※Residential parking spaces shall be 100% of the number of units, and surface parking spaces shall be provided (mechanical parking is not permitted).
- Commercial and other facilities of appropriate type and size based on planning policy.
 - ※Parking lots shall be provided as needed.
- Public facilities considered appropriate for this area: floor space of approximately 3,000 m²
 - ※Parking lots shall be provided as needed.
- Parks, green areas, and greenways: 8,000 m² or more
 - ※Distributed layout is acceptable.
 - ※These areas should be distinguished from open spaces between residential buildings that are used only by residents of apartment complexes.
- Other facilities necessary for the area, such as bicycle parking lots, garbage collection points, and assembly halls, shall be provided as appropriate.

< Required planning documents >

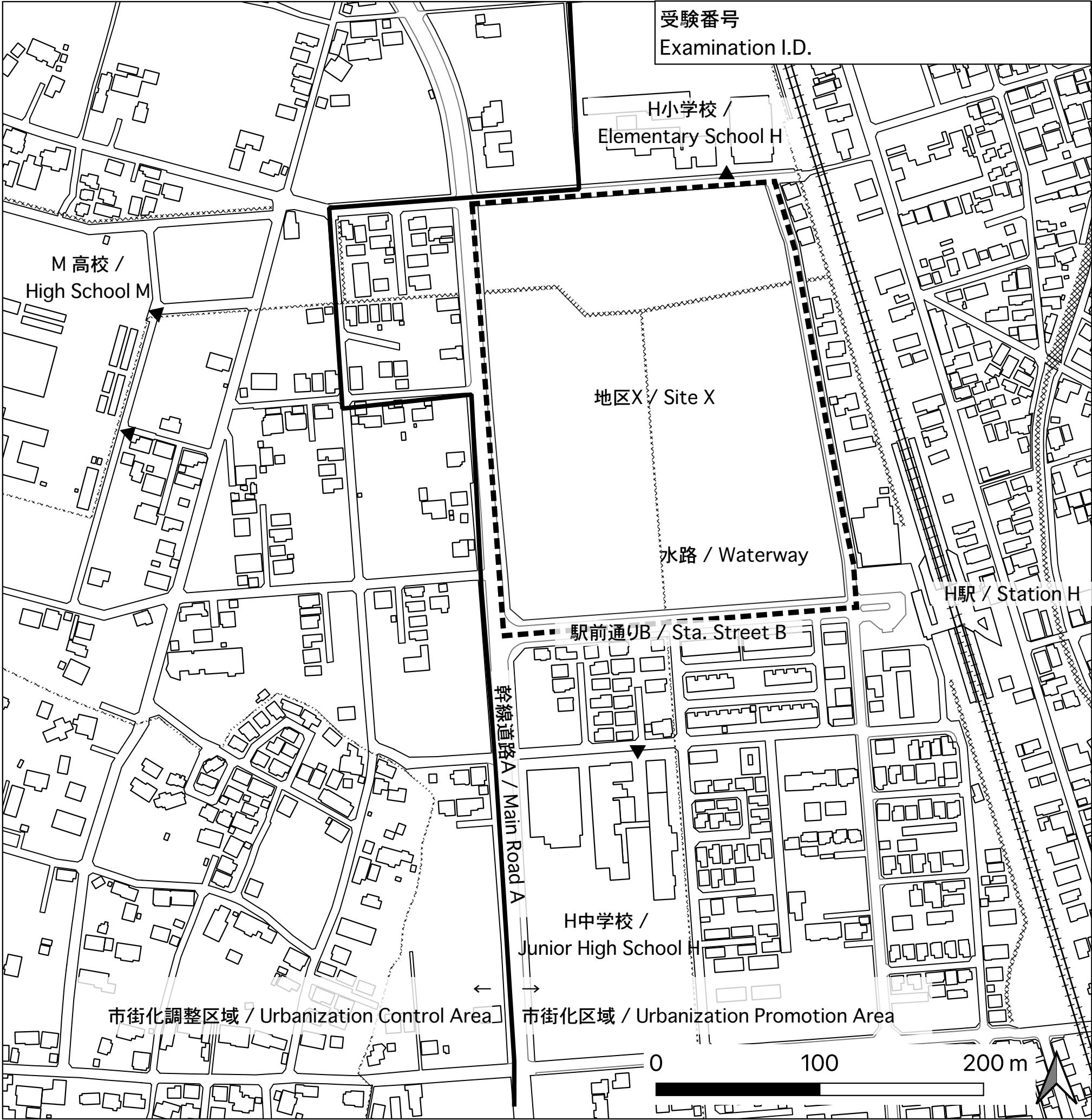
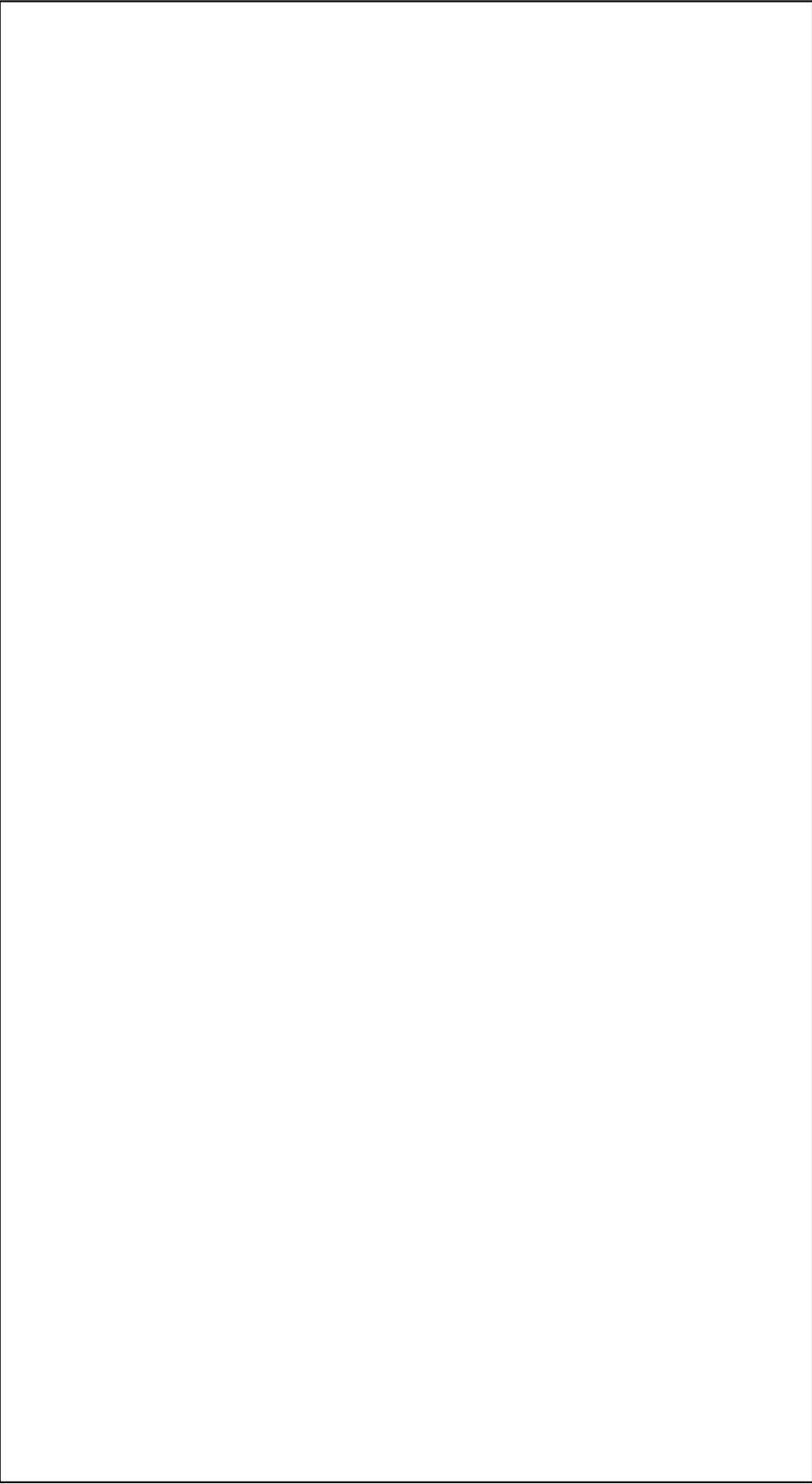
Using “Answer Sheet 2: Development Plan for Site X (Map)” and “Answer Sheet 3:

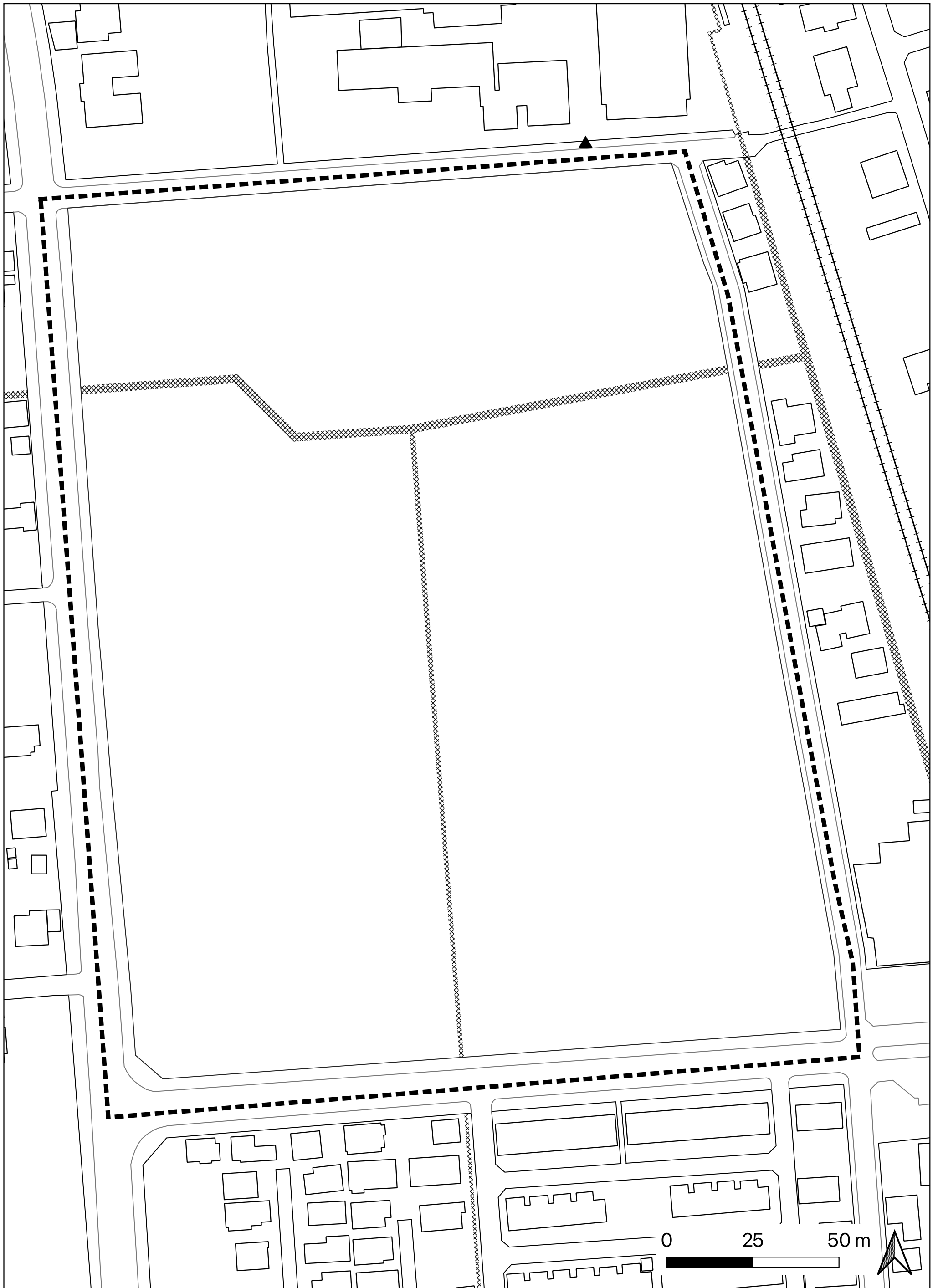
Development Plan for Site X (Texts)”, propose a development plan for Site X, which includes the following items, using the 1/1000 map and explanations. If necessary, you may illustrate diagrams and sketches with the texts.

- (1) Collective housing (form of housing buildings, location of entrances, number of floors, number of units for each housing type)
- (2) Commercial and other facilities
- (3) Public facilities
- (4) Parking (separate for residents and visitors)
- (5) Parks, green areas, greenways, etc.
- (6) Bicycle parking lot(s), garbage collection point(s), community meeting room(s), etc.
- (7) Roads and pathways within the district
- (8) Other open spaces and plantings

End of the document

C-2 答案用紙 1 :
地区Xを含む周辺エリア（H駅の西側）の開発・保全構想
C-2 Answer Sheet 1 :
Development and Conservation Concept for the Area
including Site X (west of Station H)







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[C 計画・設計・論文]
[C Planning/Design/Essay]

C－3 論文
(専攻分野：都市計画)
C-3 Essay
(Major Field of Study: Urban Planning)

受験番号
(Examination I. D.)

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C – 3 Essay (Urban Planning)

You are an urban planner in charge of drafting a desirable future vision of a private railway corridor extending from the center of the Tokyo metropolitan region to the suburbs and is approximately within the 15-40 km range from the center. Here, “private railway” refers to a line operated by a private railway company excluding Japan Railways (JR). Answer the following questions (1)-(5), paying attention to their mutual consistency. Use auxiliary figures and/or tables, if necessary.

For reference, a figure on the next page shows concentric circles of 15 km and 40 km from Tokyo station, respectively.

- (1) Considering a private railway corridor, describe the current situation and possible future issues of the target area.
- (2) Devise and describe several alternative future spatial structures of the area in addition to a business-as-usual structure, along with the logical explanations of the intention of devising them.
- (3) Show the evaluation items to be adopted when evaluating the alternative structures you answered in (2), along with the logical explanation of why you think they should be adopted.
- (4) Select the evaluation item from (3) you think as most important and explain logically what kind of data and analysis are necessary for the evaluation on this item.
- (5) Discuss the system and implementation measures which should be adopted for the planning and realization of the future vision, paying attention to the fact that various stakeholders are generally involved.

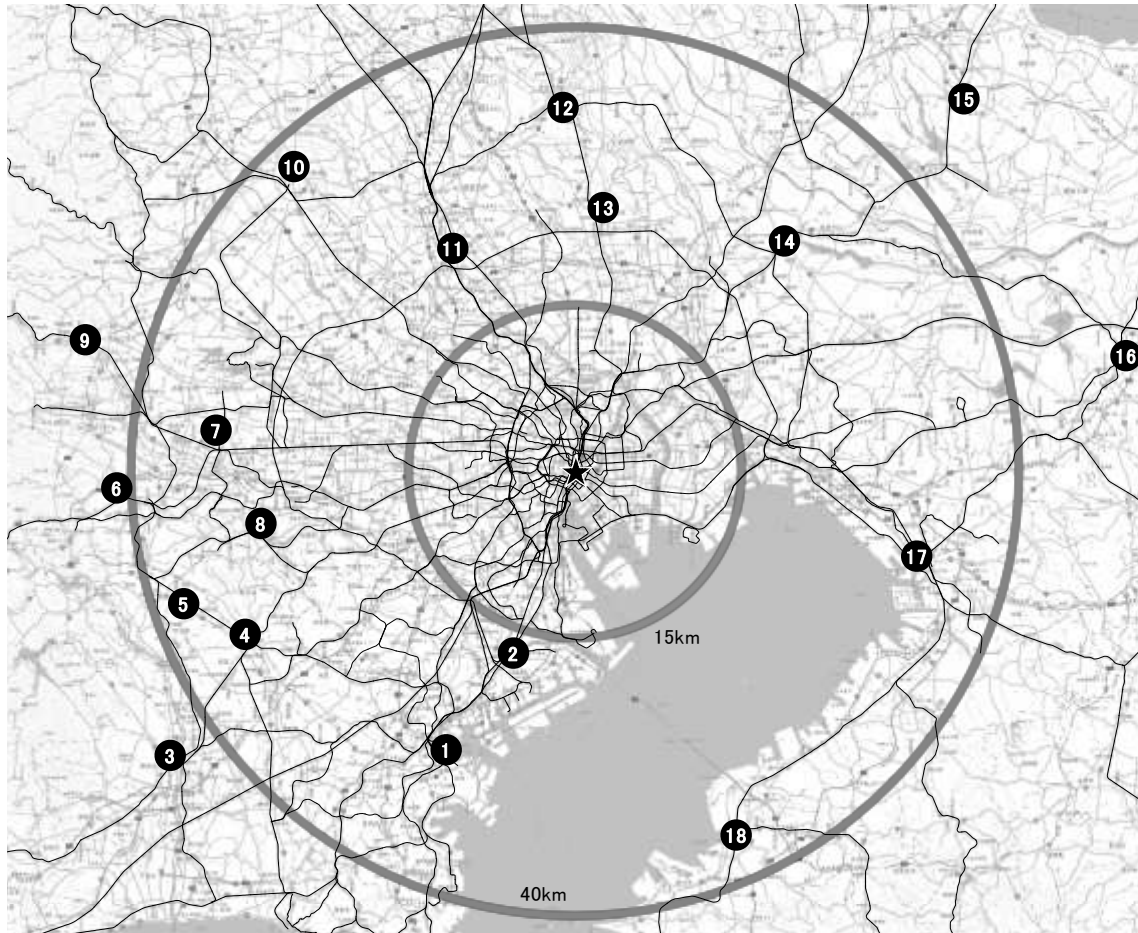


Figure: Concentric circles of 15 km and 40 km from Tokyo station (marked as ★).

Points ①-⑱ are approximate locations of the city halls of the following municipalities.

- | | | | | |
|------------|-------------|-------------|-----------|---------------|
| ① Yokohama | ② Kawasaki | ③ Atsugi | ④ Machida | ⑤ Sagami-hara |
| ⑥ Hachioji | ⑦ Tachikawa | ⑧ Tama | ⑨ Ome | ⑩ Kawagoe |
| ⑪ Saitama | ⑫ Kasukabe | ⑬ Koshigaya | ⑭ Kashiwa | ⑮ Utsunomiya |
| ⑯ Maebashi | ⑰ Chiba | ⑱ Kisarazu | | |