(Released on September 9, 2024) We revised the plan taking into account facility plan adaptations and findings of tree research per request received from the Tokyo Metropolitan Government in September 2023. The revised plan calls for more greenery with fewer trees to be removed.

More Greenery Upon Project Completion

The plan had previously called for an increase of 94 trees over 3.0 meters in height from 1,904 trees to 1,998 trees. Meanwhile, the latest revision calls for **2,304 trees upon completion for an increase of 400 trees.**

	Before redevelopment	After redevelopment
Original plan	1,904	1,998
Revised plan	**1,904**	**2,304**

+400

01 Fewer trees to be removed

We plan to remove 619 trees, which is 124 trees fewer than the 743 trees for removal prior to revision, due to the following reasons.

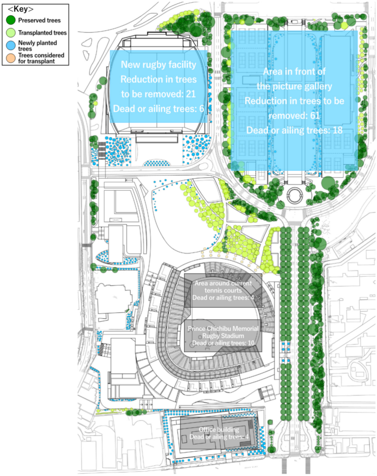
- ✓ Facility design adaptations made with respect to the new rugby facility and the area in front of the picture gallery
- ✓ Reclassification to preservation or transplantation based on individual tree research conducted in 2023 (hereinafter, "the 2023 tree research") (research to assess each tree on an individual basis)
- ✓ Some existing trees are dead or ailing (withered or decaying), etc.

Breakdown of the 124 trees that have been excluded from the scope of removal due to plan revisions

		Totals	**Breakdown**		
			New rugby facility	**Area in front of the picture gallery**	**Others**
	Reclassified from removal to preservation (facility design adaptations)	66	9	57	0
	Reclassified from removal to transplantation (recovery in tree vitality, etc.)	16	12	4	0
Reduction in number of trees to be removed due to plan revisions		82	21	61	0
Reduction in number of dead or ailing trees planned for removal		42	6	18	18

Total reduction in number of trees to be removed in the project	124	27	79	18

Area distribution of the 124 trees that have been excluded from the scope of removal due to plan revisions


<Key>
Preserved trees
Transplanted trees
Newly planted trees
Trees considered for transplant
New rugby facility
Reduction in trees to be removed: 21
Dead or ailing trees: 6
Area in front of the picture gallery
Reduction in trees to be removed: 61
Dead or ailing trees: 18
Area around current tennis courts
Dead or ailing trees: 4
Prince Chichibu Memorial Rugby Stadium
Dead or ailing trees: 10
Office building
Dead or ailing trees: 4

*1 Specific details on the location of transplanted and newly planted trees are yet to be determined and may be subject to change.

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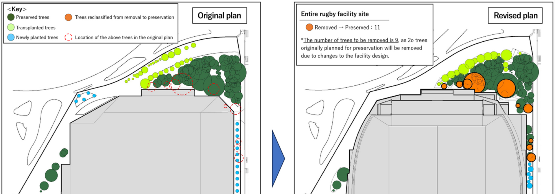
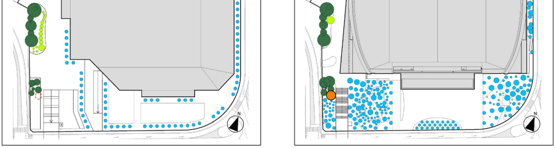
01 New rugby facility design adaptations

The number of trees to be removed in the new rugby facility site will decrease by 27 (including 6 dead or ailing trees)

- ✓ By downsizing the northern section of the new rugby facility, **9 trees for removal** at the Kenkoku Kinen Bunko site **will be preserved.**
- ✓ Based on the results of the 2023 tree research, **12 trees for removal will be transplanted,** including trees judged to be recovering and trees judged to be viable for undergoing root preparation work prior to transplantation. The height of the building will be reduced from approximately 55.0 meters in the original plan to around 48.0 meters out of consideration for the trees adjacent to the new rugby facility.


<Key>
Preserved trees
Transplanted trees
Newly planted trees
Trees reclassified from removal to preservation
Location of the above trees in the original plan
Original plan
Entire rugby facility site
Removed → Preserved : 11
Revised plan

*The number of trees to be removed is 9, as 2o trees originally planned for preservation will be removed due to changes to the facility design.

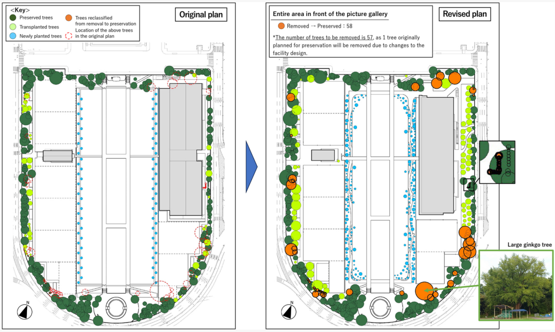


*1 Existing trees shown in the figure for the original plan are based on data from the individual tree research conducted from 2018 to 2019 (hereinafter, “the 2019 tree research”), while existing trees shown in the figure for the revised plan are based on data from the 2023 tree research; tree canopy (shown by size of circle) may differ between the figures due to tree growth, etc.
*2 Preserved trees shown in the figure for the revised plan include trees that have been reclassified from transplant to preservation due to the facility design adaptions.
*3 Only trees 3.0 meters or taller are shown.
*4 Specific details on the location of transplanted and newly planted trees are yet to be determined and may be subject to change.

02 Adaptations to plans for area in front of the picture gallery

The number of trees to be removed from the area in front of the picture gallery will decrease by 79 trees (including 18 dead or ailing trees).

- ✓ Due to changes to the layout and a reduction in the scale of buildings and other structures, **55 trees for removal will be preserved.**
- ✓ Due to changes to the Maruike area, **2 trees for removal will be preserved.**
- ✓ Based on the results of the 2023 tree research, **4 trees for removal will be transplanted,** as they are judged to be recovering.


<Key>
● Preserved trees
● Transplanted trees
● Newly planted trees
● Trees reclassified from removal to preservation
○ Location of the above trees in the original plan
Original plan
Entire area in front of the picture gallery
● Removed → Preserved : 58
*The number of trees to be removed is 57, as 1 tree originally planned for preservation will be removed due to changes to the facility design.
Revised plan
Large ginkgo tree
N
N

*1 Existing trees shown in the figure for the original plan are based on data from the 2019 tree research, while existing trees shown in the figure for the revised plan are based on data from the 2023 tree research; tree canopy (shown by size of circle) may differ between the figures due to tree growth, etc.
*2 Preserved trees shown in the figure for the revised plan include trees that have been reclassified from transplant to preservation due to the facility design adaptions.
*3 Only trees 3.0 meters or taller are shown.
*4 Specific details on the location of transplanted and newly planted trees are yet to be determined and may be subject to change.

POINT Dead or ailing trees

The term “dead or ailing trees” refers to **withered or decaying trees that need to be removed for safety management reasons.**

- Many of the trees in Jingu Gaien have weakened over time. To ensure visitor safety, action is taken to deal with fallen trees and broken branches on a daily basis. Also, approximately 300 dead or ailing trees have been removed and subsequently replaced by planting new ones over the last 15 years.
- Whereas the current number of trees is based on the 2019 tree research, there have been 79 dead or ailing trees over the roughly four years since the research was conducted (42 removed, 32 preserved, 5 transplanted under the original plan).
- We anticipate that a certain number of dead or ailing trees, especially those with low vitality, will continue to occur in future. If any trees that are planned to be preserved or transplanted under the project are later lost upon having become dead or ailing trees, we will replace them with the same number of trees to create an abundant green environment.

POINT Reasons for tree removal

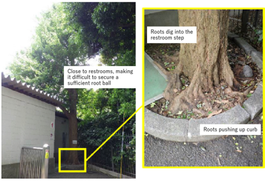
- Although we will handle each and every tree with care and furthermore plan to preserve as many trees as possible, trees deemed difficult to preserve on the site will be transplanted within the Gaien (outer garden) site.
- Reasons precluding transplantation of some trees include designations such as, “priority control invasive alien species,” “close proximity to existing facilities precluding root preparation work necessary for transplantation,” and “weak tree vitality.” Although such trees will be removed out of necessity, we plan to return them to the Gaien site and otherwise utilize them after removal.
- Of the 619 trees to be removed, 474 trees will be removed from the Scenic District for the following reasons.

Reasons for removal	No. of trees
(i) Priority control invasive alien species	28
(ii) Close proximity to existing facilities	270
(iii) Weak tree vitality	164
(iv) Soil contamination	2
(v) Other*	10
Total	474

Reasons for removal of trees in the Scenic District

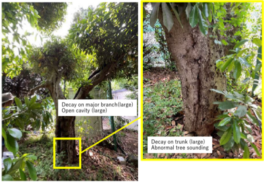
* The 2023 tree research determined that these trees can be transplanted due to a recovery in vitality or the progress of the project, but they are outside the scope of the redesigned new rugby facility site and the area in front of the picture gallery, so they remain classified as trees to be removed, in line with the original plan based on the 2019 tree research. As the facility designs progress, the classification of these trees will be updated to reflect the latest research results.

Examples of trees in close proximity to existing facilities
(to be removed as preparation for transplantation cannot be carried out)


Close to restrooms, making it difficult to secure a sufficient root ball
Roots dig into the restroom step
Roots pushing up curb

Baseball field first base side, Y02-172 trident maple

Example of a tree with weak vitality


Decay on major branch(large)
Open cavity (large)
Decay on trunk (large)
Abnormal tree sounding

Baseball field first base side, Y02-086 Japanese stone oak

Examples of trees in close proximity to existing facilities (to be removed as preparation for transplantation cannot be carried out)

Row of trees next to the indoor tennis court

Row of trees next to the indoor ballgame facility

Examples of trees unsuitable for transplantation

* Priority control invasive alien species: Species such as the Glossy Privet (ligustrum lucidum), which is designated as a "priority control invasive alien species" in the "List of Invasive Alien Species That May Cause Damage to the Ecosystem in Japan (List of Invasive Alien Species for the Prevention of Ecosystem Damage)" prepared by the Ministry of the Environment and the Ministry of Agriculture, Forestry and Fisheries in 2015.

02 More newly planted trees

To create a more abundant green environment, the number of newly planted trees has been **increased by 261 trees, from 837 trees to 1,098 trees.**

01 New rugby facility

On the east side of the site, new trees will be planted in counterpoint to the existing trees in the plaza in front of the picture gallery, giving further consideration to continuity along the green walkway that runs north-south.In addition, plans for the south side of the site call for enhancing integration with the Central Plaza and new woodland areas in creating space for resting and walking as well as distinctive space that strikes a balance among elements such as large volumes of medium-height shrubbery and light thickets of trees.
As a result, the number of newly planted trees has been increased by 131 trees from 81 trees under the original plan to 212 trees.

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02 Area in front of the picture gallery

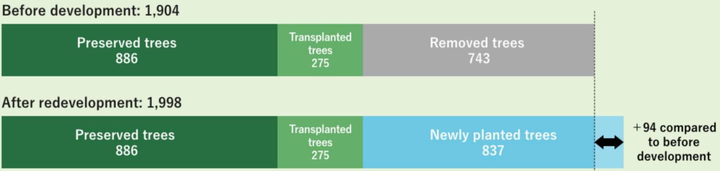
The revised plan calls for maintaining the essence of the plaza as it was when initially built. This will involve positioning newly planted trees enlisting an approach that entails planting trees of various species and heights. Moreover, the number of newly planted trees has been increased by 130 trees from 398 trees under the original plan to 528 trees.

	Totals	Breakdown		
		New rugby facility	Area in front of the picture gallery	Others
Original plan	837	81	398	358
Revised plan	1,098	212	528	358
Increase	+261	+131	+130	0

Revisions to the number of newly planted trees

As a result of the above revisions, the number of trees has been changed from the original plan as follows.
Please also refer to the explanatory video detailing a breakdown of these changes.
https://www.youtube.com/embed/p8gKGMprdLE?si=H98g6KQoxBV5jlY3&start=102

Original plan



Before development: 1,904

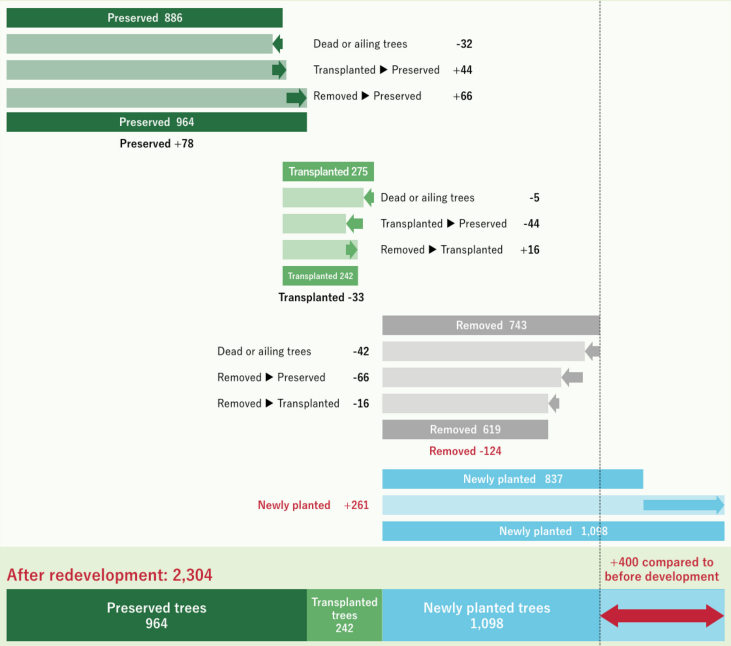
Preserved trees 886 | Transplanted trees 275 | Removed trees 743

After redevelopment: 1,998

Preserved trees 886 | Transplanted trees 275 | Newly planted trees 837

+94 compared to before development

Revised plan



Preserved 886

Dead or ailing trees -32

Transplanted ▶ Preserved +44

Removed ▶ Preserved +66

Preserved 964

Preserved +78

Transplanted 275

Dead or ailing trees -5

Transplanted ▶ Preserved -44

Removed ▶ Transplanted +16

Transplanted 242

Transplanted -33

Removed 743

Dead or ailing trees -42

Removed ▶ Preserved -66

Removed ▶ Transplanted -16

Removed 619

Removed -124

Newly planted 837

Newly planted +261

Newly planted 1,098

After redevelopment: 2,304

+400 compared to before development

Preserved trees 964 | Transplanted trees 242 | Newly planted trees 1,098

*1 The number of trees described on this page only covers trees 3.0 meters or taller.
*2 Transplanted trees include 19 trees under consideration for transplantation.

Increased Distance Between the Four Rows of Ginkgo Trees and the Baseball Stadium

01 Findings of ginkgo tree root study

✓ Root studies performed with respect to the western row of the Four Rows of Ginkgo Trees on two occasions, first in January 2023 and again January 2024, indicate that there are no roots with a diameter of 30 millimeters or more beyond approximately 17.0 meters from the curb of the sidewalk that runs along the Four Rows of Ginkgo Trees.

POINT

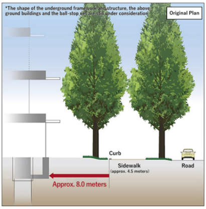
In the environmental impact assessment report the criteria for making judgements on the trees has been set as follows. “If root system research results in fewer than four large roots (diameter of at least 30 millimeters) in the surveyed section (1.0 meter x 1.0 meter), the roots may be cut, and if the research finds four or more roots, girdling shall be carried out on the roots. In cases where a tree doctor has judged that there are multiple roots that have an influence on the growth of a tree, then efforts will be made to preserve said tree, including adjustments to facility design, based on the opinion of the tree doctor.”

02 Extended setback width for the new baseball stadium and additional root preservation measures

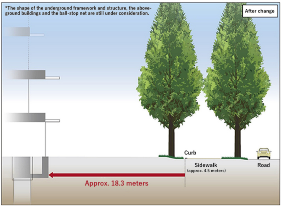
✓ Based of findings of the study, we made the decision to designate the area up to approximately 17.0 meters from the curb of the sidewalk running along the Four Rows of Ginkgo Trees as a “root protection zone,” and to furthermore secure an additional 1.3 meters to serve as space for root growth and construction work.

✓ As a result, **the setback width of the new baseball stadium is to be extended from approximately 8.0 meters to approximately 18.3 meters.** The ginkgo tree root protection zone has been increased by more than two-fold, thereby creating a better environment for growth of the ginkgo trees.

Original Plan


*The shape of the underground framework and structure, the above-ground buildings and the ball-stop net are still under consideration.
Original Plan
Curb
Sidewalk
(approx. 4.5 meters)
Road
Approx. 8.0 meters

After change


*The shape of the underground framework and structure, the above-ground buildings and the ball-stop net are still under consideration.
After change
Curb
Sidewalk
(approx. 4.5 meters)
Road
Approx. 18.3 meters

✓ Root system research is being conducted by IBIDEN Greentec Co., Ltd. Based on the opinions of several tree doctors and other experts, we reached our decision on this policy.

✓ Various measures have been implemented since April 2024 to improve the growing environment of the ginkgo trees. For more details about these measures, please refer to the information later on here and the release dated July 26, 2024.

* For specific details on root research findings and additional root preservation measures, please refer to First Root System Research Work – North-South on West Side of Gingko Trees (in Japanese), Report on Ginkgo Tree Vitality Research – Annual Survey (in Japanese), and Second Root System Research Work – North-South on West Side of Gingko Trees (in Japanese).

* For specific details on the second opinion of a third party, please refer to Second Opinion on the Survey of the Westernmost Row of the Four Rows of Ginkgo Trees and Preservation Measures Related to the Jingu Gaien District Type-1 Urban Redevelopment Project (in Japanese).

* For specific details on the second opinion of a third party, please refer to 2. (4) Input from tree doctors and other experts of Further Measures to Preserve Trees and New Measures to Create Greenery in the Jingu Gaien District Urban Redevelopment Project (Supplementary Materials).