5. Soil and water conservation and drainage

The landscape was designed based on the on-site measured data, including the peak discharge of 25-year floods from a 60-minute rainfall, angles of various slopes and corresponding runoff coefficients, in accordance with the Soil and Water Conservation Technical Guide. Various soil and water conservation facilities, such as stone drain, grassed waterway, artificial streams, rip rap, and ecological detention pond, were constructed with ecological engineering methods to maximize the effect of landscape ecology and soil and water conservation.



b. How was the project area enhanced, restored or rehabilitated after the completion of the project?

The landscape resources distributed in Yangming Park were integrated through the landscaping method of "merging the new with the old," with "10 scenes of Yangming Park" as the landscape storyline. The improvements can be perceived in the following three aspects :

1. Historical aspect:

The historical memories of the whole Park can be linked through the all-age trails and the renovated Philosophy Trail. Tourists can visit centennial old trees planted in different times and historical corners through different trails. The Park is a place for citizens to rest, recall the past and meditate.

Scene 1

Bronze statue of Wang Yang-ming, philosopher from Ming dynasty, and Li Jian-xing

Scene 2 The square and pond in front of Guangfu Building

Scene 3 hangxin Pond and Trail

Scene 4

Historical landscape of torii and Philosophy Trail



In the Japanese-style garden, one seems to go back in time, entaring the torif, embrading the old tree, leaning on the stone tables and chairs, looking to the distance through withered branches, with the tea scent lingaring in the air and the tea trails unfolding in the garden.















2. Ecological aspect:

The Park contains a great number of protected trees in a high density. Excessive facilities and hard pavement were removed to restore the natural landscape. Besides the newly added eco habitat, a poetic and philosophical cherry tree garden was built in a valley with meandering streams to make it a park where nature and human co-exist.

Scene 5 Sweet Gum Plaza

Scene 6 Flower Clock

Scene 7 Cherry Tree Garden





10.00

3. Aesthetic aspect

To display the natural aesthetics of the steams at the hidden valley in the Park, the long forgotten park facilities were optimized with their original functions repaired and the volume reduced, including removal of the facility surrounding the Fountain, rebreeding of native fern species at Xiaoyin Pond, opening of the masonry rock tunnel and connection to Yoshinobu Yamamoto's Japanese-style garden, to merge them into the natural landscape and add a philosophical atmosphere to the Park.

Scene 8 Fountain

Scene 9 Xiaoyin Pond Fern

Scene 10 Old Masonry Rock









QUESTION¹⁵ FINANCIAL AND BENEFITS TO COMMUNITY (20points)

Outline the financial benefit and detail as follows

67

a. Gross developme

Planned cost US\$2,116,037 (NT\$63,481,104)

Actual cost US\$1,730,422 (NT\$51,912,657) Ū

npletion)

2

b. Is the project profitable audits payback period?

- 1. The parking lots with hard pavement were transformed into a natural cherry tree garden with streams to improve the value of ecology in the whole Yangming Park in line with the core value of the national park.
- 2. With the flows of people and vehicles in front of the Flower Clock separated to reduce traffic time and accident rate, and all-age trails set up, the Park is people's park that meets the requirements of the times.
- 3. A combination of the convenient walking space and magnificent landscape effectively constitutes continuous sightseeing spots to boost the tourism industry and improve the quality of living environment in the neighborhood.
- 4. Due to the improved traffic flow in the Flower Clock Plaza and the construction of the well-planned all-age trails in the Park, visiting the Park has become easier and the duration of stay has been extended. Complimented with Flower Festival-related activities, the Park has further promoted the economic activities in the community.
- 5. The annual number of visits by schools and the tourists amounts to 3,439,000. The spending on the industry is estimated to exceed US\$25,800,000.
- 6. This project increased the green coverage (including the area of reduced parking lots) to enhance the integrity of ecosystem, slow down the global warming, reduce the heat island effect, improve ecological habitats, mitigate the pollution of noise, improve the air quality, beautify the environment and promote the sustainable development. With around 36,096m² of the multi-layer eco-environment, the annual carbon dioxide fixation is 1,082,880kg. Added by 735,840 kg reduced carbon emissions resulted from tourists taking the public transportation instead of driving in a year, 1,818,720kg carbon emissions can be saved in one year. The transaction price would be US\$18,187.2 (NT\$545,616) if the unit price is US\$10 per ton.













c. What is the intrinsic value you can give to the project?

1. Preservation of a historic garden for Yangmingshan National Park

- (1) Established in Japanese colonial period, it is Taiwan's first national park. As a classic model which combines two oriental styles – Japanese and Chinese styles, it is a good place to research the history of garden.
- (2) Besides the preservation of a historic asset, surface streams and a detention pond were created and the cherry tree garden was restored to improve the content and beauty of the Park.

2. People and organism-friendly environment and facilities

- (1) Artificial facilities were minimized and the eco habitats were expanded to be the cradle of ecology in the surrounding areas.
- (2) The original stairs trails were changed to all-age trails on a gentle slope and the versatility of park facilities were improved so that they could be accessed by all.
- (3) Great accessibility for tourists and eco habitats for organisms make the Park a perfect place for environmental education.





3. Reinforcement of the existing recreational activities

- (1) The improved hidden stone trails in the forest that link the historic relics, special plants and other ecological resources in the Park ensure the integrity of the visit.
- (2) With a touch of Zen and tranquility, the Park is great for meditation, eco-classroom, and diverse recreational activities for tourists of all ages. It creates more fun for citizens to visit
- (3) The preservation of history and ecology conservation help residents in the community develop a sense of identity with the living environment so that they are willing to join the eco-tour industry.

d. Generally how does the community benefit from their project?

- 1. Increased bio-diversity: Impermeable pavement on the parking lots were turned into a cherry tree garden, excessive amenities were removed and trails merged into the natural landscape to optimize the eco habitats.
- 2. Improved environment in the entire area: Since Yangming Park has a vast hinterland, the project generates extended benefits to various aspects in the north of Taipei City, including the catchment and drainage, soil and water conservation,
- 3. Promotion of eco-tours: The safe trail system and the routes connecting the "10 scenes of Yangming Park" extend the duration of stay, increasing the interaction between vendors in the community and tourists and providing opportunities for residents to join the eco-tour industry.

The ancient bridge with flowing water contains the beauty of the classical garden. 73



e. On completion of the project how is the maintenance managed?

- 1. A management division under PSLO is in charge of the daily maintenance of the Park, including cleaning and maintenance of the Park's facilities and tree pruning.
- 2. Professional trainers are employed to train residents in the community and interested citizens to be environmental interpreters and volunteers in a bid to raise the quality of recreational activities and services, and develop a sense of identity and community awareness among citizens.
- 3. Consultation is provided to local industries and residents to establish environment, ecology, landscape and communityrelated nonprofit organizations (NPO) and non-government organizations (NGO).
- 4. The Park provides schools and education agencies throughout the nation with an ideal option for field trips and education on environment, ecology, landscape and cultural history.
- 5. In partnership with public and private training institutions, Yangming Park's Guangfu Building functions as a venue for business meetings and education and training. As a recreational place, Yangming Park promotes the development of the service industries, including the catering industry, local specialty stores, flower industry and cultural and creative industry.
- 6. In-depth tour to Yangming Park that is both intellectual and sensational is promoted and included in the tour packages for general nationals.
- 7. Events such as ecology, culture, wedding and life themed photography competitions, and exhibition and sale of cultural and creative souvenirs are organized to promote the beauty of Yangming Park at home and abroad.



f. Any annual allocation of fund to ensure the environment remains

Yes. The fund is planned and allocated by PSLO annually. The fund includes the expenses for facility maintenance, plant renewed and trees pruning, cleaning of the environment, ecological rehabilitation and education and training.

g. Is this project funded from private or public budget?

It is funded with the public budget from PSLO. The increased tax coming from the thriving private sector will return to the public sector for subsequent maintenance and management of the Park to achieve sustainable development.





Section 3 summary of the Project

3.1 100-Word summary

The renovation project of the century-old Yangming Park significantly increased the green coverage, permeability, and the water area to enhance bio-diversity and offset carbon emissions in the area, with ecology restoration as the core value. Also, in response to modern social, environmental and regulatory requirements, the innovative method "merging the new with the old" was employed to equip the Park with both the historic appearance and modern functionalities.

3.2 300-Word summary

Located in Taiwan's first national park and close to the capital of Taipei, Yangming Park has an important role in ecological rehabilitation, citizens' recreation and environmental education. In response to the climate change, the project prioritized ecological rehabilitation by removing the hard pavement on three parking lots, restoring the cherry tree garden, expanding the water area and streams with traditional masonry techniques, using the rocks excavated from the site for stone landscaping, providing habitats for organisms, preserving the Japaneseand Chinese-style park facilities, and building an eco-garden with the new and the old merged together. Besides, to meet the modern usage and regulatory requirements, the driving lanes in front of the Flower Clock were moved elsewhere to separate people from vehicles so that more space was reserved for tourists and the Flower Clock was highlighted as the landmark of the Park. The Park was made suitable for all, with all-age trails that connect the

"10 scenes of Yangming Park." It is a perfect place for the family to take an intellectual tour. At night, low illumination is provided along the trails, allowing organisms to rest during the night. Yangmingshan Qianshan Park, the second place winner of the FIABCI World Prix d'Excellence Awards 2017, is the gate to the national park, while Yangming Park is the hall behind the gate. The two parks combine to be a dazzling emerald for citizens to recreate in Taipei suburbs, and also an important bridge to the ecology and history in Yangmingshan National Park.













Spring charry blossoms





Section 5 **Appendix**



土木工程類〔佳作〕



主辦機關:臺北市政府工務局公園路燈工程管理處 設計單位:中冶環境造形顧問有限公司 監造單位:中冶環境造形顧問有限公司 施工單位:佳翰營造有限公司

一、工程概述

1.陽明公園自民國39年闢建,園區內分布開闢前之日治時期設施與開闢後各階段所建置設 施,如今公園景觀出現種種課題:除了人造結構物阻擋了周邊大屯山與紗帽山景,石庭水 景與植栽和諧的構圖也已走樣, 遑論園路動線凌亂、鋪面劣化... * 2. 為找回陽明山的魅力,重現臺北都會地區的自然公園,此次公園整建計畫,並以拆除一

遮蔽 · 修景-美化 · 修復-保全 · 更新-創造之景觀基本原則來做設計 · 二、工程之創新性、挑戰性及周延性

1.櫻花林溪流區

將一半之停車場改造為櫻花林溪流區、將長期使用率低之停車場瀝青鋪面打除一半,以生 態工法將其變成櫻花林及自然的生態溪流谷地。

2.花鐘廣場及人車分道

本次計畫特與交通及水保相關單位協調辦理。透過各種申請審查程序。將車道由花鐘前方 **改為由後方經過**,花鐘左右並群植櫻花簇擁。從此遊客將可在不受車輛干擾情況下,由櫻 花林沿著溪流散步到櫻花廣場遊覽、拍照、讓年輕人也留下來陽明山花鐘一遊的美好回 憶。

3.小隱潭蕨園區

將峽谷封閉部分打開重新整理。並請台大植物專家郭城孟教授前來會勘。發現本區蕨類種 類繁多且珍貴,只要將步道動線及品質重新整理,並在入口處補植筆筒樹強調,小隱潭就 是最美的天然蕨園。

4.噴水池及老楓香林區

將不自然的設施及步道,改造成低調自然的材料,透過全齡坡道系統的串連引導,使噴水 池及老楓香林及古典的涼亭可以被襯托出它原本不凡的氣質 -

- 三、工程優良事蹟及顯著效益
- 1.讓大片瀝青鋪面變櫻花林溪流區,重新以大片櫻花林及溪流美景確立陽明公園櫻花季時 **之**龍頭地位。
- 2.重新整理小隱潭,串連磺溪上遊沿溪步道。
- 3.讓花鐘廣場人車分道,更安全更美觀。
- 4.讓噴水池更自然更親切。
- 5.讓全齡共享公園。
- 6.讓原有老樹石組等,因環境改善使優點更出色更能被遊客發現。
- 7.當地里長十分肯定本工程之設計內容及改善成果,並一直給予本案協助。











Hyperlink

Reported



Parks and Street Lights Office (PSLO) Two-time Winner of the Lighting Annual Award, the Oscar Award in the lighting sector, with Yangming Park Renovation Project



Parks and Street Lights Office (PSLO) Winning the Taipei City Public Works Excellence Award with two construction projects

travel



China Times Besides the Festival of the Calla Lily, cherry blossoms in Yangmingshan are in full bloom



Formosa English News

Formosa English News – Picture of the day: The Yangmingshan's Flower Festival opens with camellia and cherry flowers blooming first



XinMedia

The Flower Festival opens with mobile travel service stations set up in Yangming Park



– Merit Times

Yangming Park renovated to be the first brand for cherry blossom watching



EpochTimes

Different views in day and night during Yangmingshan's cherry blossom season



EpochTimes The ancient Henling Trail in Taiwan's Yangming Park



 Chinese Television System (CTS)
Don' t miss narcissus and azaleas during the cherry blossom season with tips for watching flowers in Yangmingshan!

Section 6 Photograph


































































