

PWP Item No. 4444DS

Construction of Dry Weather Flow Interceptor at Wan Chai East

**Task Force on Harbourfront Developments on Hong Kong
Island, Harbourfront Commission**

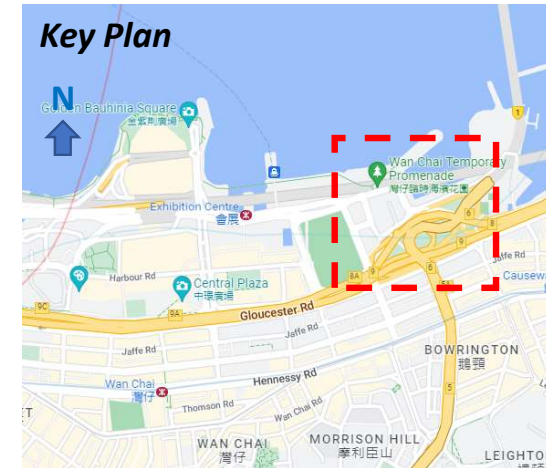
Date : 25 April 2023



Background

- Last consultation with Task Force on Harbourfront Developments on Hong Kong Island on 1 December 2022
- Comments received from Task Force considered in the enhanced design of filtering station:-
 1. Reduce footprint of the dry weather flow filtering station
 2. Review locating the filtering station to Tunnel Approach Rest Garden

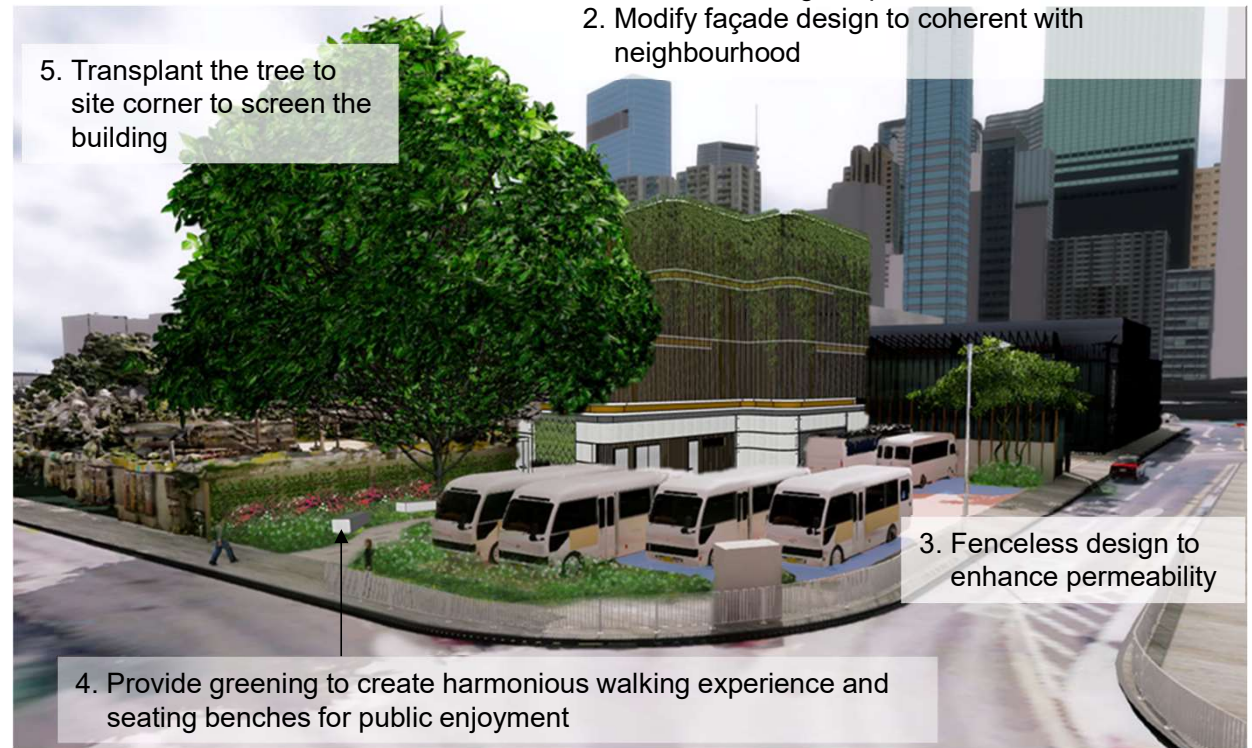
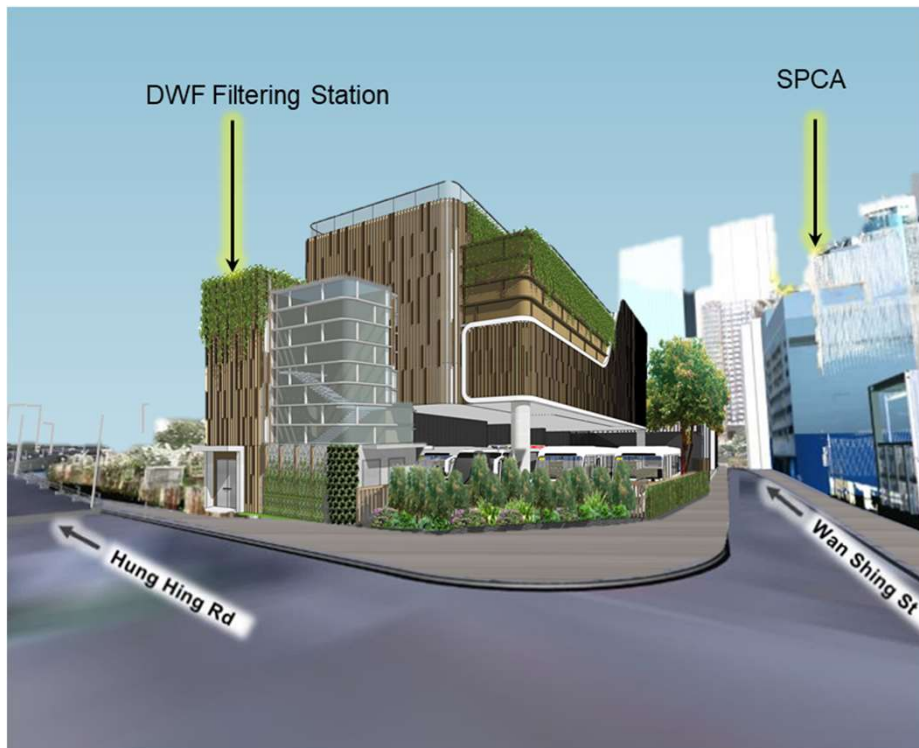
General Layout



Key Improvements on Filtering Station

Original Design

Enhanced Design



1. Reduce building footprint
2. Modify façade design to coherent with neighbourhood

5. Transplant the tree to site corner to screen the building

3. Fenceless design to enhance permeability

4. Provide greening to create harmonious walking experience and seating benches for public enjoyment

View from Wan Shing Street



**Remark: The pattern design of the paving is indicative*



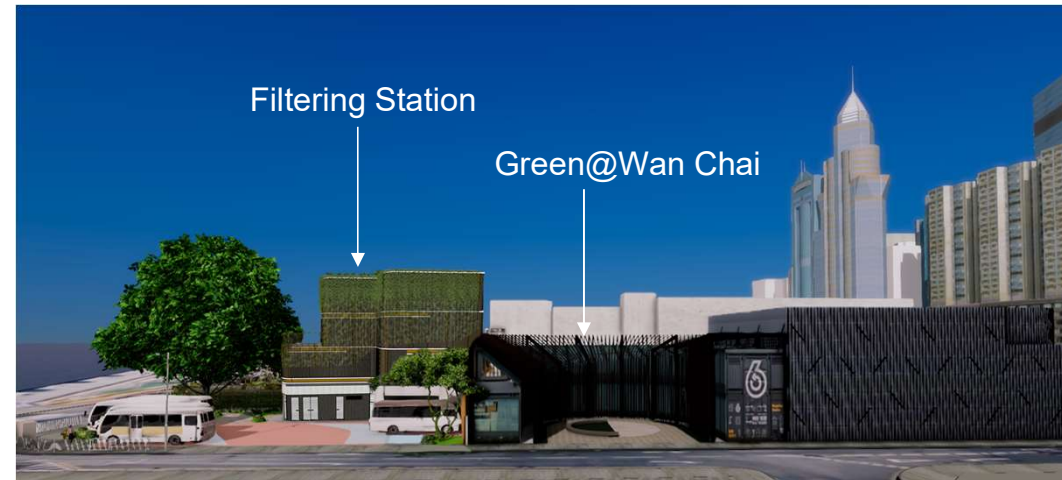
Reduce building footprint



Modify façade design to coherent with neighbourhood



Fenceless design to enhance permeability



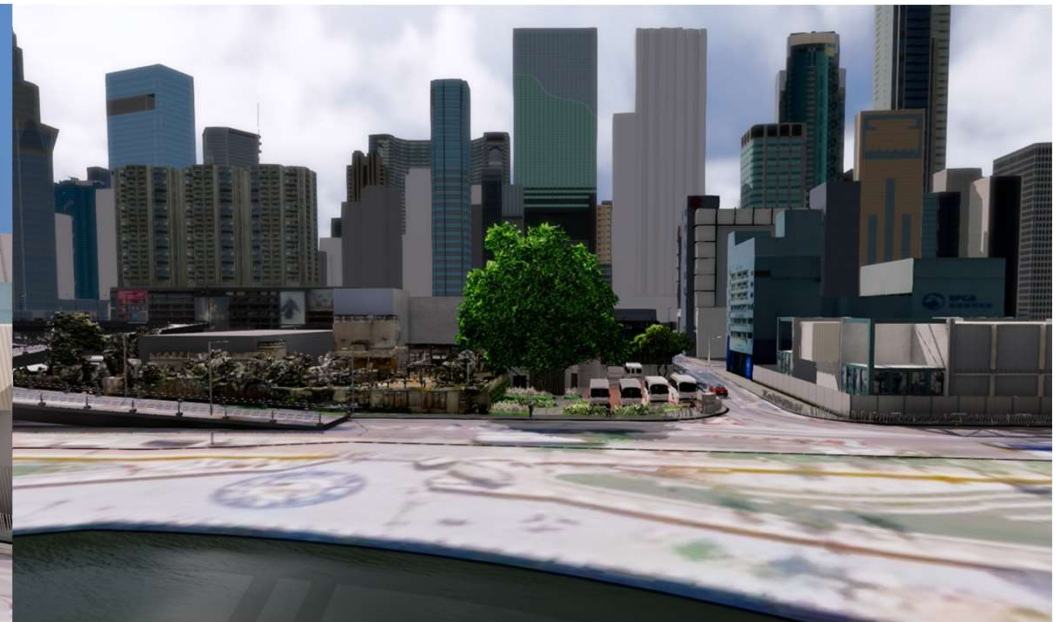
View from Hung Hing Road



Provide greening to create harmonious walking experience and seating benches for public enjoyment



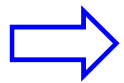
Transplant the tree to site corner to screen the building



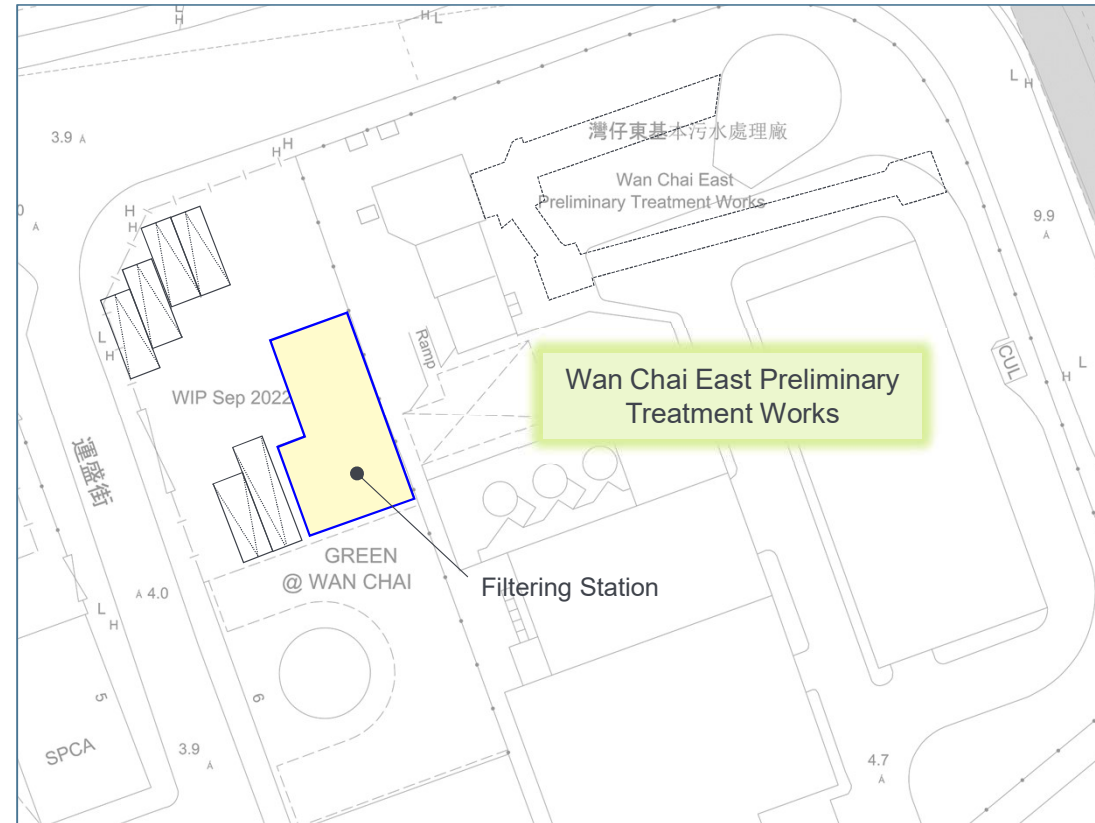
Operational Benefit

Benefit of locating adjacent to Wan Chai East Preliminary Treatment Works (PTW)

- Daily operation carried out within PTW (e.g. loading screens in PTW area)
- Share use of power supply (e.g. eliminating the need for a dedicated transformer);

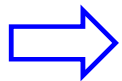


In turn reducing spatial requirement of filtering station

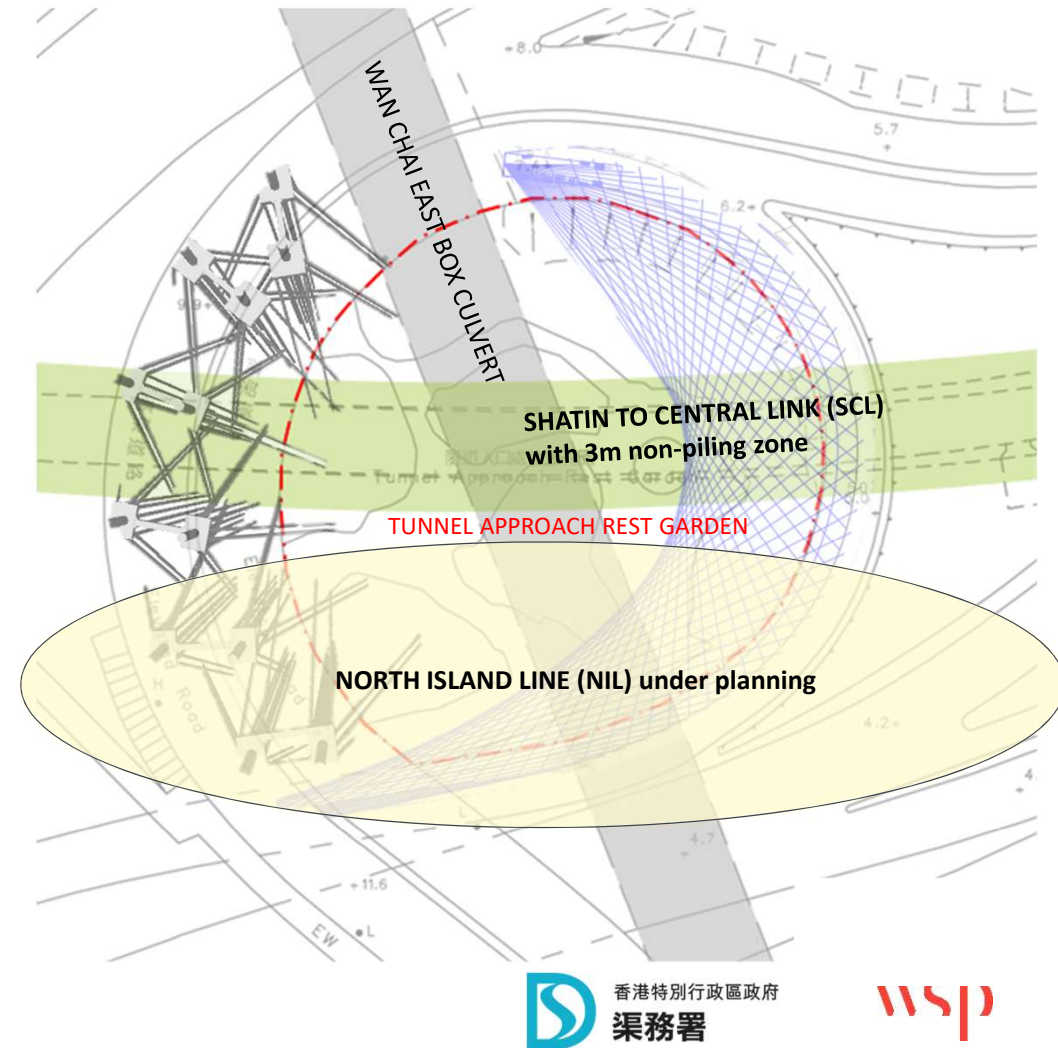


Constraints at Tunnel Approach Rest Garden

- Existing Shatin To Central Link
- Existing large box culvert
- Congested raking piles of Canal Road Flyover
- Sightline limit of existing flyover
 - *Avoid obstacles in the blue visibility splay (Transport Planning and Design Manual Volume 2 S3.3.5)*
- Railway under planning - North Island Line



Therefore, NOT technically feasible to locate the filtering station at Tunnel Approach Rest Garden.



Flow Interception Device at Tunnel Approach Rest Garden

Landscape Treatment



Existing Condition



Proposed Scheme

Thank you