

Item No.: 8g\_Supp

Meeting Date: March 22, 2022

# World Trade Center West (WTCW) Roof Replacement

Rod Jackson, Capital Project Manager

Susie Archuleta, Real Estate Manager



# Action Requested

Construction Request Authorization: \$1,815,000

Estimated Total Project Cost: \$2,115,000



PIER 69

PIER 66

PROJECT  
LOCATION

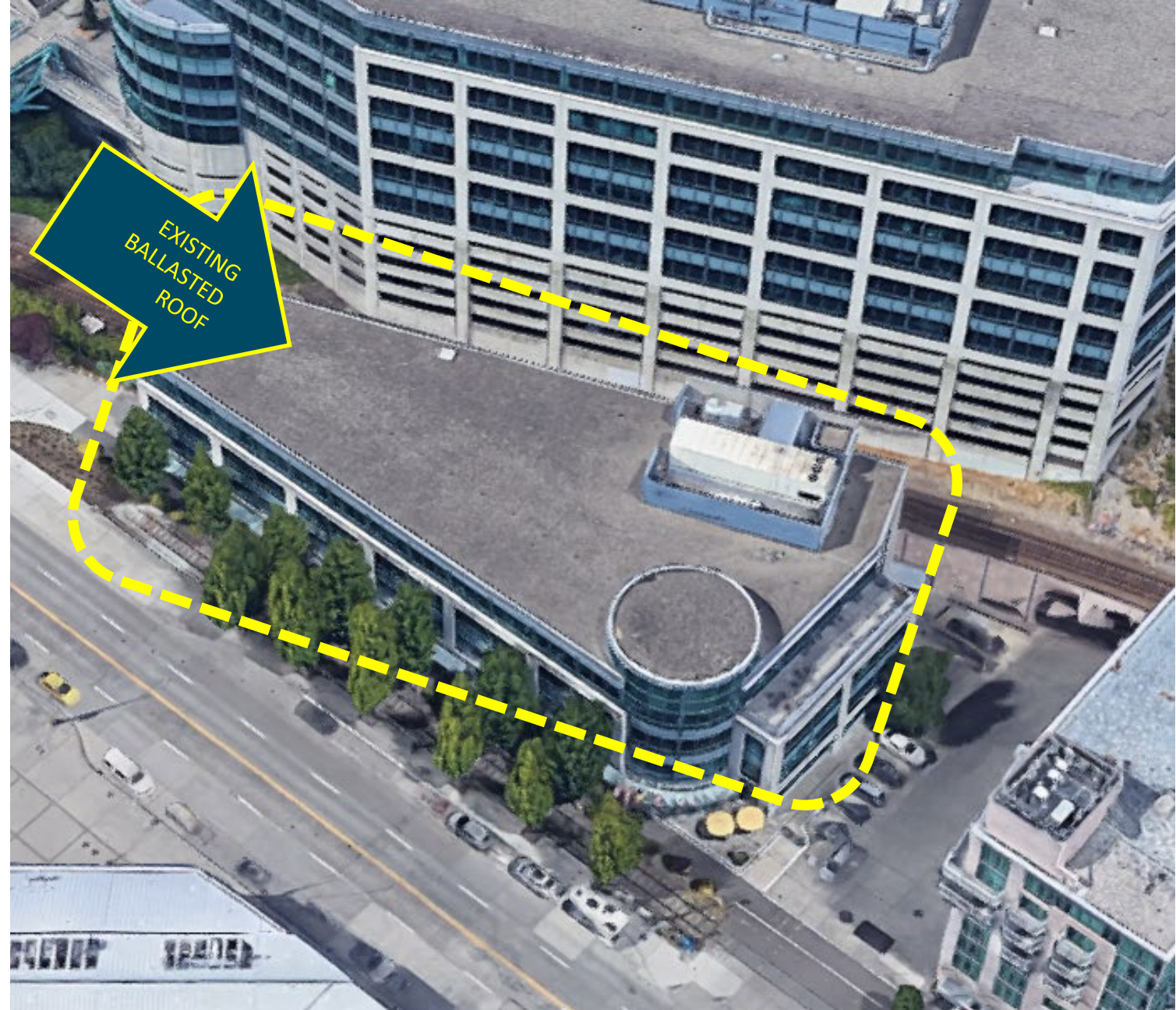
# World Trade Center West and Vicinity

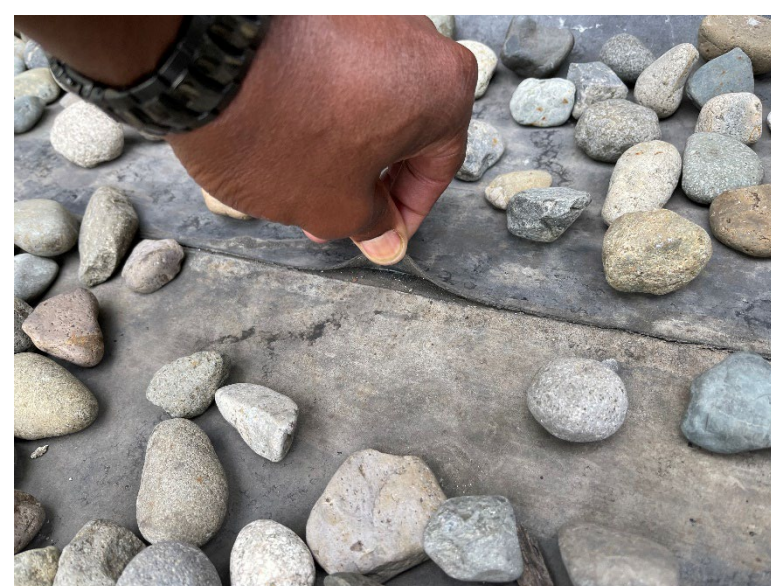
# Background

- 69,507 sf 4 story multi-tenant office building. Ballasted 17,000sf Roof system at the end of service life
- Tenants: World Trade Center Club, Café Opla, Columbia Hospitality, World Affairs Council and Others

# Approach

- A Sustainable Evaluation Framework was used
- Balanced Cost with Increased Energy Efficiency
- Installation of a Green Roof Technology
- Overlay existing waterproof membrane, add insulation, and reuse of the existing Gravel Ballast





WTCW Roof Photos of Existing Gravel Ballast and Membrane

# Sustainable Design Strategies Considered

- **In-kind System**

- Inspect insulation and replace existing membrane
- Overlay with new membrane

- **Green Roof**

- Overlay with new membrane
- Install green roof technology
- **PREFERRED ALTERNATIVE**

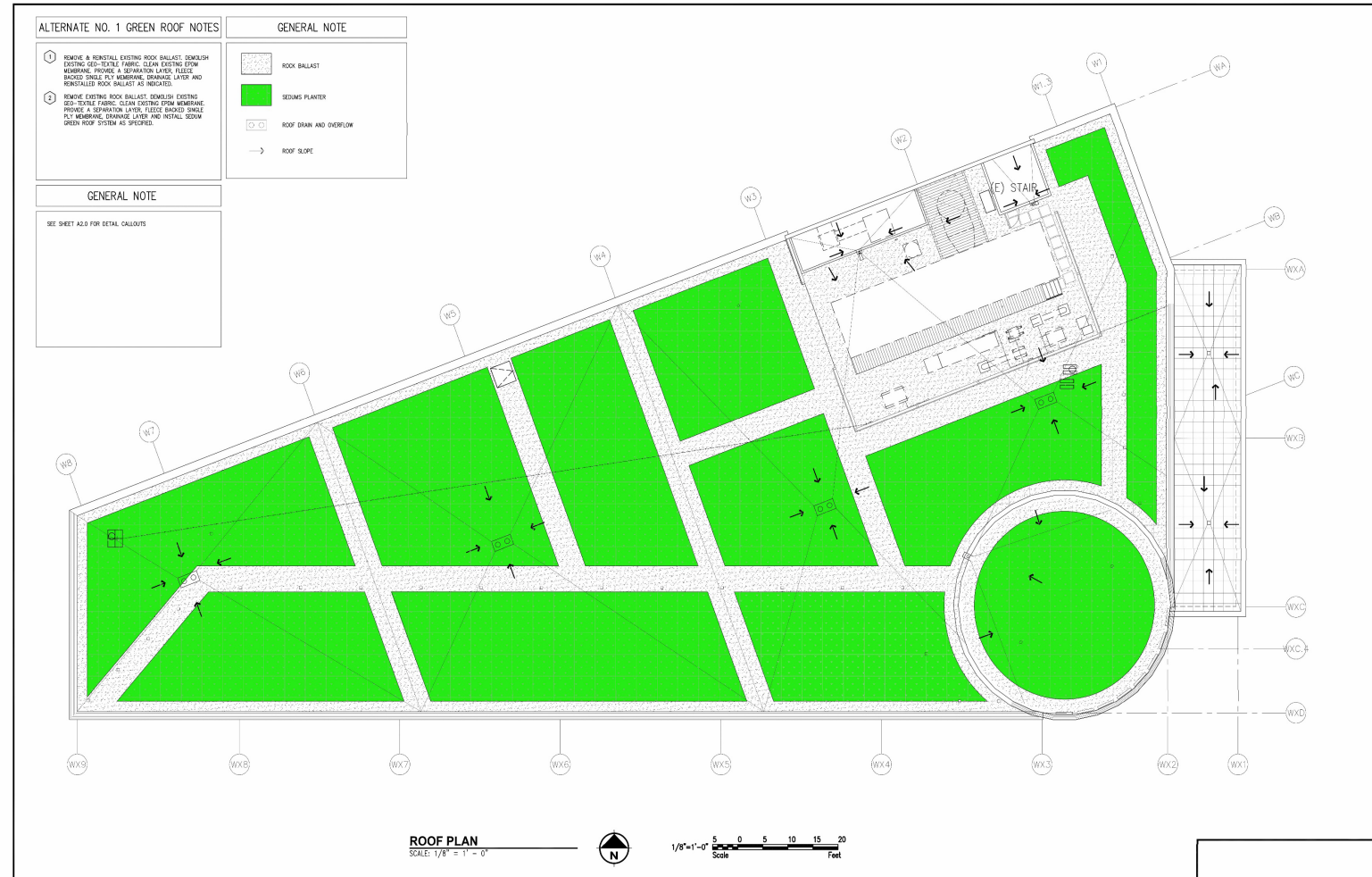
- **Solar**

- Overlay with new membrane
- Install solar
- **NOT CARRIED FORWARD**
  - Glare
  - Poor Positioning
  - Roof Structural Capacity Constraints

# Green Roof Design

## Benefits

- Innovative / Pilot Project
- Heat Island Reduction
- Carbon Sequestration
- Stormwater Retention
- Runoff Temperature Reduction
- Pollinator Habitat
- Rooftop Insulation
- Aesthetics

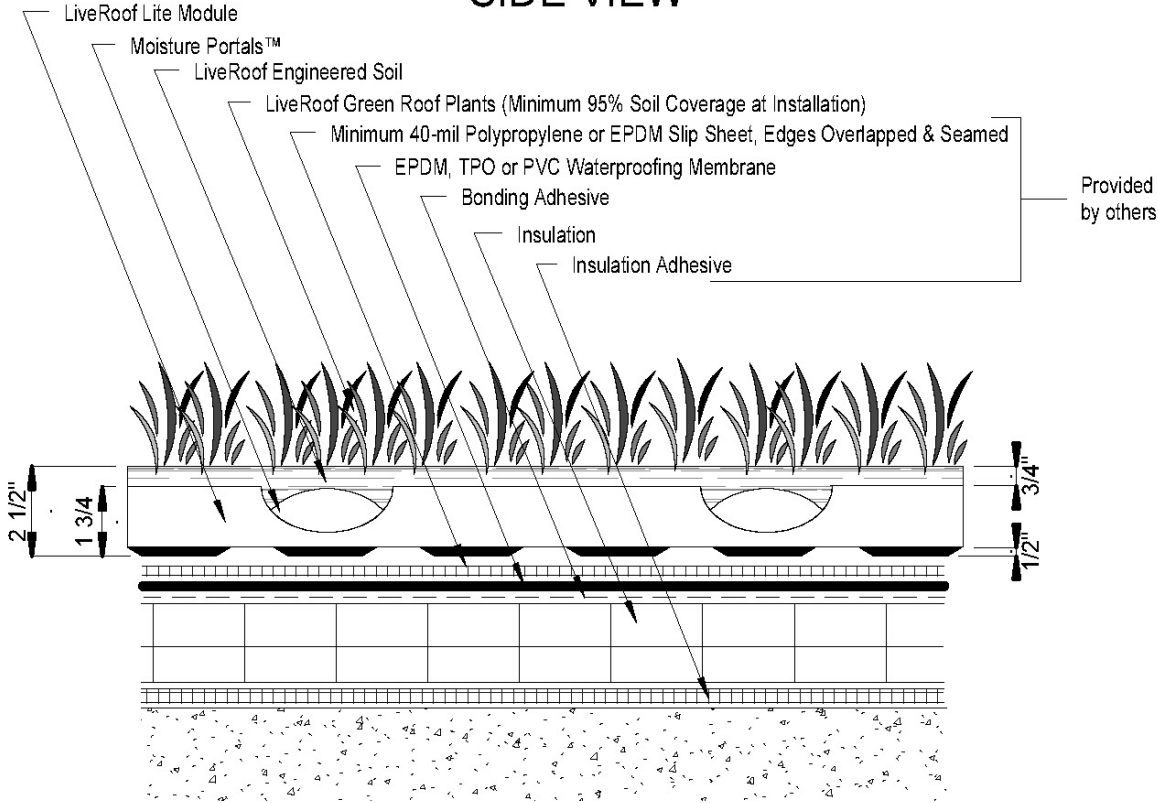


WTCW Roof Top Schematic of Gravel Ballast with a Partial Green Roof Technology



# Green Roof Details

## SIDE VIEW



WTCW Roof Top Schematic of Gravel Ballast with a Partial Green Roof Technology

# Contracting Method and Schedule

- December 2021: Design Authorization
- December 2021 ~ March 2022: Design
- March 22, 2022: Commission Authorization for Construction Funding
- Q2 2022 : Advertise, Award, and Execute Construction Contract
- Q3/Q4 2022 : Construction
- Q1/2023: In-use date

# Questions?

