

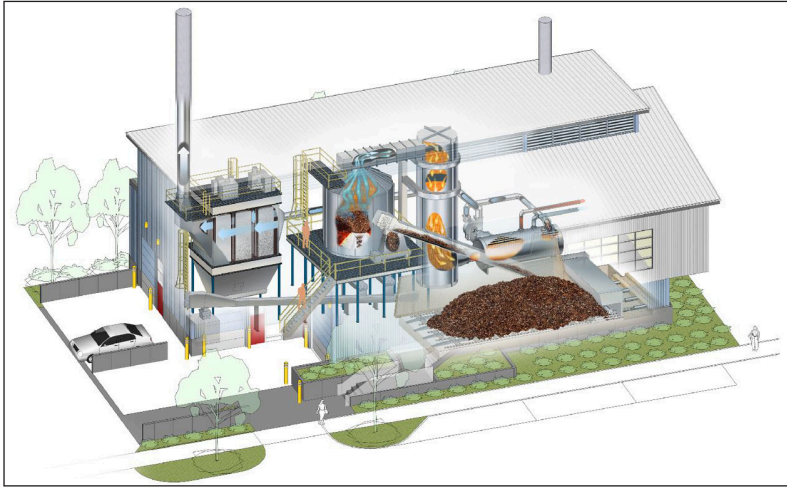
DOCKSIDE GREEN



1300 - 650 West Georgia Street
Vancouver, BC V6B 4N8
T: 604.637.2501 F: 604.637.2506
www.nexterra.ca

DOCKSIDE GREEN BIOMASS GASIFICATION SYSTEM

DOCKSIDE GREEN



■ Project Description

- Customer: Dockside Green Energy LLP
- Location: Victoria, B.C. on the Upper Harbour
- Application: Residential/Commercial heating and hot water
- Nexterra Scope of Work: Turnkey gasification system
- Capacity: 2 MWth/7 MMBtu/hr
- Fuel Source: Locally sourced, clean urban wood residue
- Fuel Moisture Content: 20 - 55%

■ System Highlights

- Canada's first urban gasification facility
- Air Emissions: 50% below BC Ministry of Environment's most stringent requirements for particulate matter (PM)
- Noise: Meets City of Victoria noise bylaw [55 dB(A)]
- Dockside Green is one of 16 founding projects for *Clinton Climate Initiative's Climate Positive Development Program*
- Dockside Green biomass plant is owned and operated through a partnership among Vancity Capital, Terasen Energy Services and Corix Utilities

■ Expected System Performance

Annual Thermal Capacity (NG Equivalent)	22 million kWt-hrs/yr
Annual Savings	£250,000 - £380,000/yr
Avoided CO ₂ Emissions	3,460 tonnes/yr (expected load)
Avoided CO ₂ Emissions (Car Equivalent)	850 cars/yr
Avoided CO ₂ Tax (\$30/tonne)	£65,000/yr
Wood Fuel Trucks Required	60-100 trucks/yr @ 60% capacity
Ash Production (recycled as compost)	220 tonnes/yr @ 60% capacity

"We are delighted with the results of Nexterra's gasification system at Dockside Green and have had overwhelming interest from the general public and media. This is a premier showcase for clean energy technology in a truly sustainable urban development, and we applaud Nexterra on this important achievement."

- Lee Davis, President and CEO of Vancity Capital



ESP & Ash Bin



Oxidizer & Piping



Plant Diagram

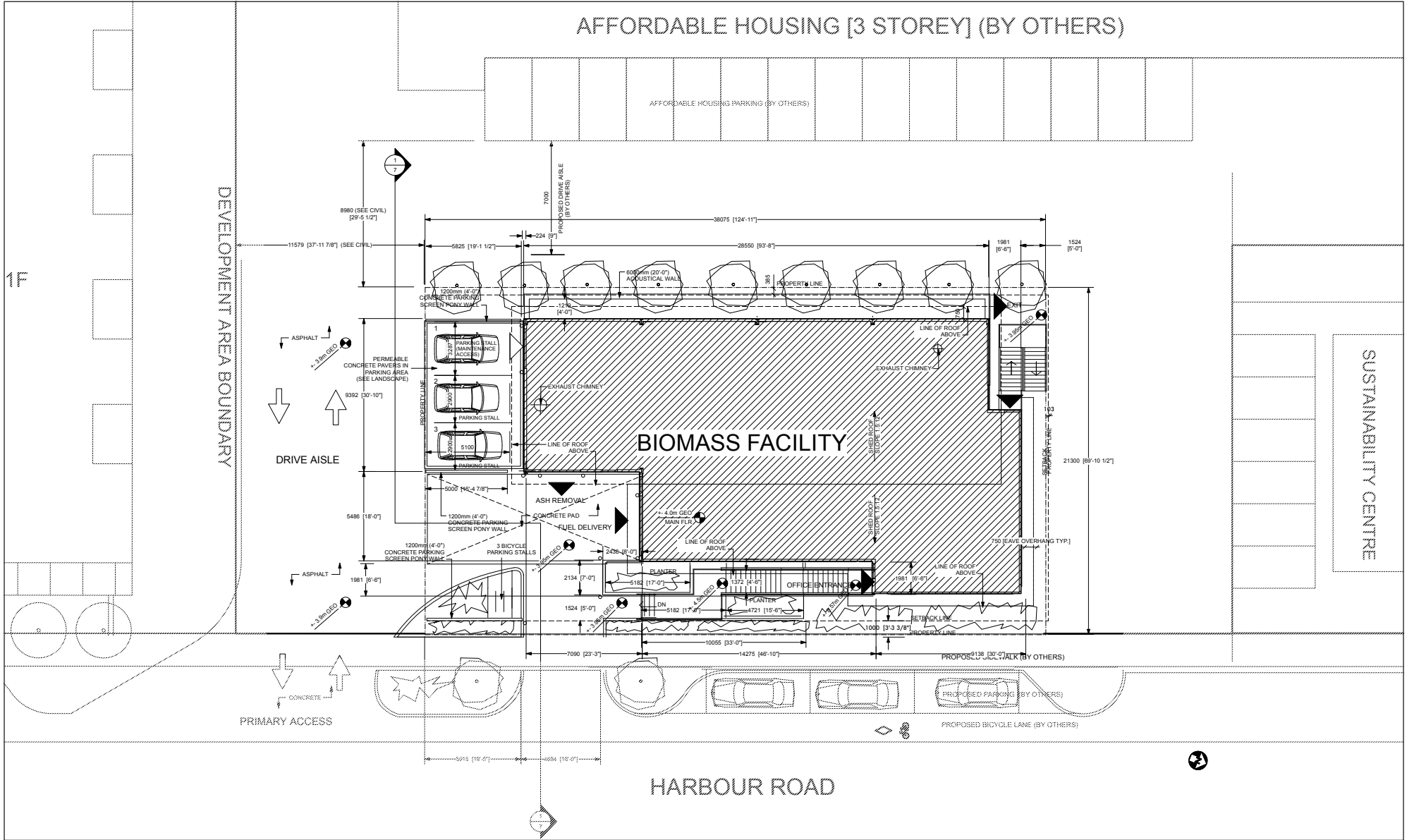


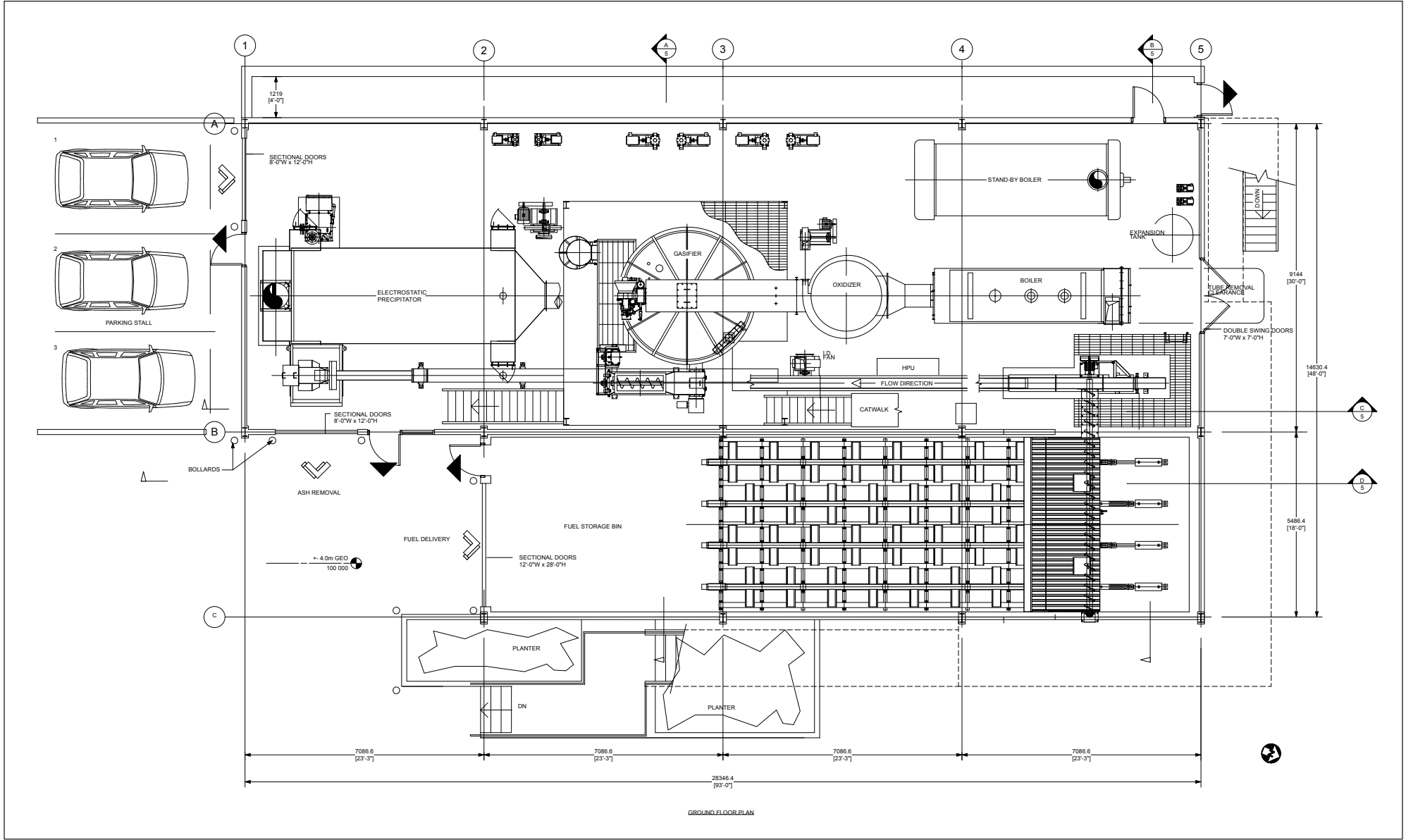
Fuel Storage Bin



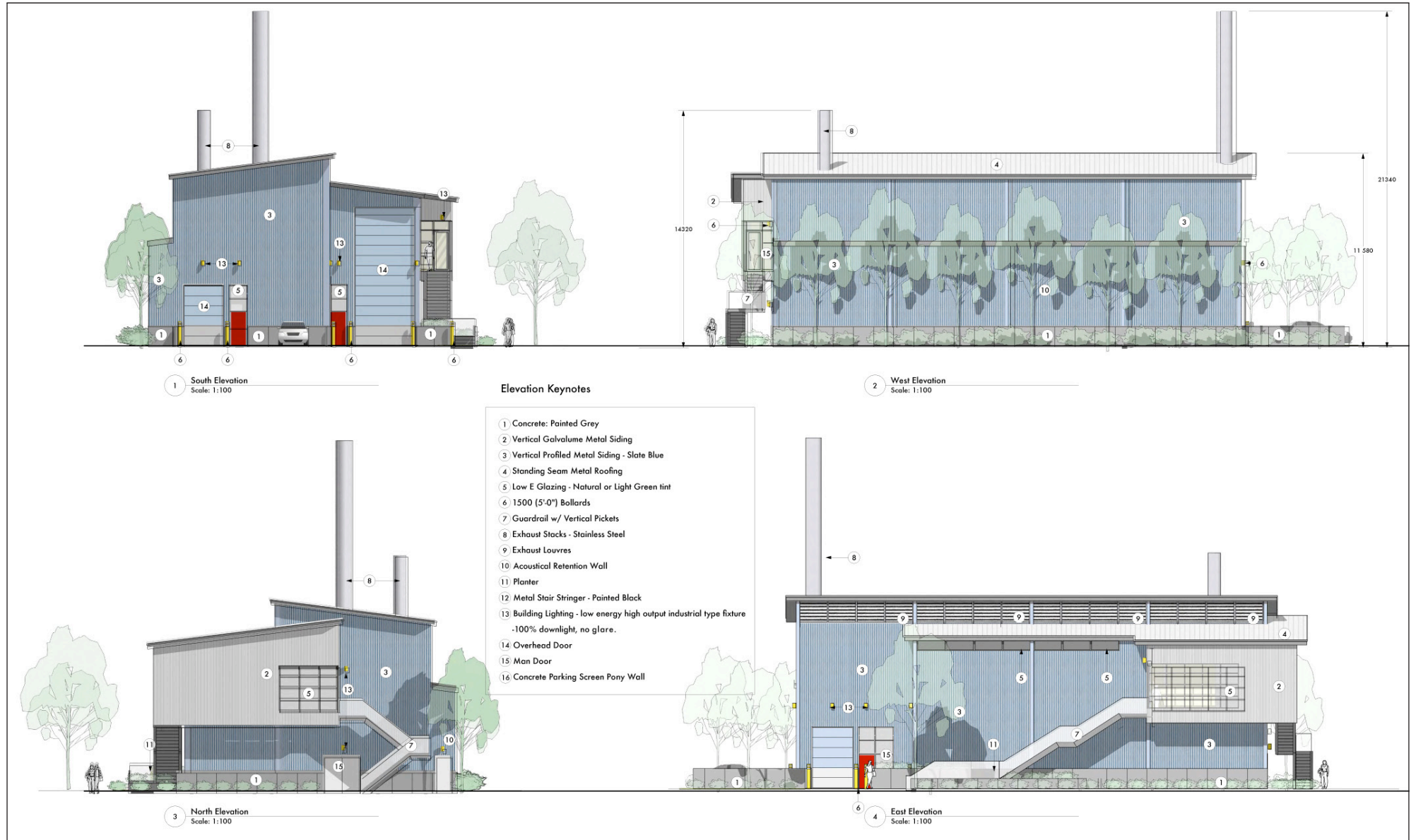
Boiler & Piping







DOCKSIDE GREEN



DOCKSIDE GREEN

About Dockside Green Development Victoria, British Columbia

Dockside Green is a 1.3 million-square-foot residential and commercial development in Victoria's Inner Harbour, demonstrating the latest in sustainable design and best practices including green roofs, on-site wastewater treatment, and a biomass gasification district energy system supplying heating and domestic hot water.

Dockside Green's sustainable features include:

- Highest rating LEED® Platinum
- Renewable heating and hot water
- On-site sewage treatment
- On-site car sharing and mini-transit system
- Energy-efficient light fixtures and EnergyStar rated appliances
- Selected by the Clinton Climate Initiative as one of 16 founding members of the "Climate Positive Development Program"

For more information:

www.docksidegreenenergy.com



Courtesy Dockside Green

Partners:



About Nexterra Systems Corp. Vancouver, British Columbia

Nexterra is a leading developer and supplier of advanced biomass gasification solutions that enable customers to self-generate heat and/or power inside-the-fence at institutional and industrial facilities using low cost biomass fuels. Nexterra's strategic relationships include GE Energy, Johnson Controls and Fortis BC.

Projects include:

- U.S. Department of Veterans Affairs (DVA), Medical Center, Battle Creek, MI
- University of British Columbia, Vancouver BC
- U.S. Department of Energy (DOE), Oak Ridge National Laboratory, Oak Ridge, TN
- University of Northern British Columbia, Prince George, BC
- Dockside Green Development, Victoria, BC
- Kruger Products Limited, New Westminster, BC
- Tolko Industries Ltd., Heffley Creek Division, Kamloops, BC
- Nexterra Product Development Centre (PDC), Kamloops, BC

For more information:

www.nexterra.ca



nexterra

1300 - 650 West Georgia Street
Vancouver, BC V6B 4N8
T: 604.637.2501 F: 604.637.2506
www.nexterra.ca

DOCKSIDE GREEN BIOMASS GASIFICATION SYSTEM