То:	Gary Noble	From:	Stefan Schulson, Architect AIBC
	City of Nanaimo Planning Department		Victoria, BC
File:	144316181	Date:	March 26, 2018

### Reference: NRGH – Thermal Energy Centre Design Rationale

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The Thermal Energy Centre (TEC) is a new proposed building for the Nanaimo Regional General Hospital (NRGH) campus; the TEC will house the new boiler infrastructure for the hospital, replacing the existing boilers that are currently located in the main hospital building.

The TEC is sited at the southwest corner of the NRGH site, adjacent to the Water Supply Building (WSB) and near the entrance to the existing Rehabilitation Building. This location is proximal to the hospital's other service buildings, further consolidating the hospital service infrastructure into a defined district within the overall campus.

The TEC building is conceived as two distinct blocks: a larger 9 meter high mass that fronts onto Boundary Avenue and houses the boilers and other machinery; and a smaller 5.5 meter high annex that faces back to the main hospital block and encapsulates the administrative functions of the building. The architecture of the larger mass is a continuation of the theme established by the WSB, incorporating the brown brick that is thematic of the entire hospital facility, as well as the glazed curtain wall facing out to Boundary Avenue. The brown brick flanks the north and south walls of the boiler room and is capped by a band of vertically-oriented insulated metal panel and perforated metal screening at the tops of the glazing. The mass of the north and south walls are also broken up by tall vertical strips of glazing, as well as the inclusion of a modular trellis system which will serve as the substrate for the growth of climbing plants.

Whereas the inner functions of the WSB are hidden behind opaque glazing, the TEC will offer a clear view of its inner workings to the street; the curtain wall system facing Boundary Avenue will utilize clear glazing and capless mullions to showcase the machinery at work. Vertical strips of acoustic vents punctuate the curtain wall system, adding verticality to an otherwise horizontal mass; at the upper portion of the glazing perforated metal screening will create an interesting effect as it disperses the interior light escaping the boiler room, while also offering some diffusion of sunlight entering the space. The base of the east and west walls of the larger mass will be clad in black corrugated metal panels, a traditional west coast industrial material.

The annex portion of the TEC materially differentiates itself from the larger boiler house through the use of an elongated charcoal brick that is visually detached from the larger block by strips of vertical glazing. The main entrance to the building is clearly marked though the introduction of red metal panels which clad the entry canopy. The mechanical equipment that is located on the roof of the annex will be screened by the same perforated metal material that is used at the top of the curtain wall glazing.

The TEC building is set back 6.0 meters from the property line along Boundary Avenue; this setback strip will be landscaped with new trees, native grasses and boulders to create a natural buffer zone between the building and the street and enhance the overall relationship between the hospital campus and the adjoining neighbourhood. The area between the TEC and the existing Rehabilitation Building will be seeded with grass and planted with a few select trees to create a communal intermediary space between the hospital and the rest of the campus service area.



Men

Design with community in mind

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March 26, 2018 Gary Noble Page 2 of 2

Reference: NRGH – Thermal Energy Centre Design Rationale

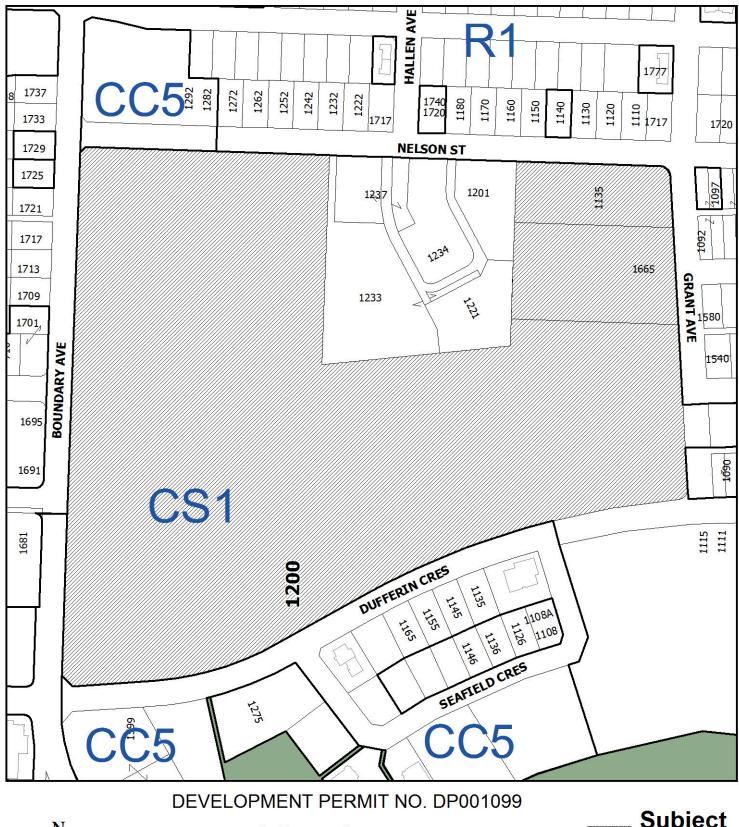
### STANTEC ARCHITECTURE LTD.

Stefan Schulson, M.Arch, Architect AIBC Architect

Phone: 250.389.2509 Cell: 250.217.2686 stefan.schulson@stantec.com

Attachment: Attachment

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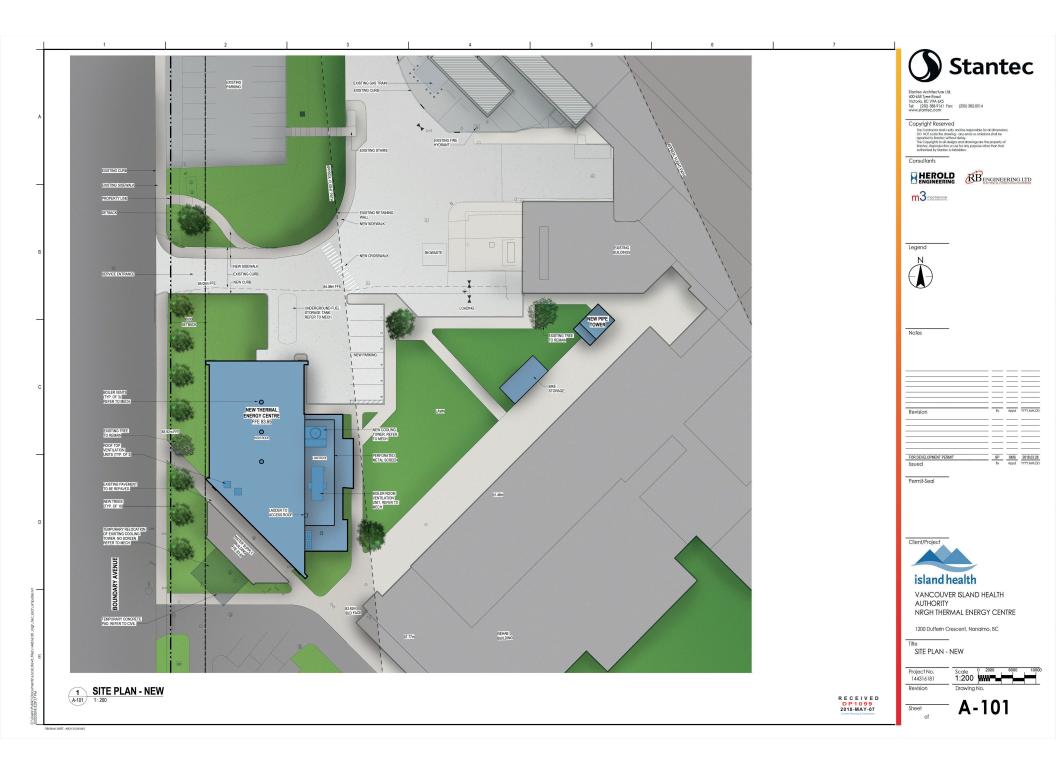


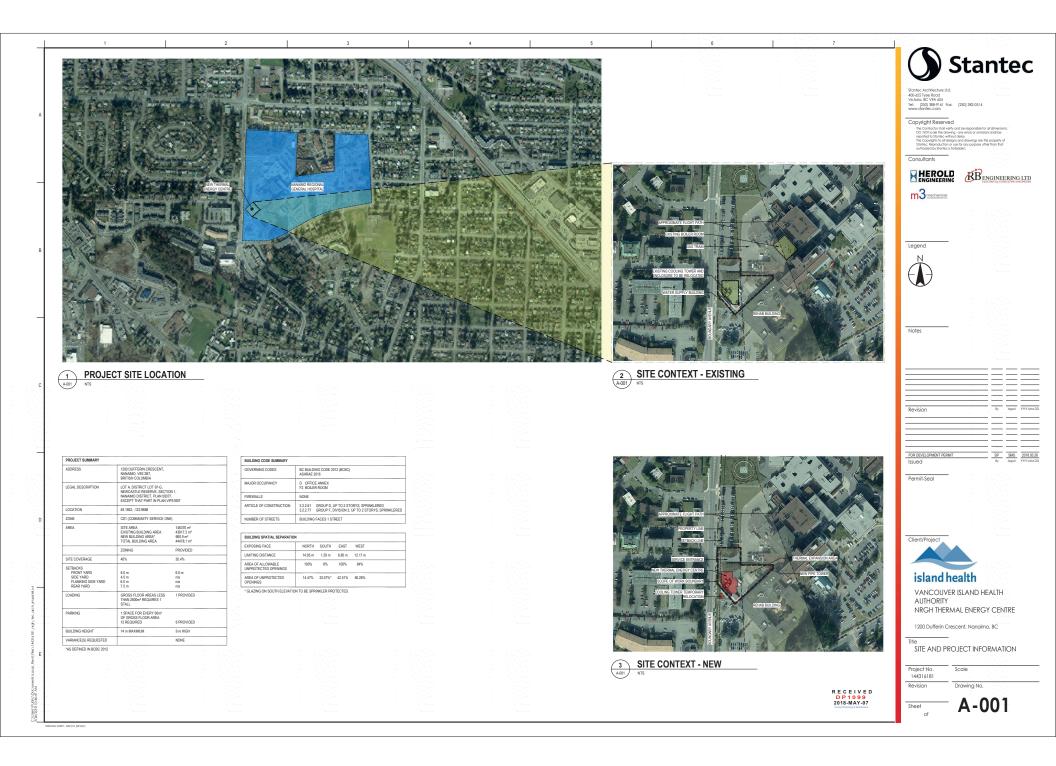
# LOCATION PLAN

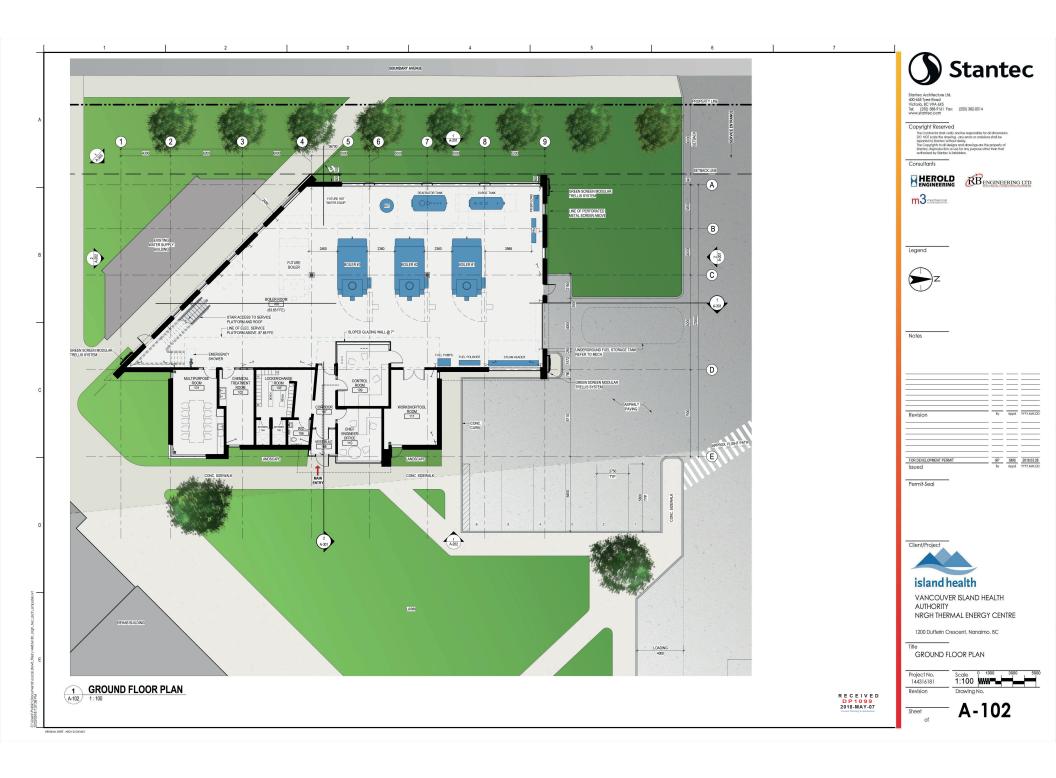
Subject Property

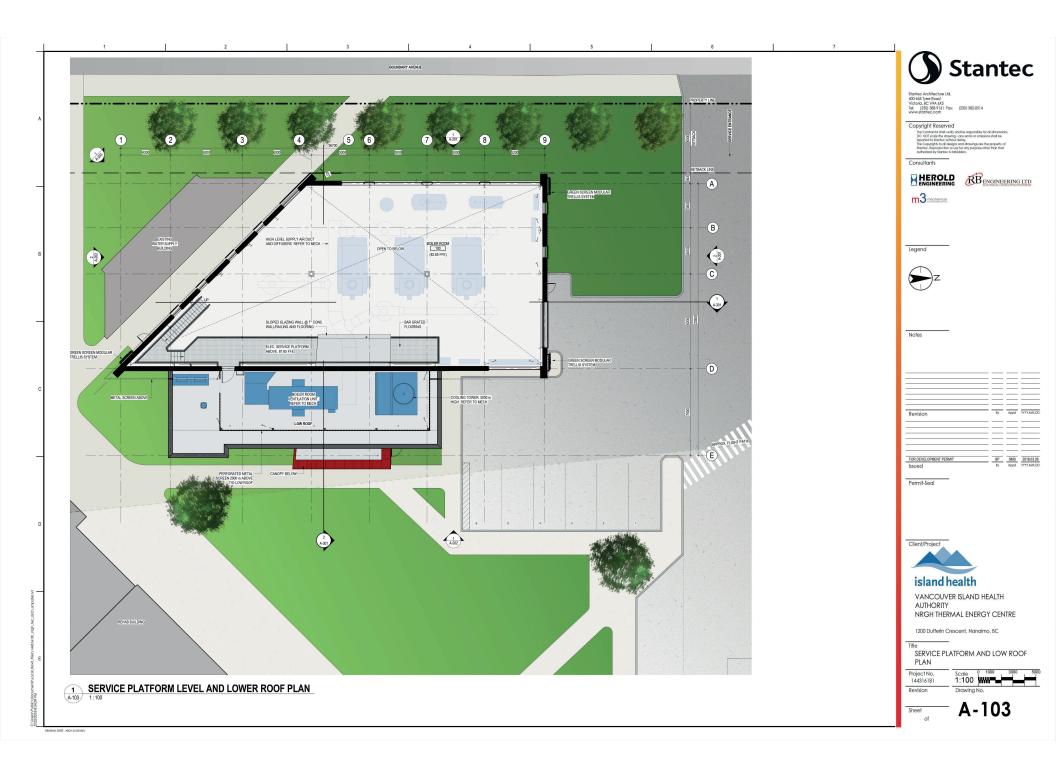
Civic: 1200 Dufferin Crescent Lot A, District Lot 97-G, Newcastle Reserve, Section 1, Nanaimo District, Plan 50077, Except that Part in Plan VIP51807

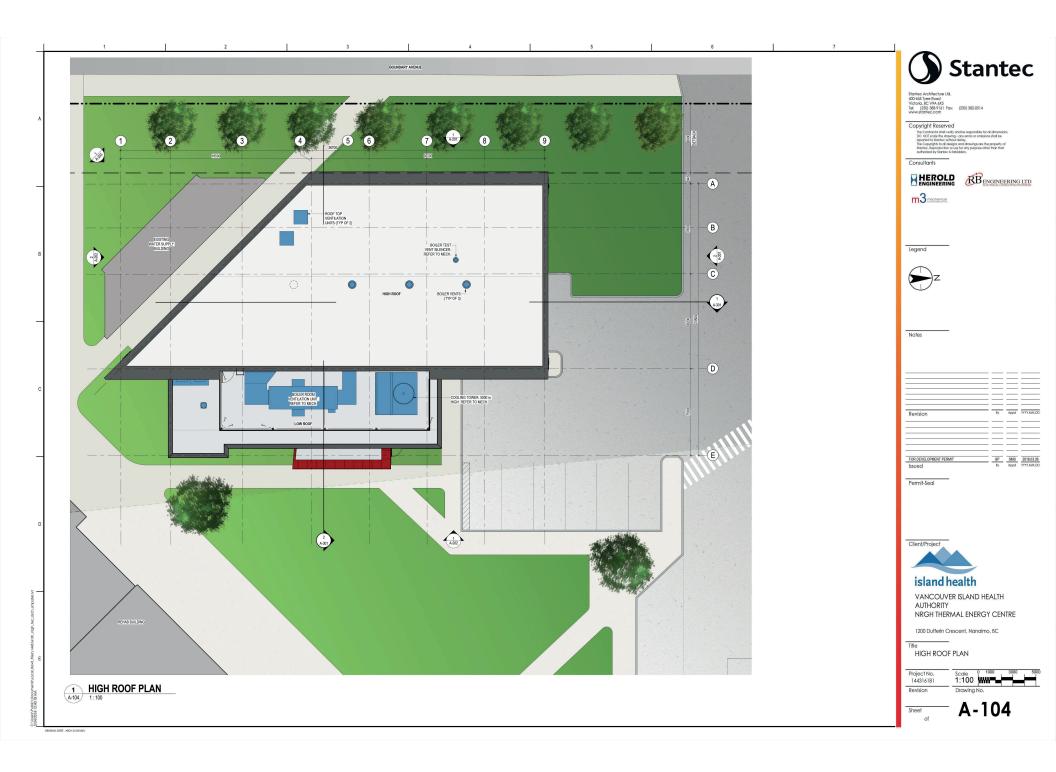


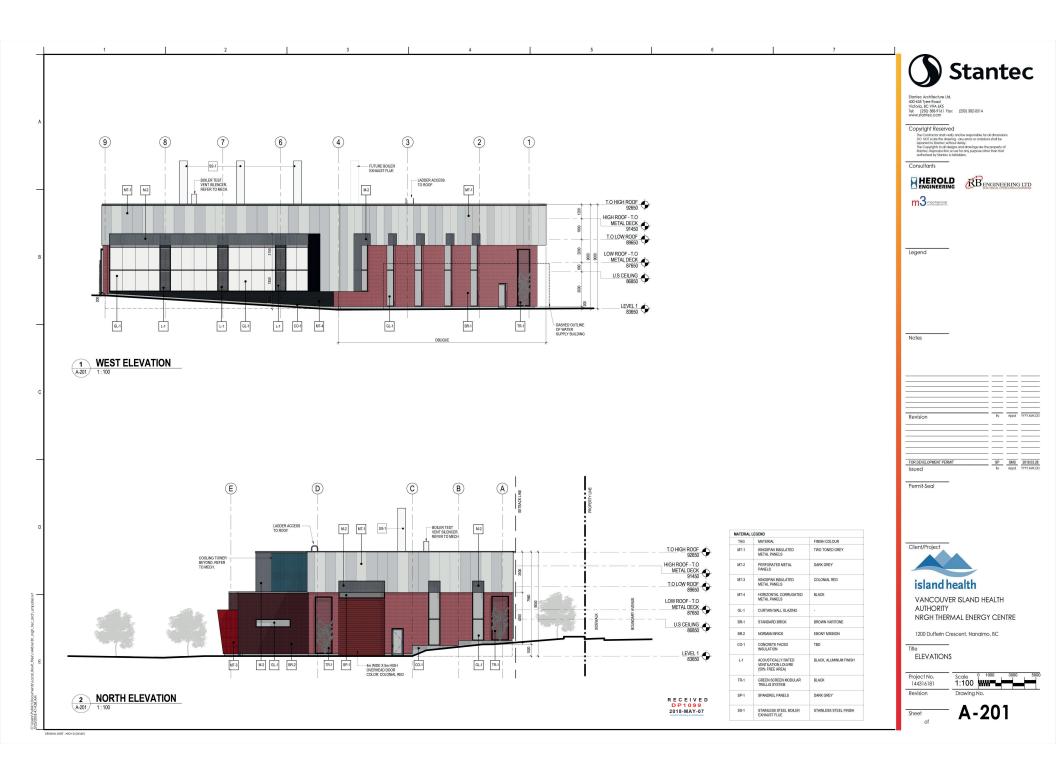




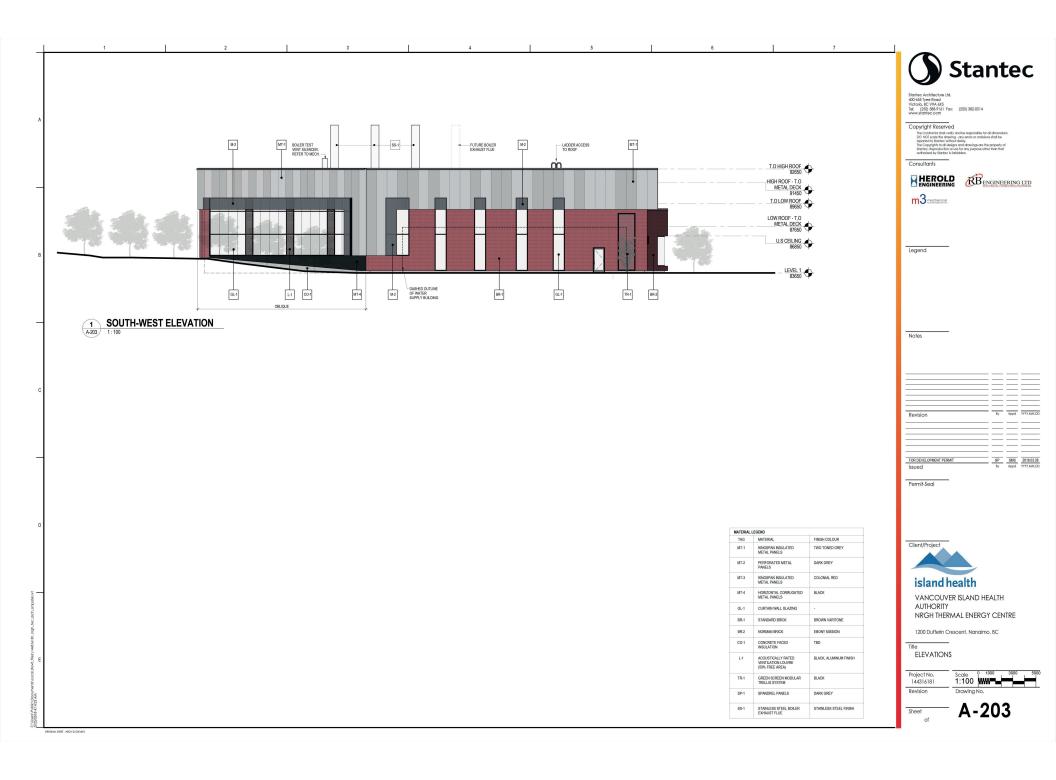












## MATERIAL BOARD

#### WALLS Basis of Design: BC Brick Supplies Ltd.

BROWN VARITONE | Standard 7.5" long x 2.5" tall x 3.5" deep





#### WALLS Basis of Design: Galvalume Corrugated Metal Panels

BLACK | Horizontal Panels



#### WALLS Basis of Design: Kingspan Insulated Metal Panels

LIGHT GREY

DARK GREY







COLONIAL RED | Entrance Canopy

WALLS Basis of Design: Anodized Aluminum Curtain Wall Spandrel Panels DARK GREY







#### WALLS Basis of Design: Anodized Aluminum Mechanical Louvre

BLACK | Acoustically rated Ventilation Louvres (50% Free Area)



WALLS Basis of Design: Anodized Aluminum Curtain Wall Mullions (Capless)

BLACK WITH CLEAR GLAZING





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FOR DEVELOPMENT PERMIT

NRGH THERMAL ENERGY CENTRE | 144316181 | VANCOUVER ISLAND HEALTH AUTHORITY | March 2018

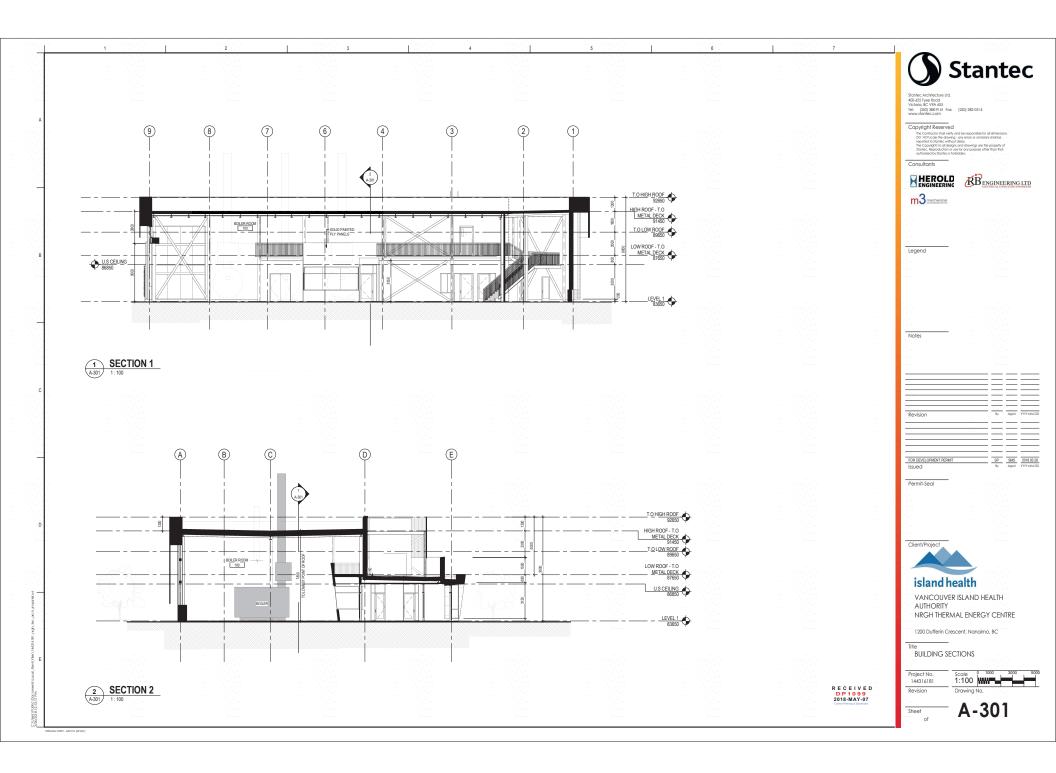
















EAST APPROACH TO PROJECT SITE FROM BOUNDARY AVENUE.



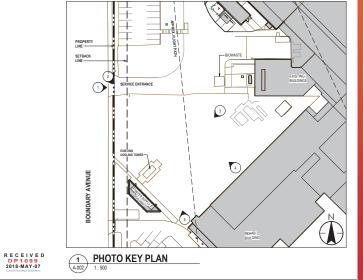
3 SOUTH-WEST VIEW OF PROJECT SITE, LOOKING TOWARD THE EXISTING WATER SUPPLY BUILDING.



4 SOUTH-WEST VIEW OF PROJECT SITE FROM REHAB BUILDING FACING BOUNDARY AVENUE



(5) NORTH-WEST VIEW OF PROJECT SITE FROM BETWEEN THE WATER SUPPLY BUILDING AND REHAB BUILDING LOOKING TOWARD BOUNDARY AVENUE.



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FOR DEVELOPMENT PERMIT	SP	SMS	2018.03
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Consultants 

m3 mechanical

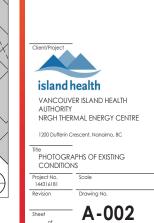
Legend

Notes

Permit-Seal

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of

## Aerial Photo



DEVELOPMENT PERMIT NO. DP001099

