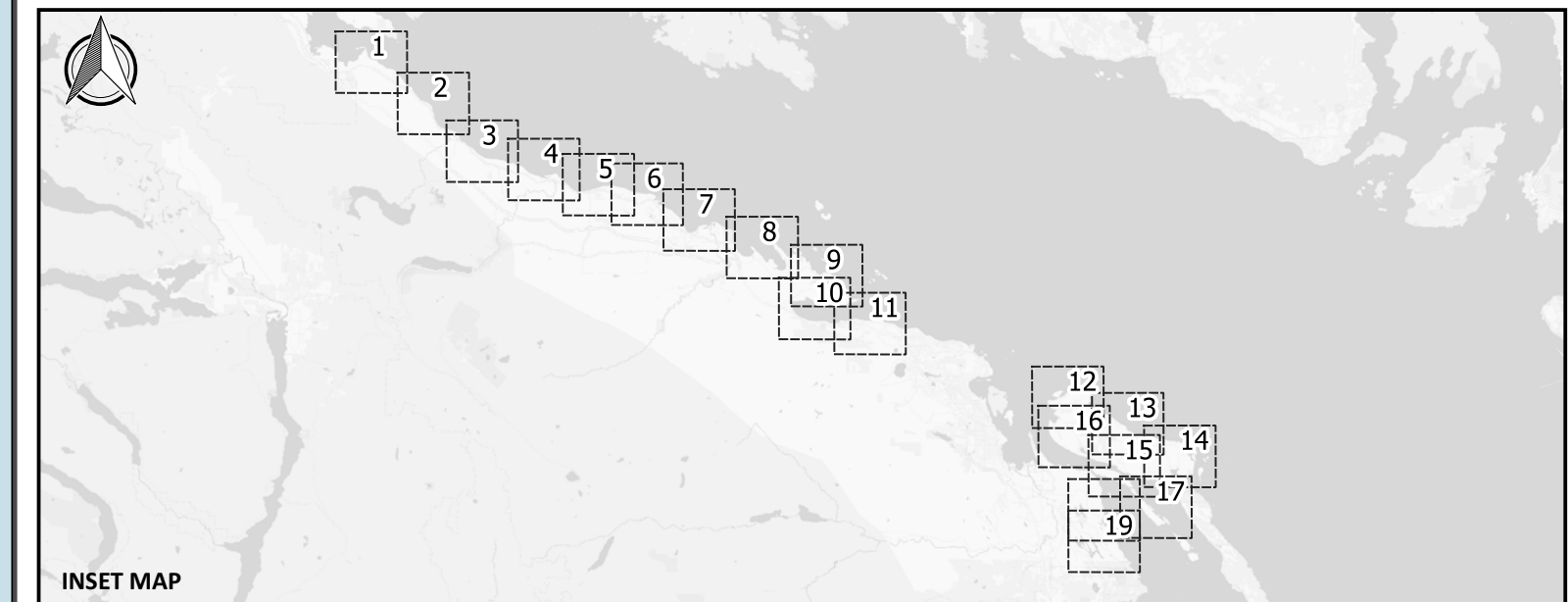




ELECTORAL AREA H (1 OF 3)
REGULATORY COASTAL FLOODPLAIN MAP
0.5% AEP & 1 m RSLR plus 0.6 m freeboard
 Map 1 of 19

- Legend**
- RDN Electoral Area
 - RDN Village Centres
 - Land Parcels
 - Municipalities
 - First Nation Reserve Lands
 - Building Footprints
 - Open Spaces (Park, Forest, Grasslands)
 - Transects
 - Flood Extent



INSET MAP

- Notes to User:**
1. This map has been developed to support the Regional District of Nanaimo Floodplain Management Bylaw No.1469, 2006.
 2. The methodology used to develop this map is outlined in the Coastal Floodplain Mapping Report (Ebbwater Consulting Inc. and Cascadia Coast Research Ltd, 2021). See the main report for further details on the methodology, results, and limitations.
 3. Maps from this series REPLACE previous mapping from Phase I and II Coastal Floodplain Mapping Report (Cascadia Coast Research Ltd, 2019) for the Regional District of Nanaimo (RDN).
 4. Flood water levels were developed using a 0.5% Annual Exceedance Probability (AEP) flood and 1.0 m Relative Sea Level Rise (RSLR).
 5. The adopted values for sea level rise are based on guidelines from Ausenco Sandwell (2011). These are subject to change and RSLR values may need to be reassessed in future.
 6. A 0.6 m freeboard allowance has been included in water levels in accordance with Ausenco Sandwell (2011).
 7. The Regional District of Nanaimo (RDN) and Ebbwater Consulting Inc. does not represent that flooding will not occur outside of the indicated flood extent and will not exceed the water levels indicated on the map.
 8. Application of the information presented in this map should be done in accordance with relevant policy and regulations by a suitably qualified professional.

- Limitations:**
1. The accuracy of the presented flood extents is limited by available data and modelling approaches. The flood extents are based on 1D cross-shore transects. Please refer to report (Ebbwater Consulting Inc and Cascadia Coast Research Ltd., 2021) for a detailed discussion of limitations.
 2. The accuracy of the floodplain extent is limited by the accuracy of the base mapping data and surveys. The floodplain limits were not established on the ground by legal survey.
 3. This map was produced by Ebbwater Consulting Inc. using generally accepted best practice and guidelines for the Province of British Columbia. However, flooding may still occur outside the defined floodplain boundary, and Ebbwater Consulting Inc. and Cascadia Coast Research Ltd. do not assume any liability by reason of the failure to delineate flood areas on this map.
 4. The presented flood extents are limited to estimates of the effects of a coastal storm flood hazard and they do not include effects of riverine flooding. Flood extents in estuarine areas should be based both on the coastal conditions and river levels.
 5. Base map and parcel layers were provided by different data owners and are subject to differences.

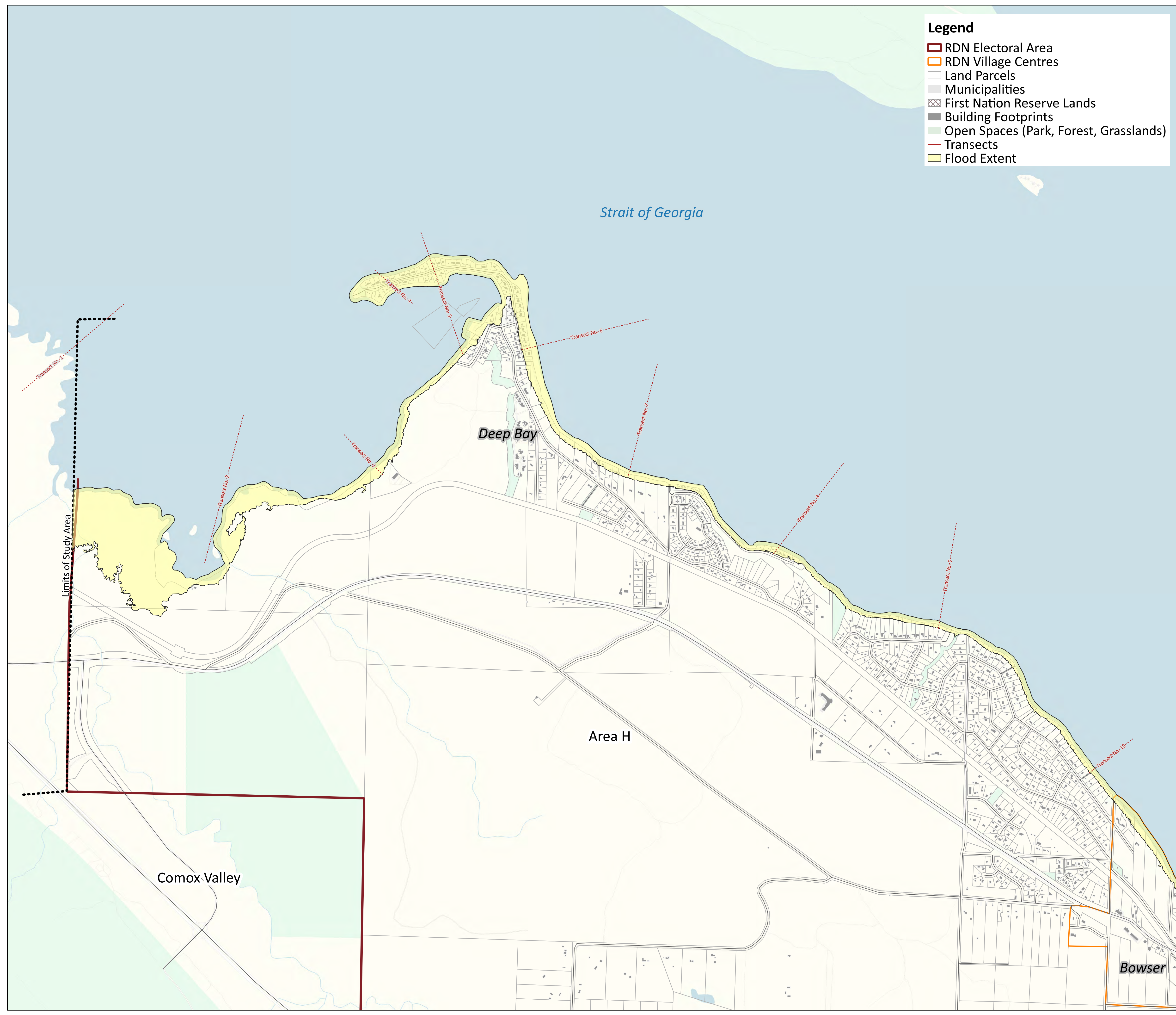
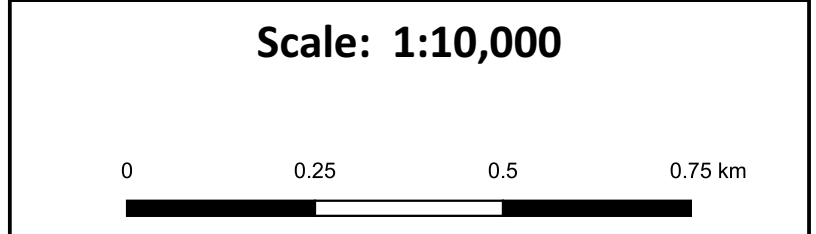
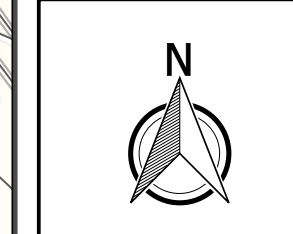
- Data Sources:**
1. Flood Construction Reference Plane (FCRP) values provided by Cascadia Coast Research Ltd.
 2. First Nation Reserve Lands (also known as Indian Reserve Lands) layer was downloaded from DataBC, Province of British Columbia. The other civic boundary layers were provided by the Regional District of Nanaimo.
 3. OSM Humanitarian Data Model and CARTO's Positron, created using derivatives of OpenStreetMap data - openstreetmap.org (© OpenStreetMap contributors; cartography license CC BY-SA).

- References:**
1. Ebbwater Consulting Inc. and Cascadia Coast Research Ltd. (2021). Regional District of Nanaimo Coastal Floodplain Mapping. Prepared for the Regional District of Nanaimo.

Date Created: 25 Apr 2022
 Coordinate System: NAD83, UTM 10N
 Vertical Datum: CGVD 2013
 Paper Size: ANSI D

Prepared By: NS
 Reviewed By: TL
 Checked By: TL

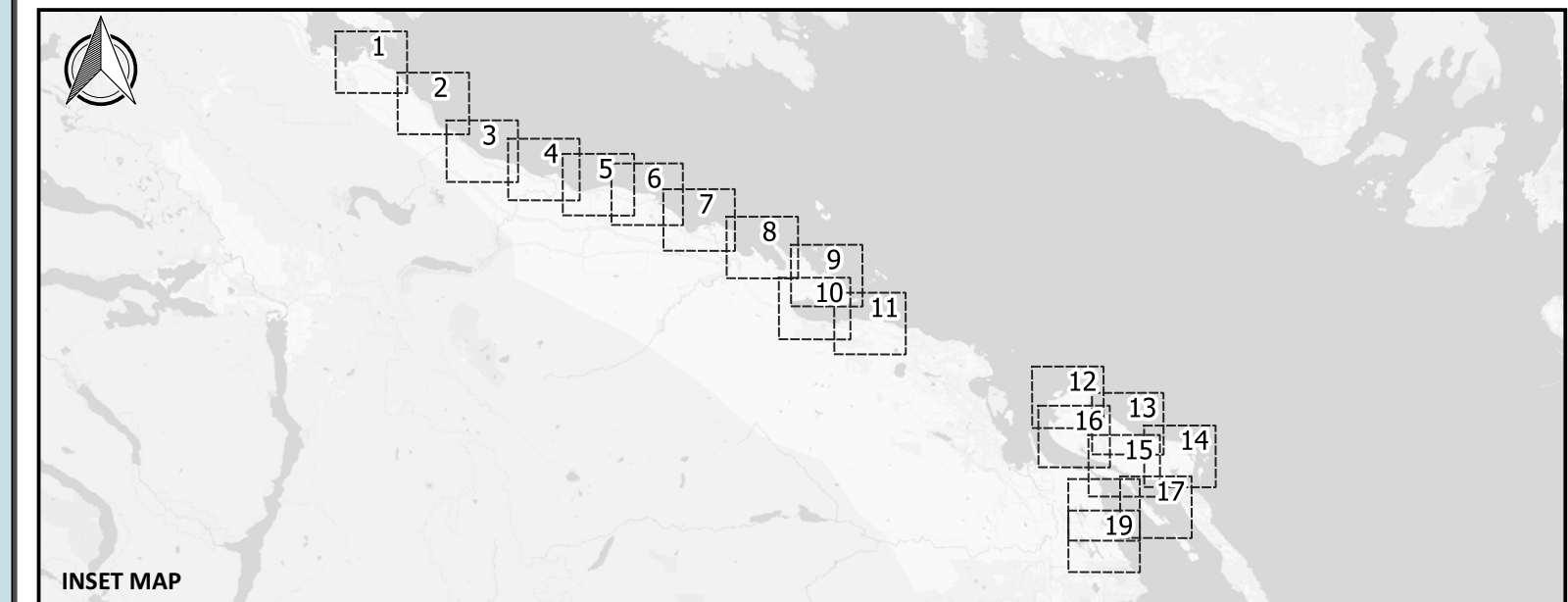
SCHEDULE D





ELECTORAL AREA H (2 OF 3)
REGULATORY COASTAL FLOODPLAIN MAP
0.5% AEP & 1 m RSLR plus 0.6 m freeboard
 Map 2 of 19

- Legend**
- RDN Electoral Area
 - RDN Village Centres
 - Land Parcels
 - Municipalities
 - First Nation Reserve Lands
 - Building Footprints
 - Open Spaces (Park, Forest, Grasslands)
 - Transects
 - Flood Extent



INSET MAP

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 - A 0.6 m freeboard allowance has been included in water levels in accordance with Ausenco Sandwell (2011).
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 - Application of the information presented in this map should be done in accordance with relevant policy and regulations by a suitably qualified professional.

- Limitations:**
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 - Base map and parcel layers were provided by different data owners and are subject to differences.

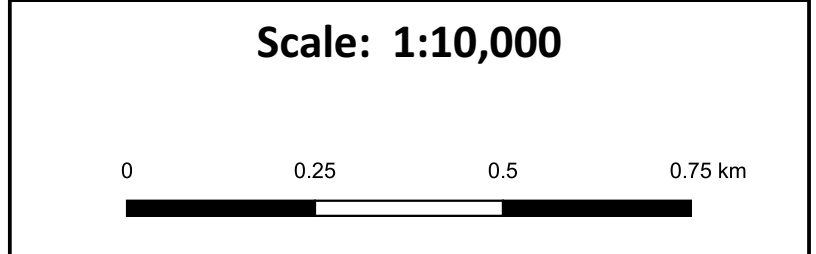
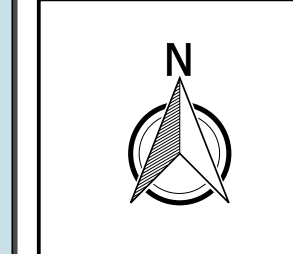
- Data Sources:**
- Flood Construction Reference Plane (FCRP) values provided by Cascadia Coast Research Ltd.
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- References:**
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Date Created: 25 Apr 2022
 Coordinate System: NAD83, UTM 10N
 Vertical Datum: CGVD 2013
 Paper Size: ANSI D

Prepared By: NS
 Reviewed By: TL
 Checked By: TL



SCHEDULE D





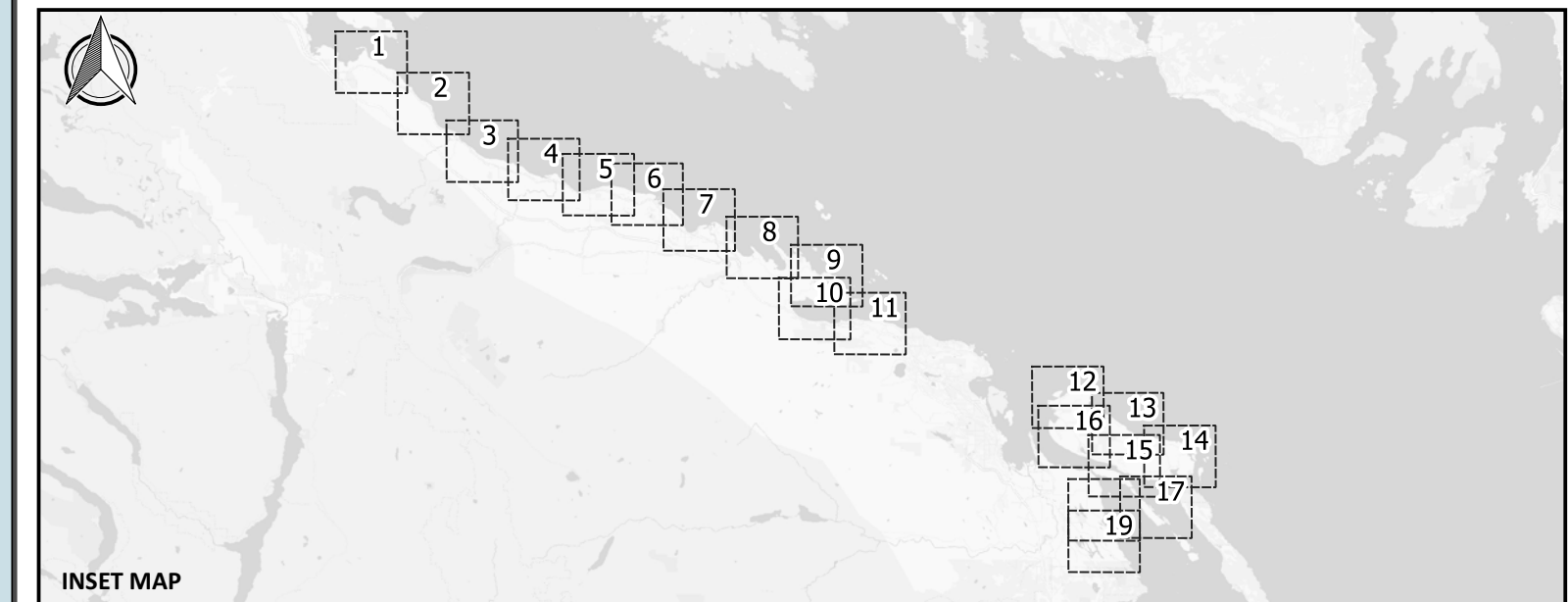
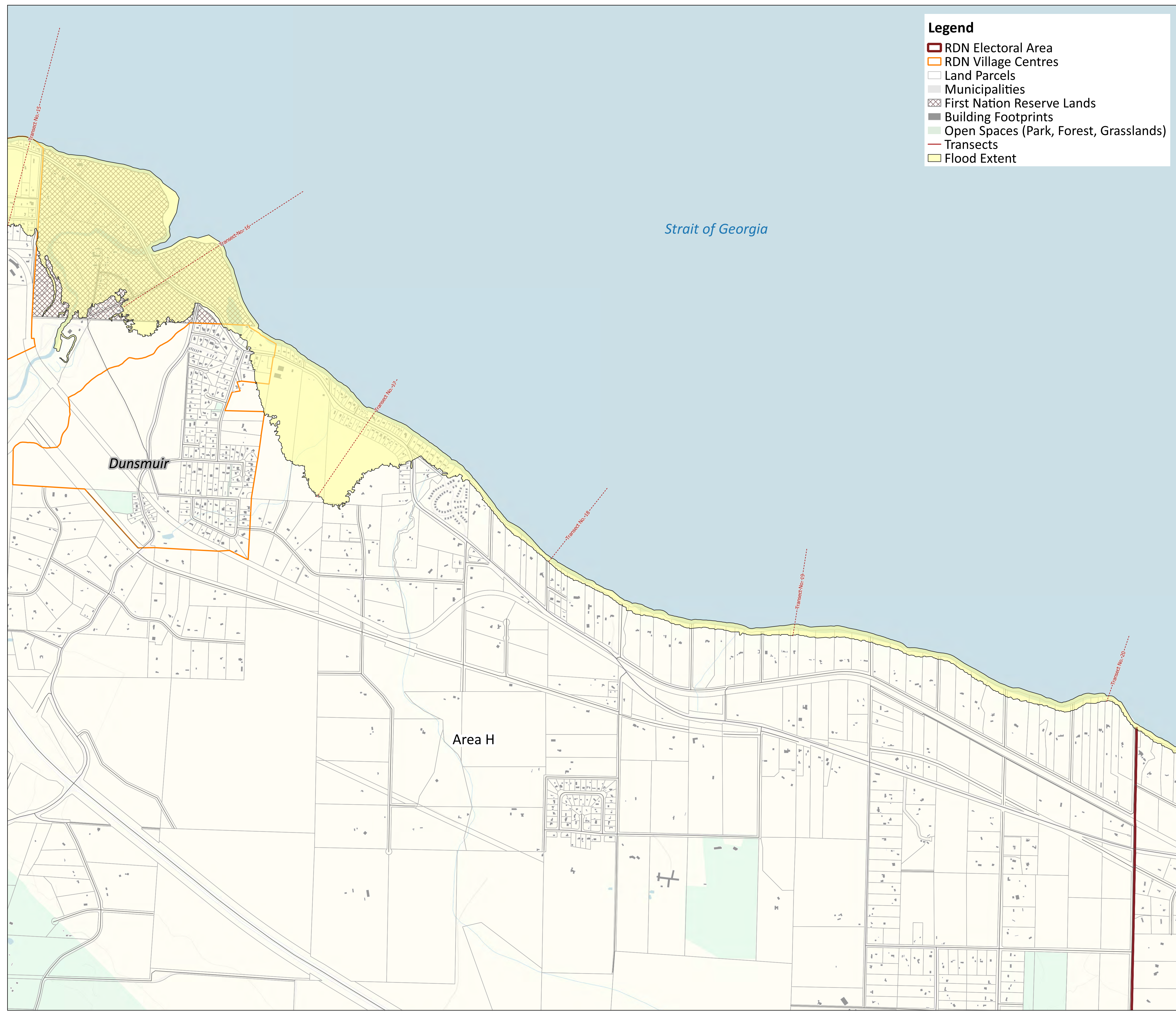
ELECTORAL AREA H (3 OF 3) REGULATORY COASTAL FLOODPLAIN MAP

0.5% AEP & 1 m RSLR plus 0.6 m freeboard

Map 3 of 19

Legend

- RDN Electoral Area
- RDN Village Centres
- Land Parcels
- Municipalities
- First Nation Reserve Lands
- Building Footprints
- Open Spaces (Park, Forest, Grasslands)
- Transects
- Flood Extent



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5. Base map and parcel layers were provided by different data owners and are subject to differences.

Data Sources:

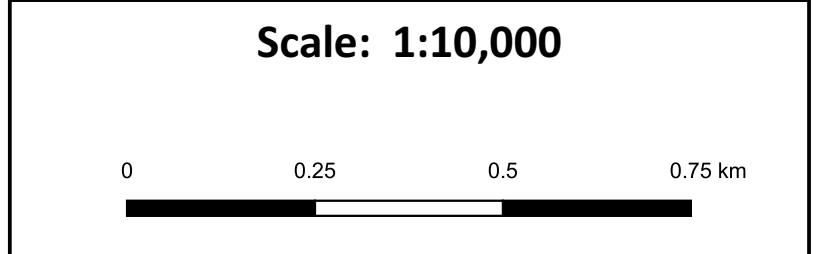
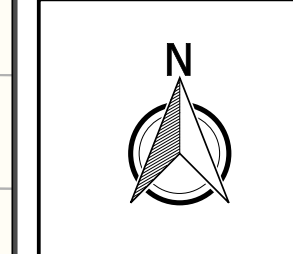
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References:

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Date Created: 25 Apr 2022
 Coordinate System: NAD83, UTM 10N
 Vertical Datum: CGVD 2013
 Paper Size: ANSI D

Prepared By: NS
 Reviewed By: TL
 Checked By: TL



SCHEDULE D



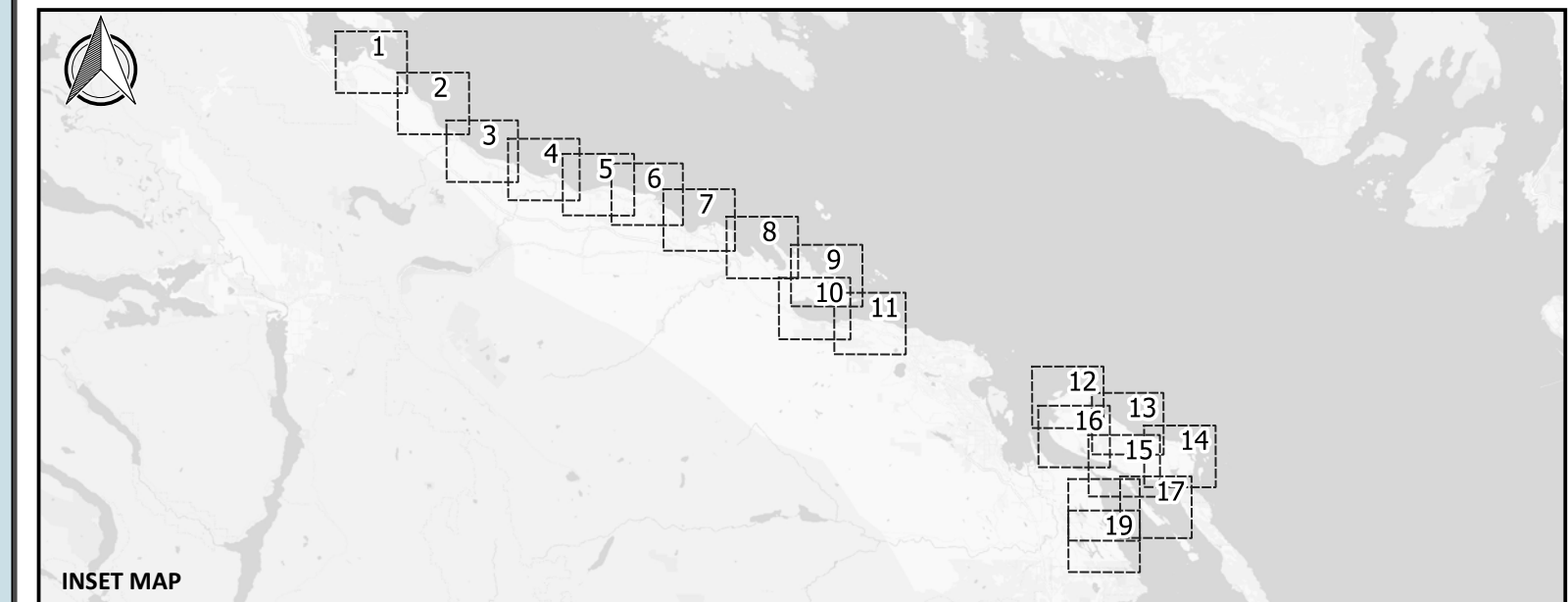


ELECTORAL AREA G (1 OF 2) REGULATORY COASTAL FLOODPLAIN MAP

0.5% AEP & 1 m RSLR plus 0.6 m freeboard

Map 4 of 19

- Legend**
- RDN Electoral Area
 - RDN Village Centres
 - Land Parcels
 - Municipalities
 - First Nation Reserve Lands
 - Building Footprints
 - Open Spaces (Park, Forest, Grasslands)
 - Transects
 - Flood Extent



INSET MAP

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 - The adopted values for sea level rise are based on guidelines from Ausenco Sandwell (2011). These are subject to change and RSLR values may need to be reassessed in future.
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- References:**
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Strait of Georgia

Area H

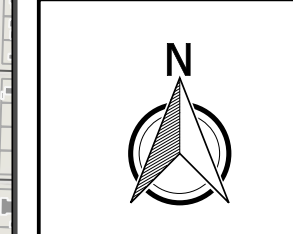
Qualicum Beach (Town)

Little Qualicum River

Date Created: 25 Apr 2022
 Coordinate System: NAD83, UTM 10N
 Vertical Datum: CGVD 2013
 Paper Size: ANSI D

SCHEDULE D

Prepared By: NS
 Reviewed By: TL
 Checked By: TL



Scale: 1:10,000

0 0.25 0.5 0.75 km





CITY OF QUALICUM BEACH REGULATORY COASTAL FLOODPLAIN MAP

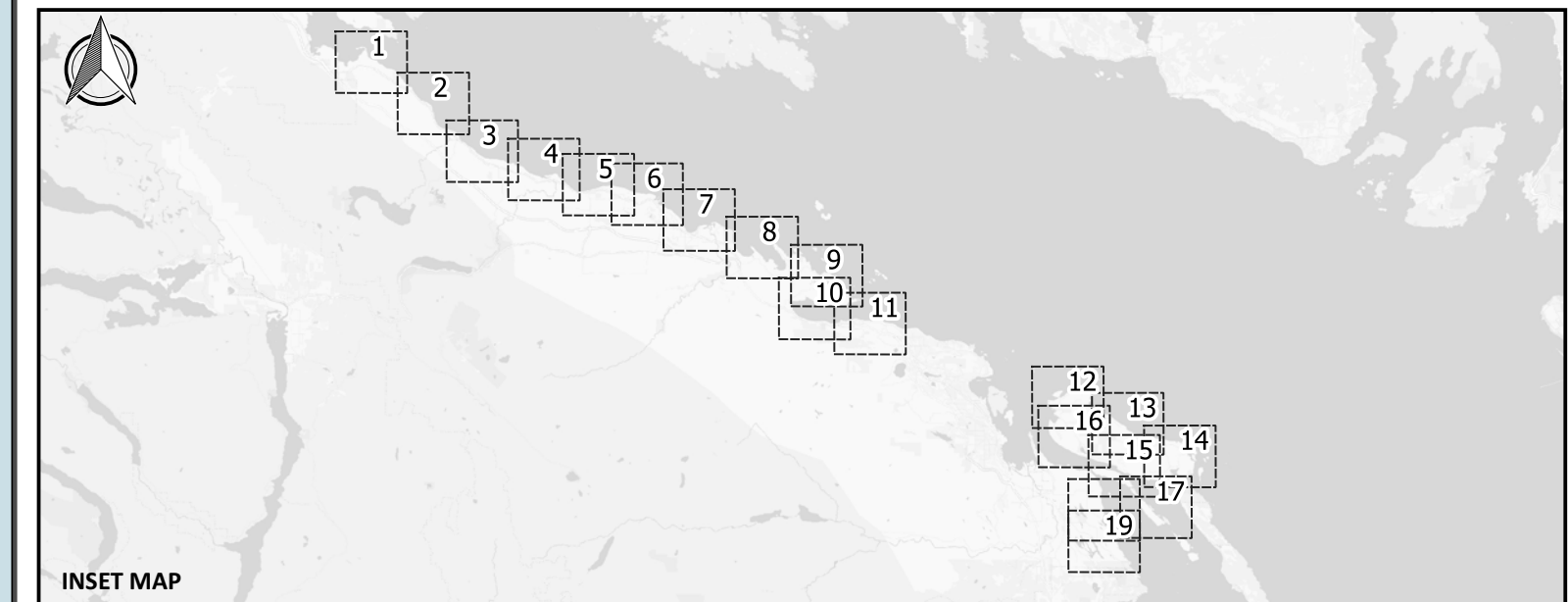
0.5% AEP & 1 m RSLR plus 0.6 m freeboard

Map 5 of 19

Legend

- RDN Electoral Area
- RDN Village Centres
- Land Parcels
- Municipalities
- First Nation Reserve Lands
- Building Footprints
- Open Spaces (Park, Forest, Grasslands)
- Transects
- Flood Extent

Strait of Georgia



INSET MAP

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Limitations:

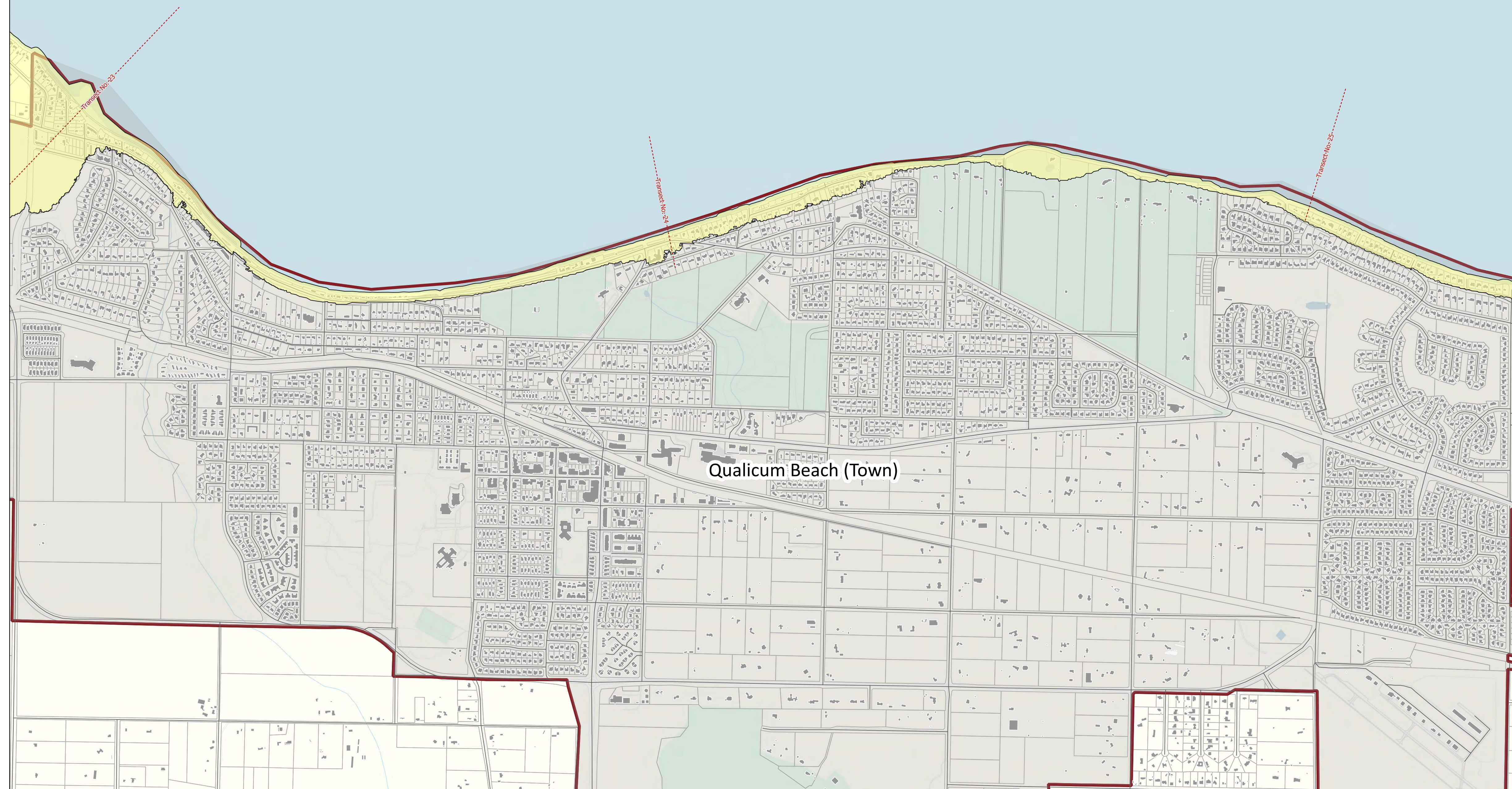
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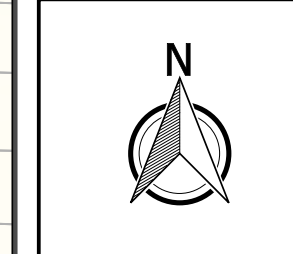
References:

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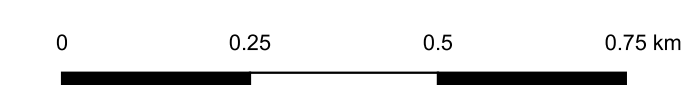


Date Created: 25 Apr 2022
 Coordinate System: NAD83, UTM 10N
 Vertical Datum: CGVD 2013
 Paper Size: ANSI D

Prepared By: NS
 Reviewed By: TL
 Checked By: TL



Scale: 1:10,000

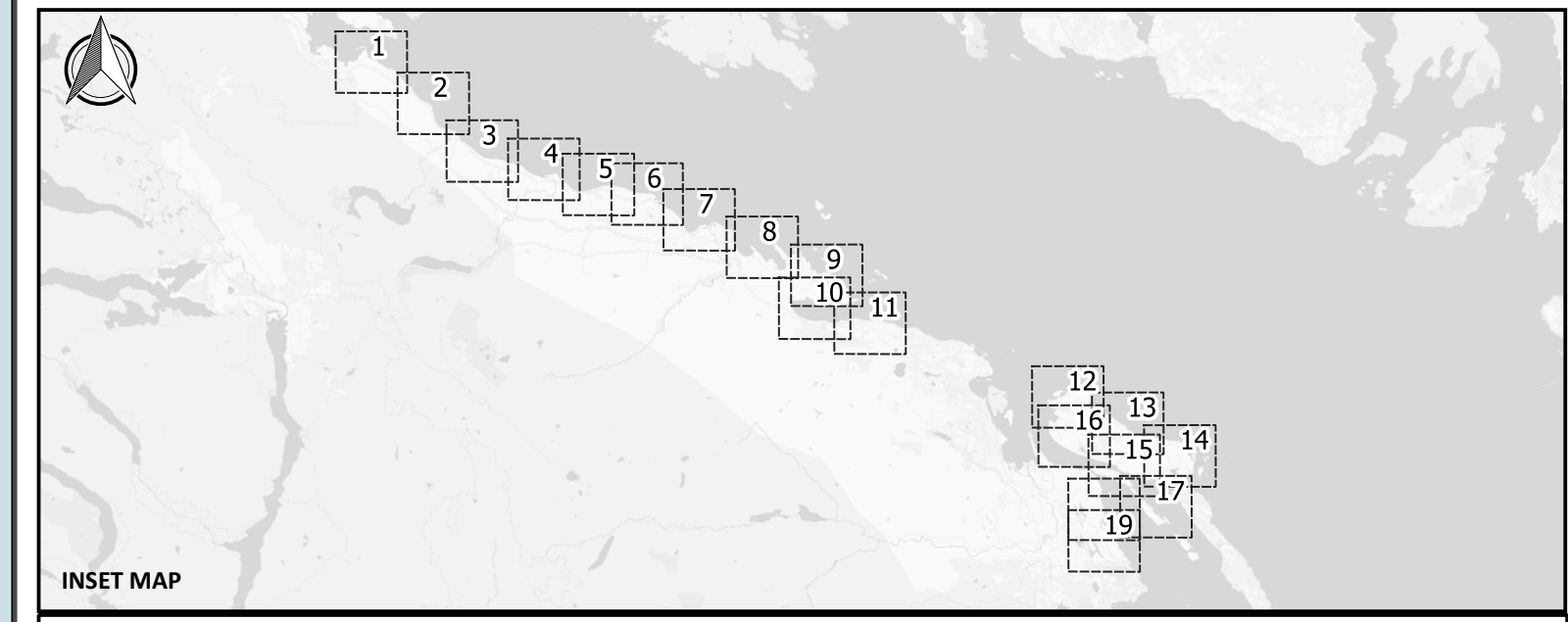


SCHEDULE D





- Legend**
- RDN Electoral Area
 - RDN Village Centres
 - Land Parcels
 - Municipalities
 - First Nation Reserve Lands
 - Building Footprints
 - Open Spaces (Park, Forest, Grasslands)
 - Transects
 - Flood Extent



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References:

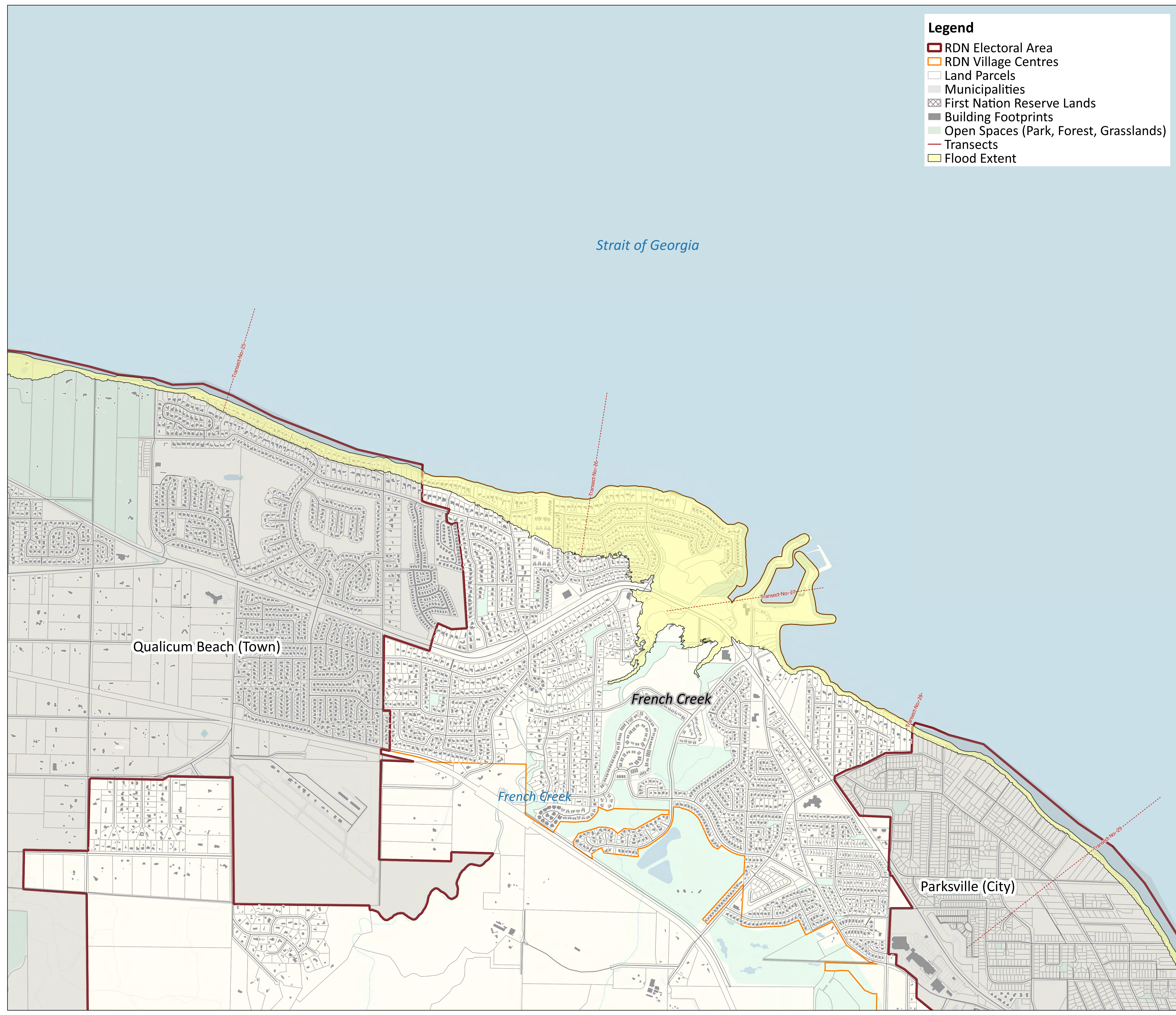
1. Ebbwater Consulting Inc. and Cascadia Coast Research Ltd. (2021). Regional District of Nanaimo Coastal Floodplain Mapping. Prepared for the Regional District of Nanaimo.

Date Created: 25 Apr 2022
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 Paper Size: ANSI D

Prepared By: NS
 Reviewed By: TL
 Checked By: TL

Scale: 1:10,000

SCHEDULE D





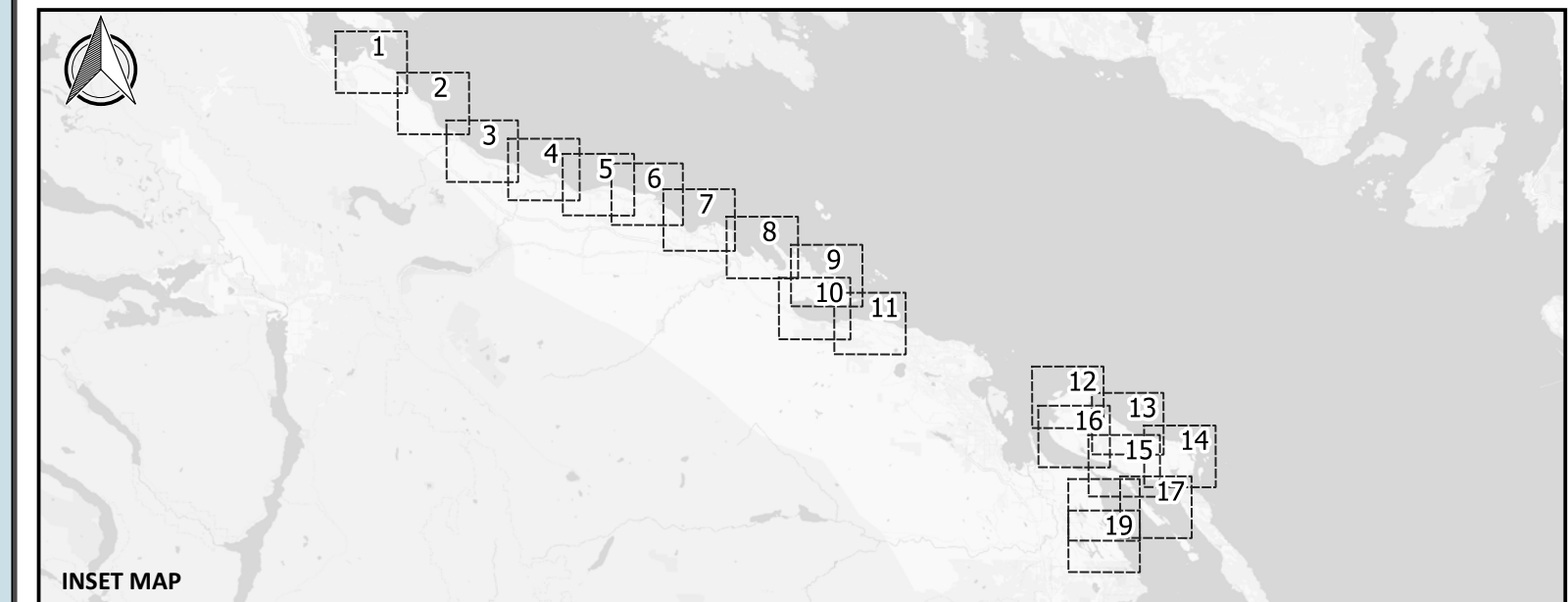
CITY OF PARKVILLE
REGULATORY COASTAL FLOODPLAIN MAP

0.5% AEP & 1 m RSLR plus 0.6 m freeboard

Map 7 of 19

Legend

- RDN Electoral Area
- RDN Village Centres
- Land Parcels
- Municipalities
- First Nation Reserve Lands
- Building Footprints
- Open Spaces (Park, Forest, Grasslands)
- Transects
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References:

1. Ebbwater Consulting Inc. and Cascadia Coast Research Ltd. (2021). Regional District of Nanaimo Coastal Floodplain Mapping. Prepared for the Regional District of Nanaimo.

Strait of Georgia

Parkville (City)

Area F

Date Created:	25 Apr 2022
Coordinate System:	NAD83, UTM 10N
Vertical Datum:	CGVD 2013
Paper Size:	ANSI D

SCHEDULE D

Prepared By:	NS
Reviewed By:	TL
Checked By:	TL

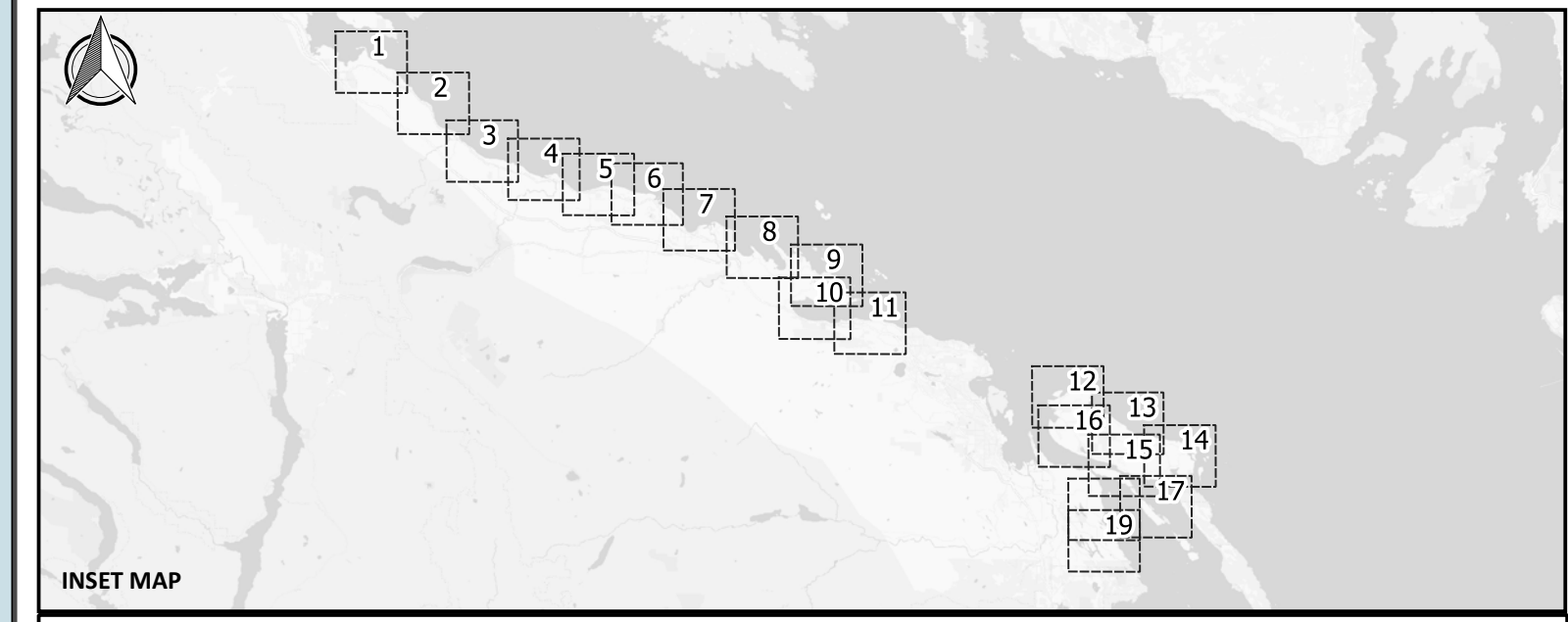
Scale: 1:10,000

0 0.25 0.5 0.75 km





- Legend**
- RDN Electoral Area
 - RDN Village Centres
 - Land Parcels
 - Municipalities
 - First Nation Reserve Lands
 - Building Footprints
 - Open Spaces (Park, Forest, Grasslands)
 - Transects
 - Flood Extent



Notes to User:

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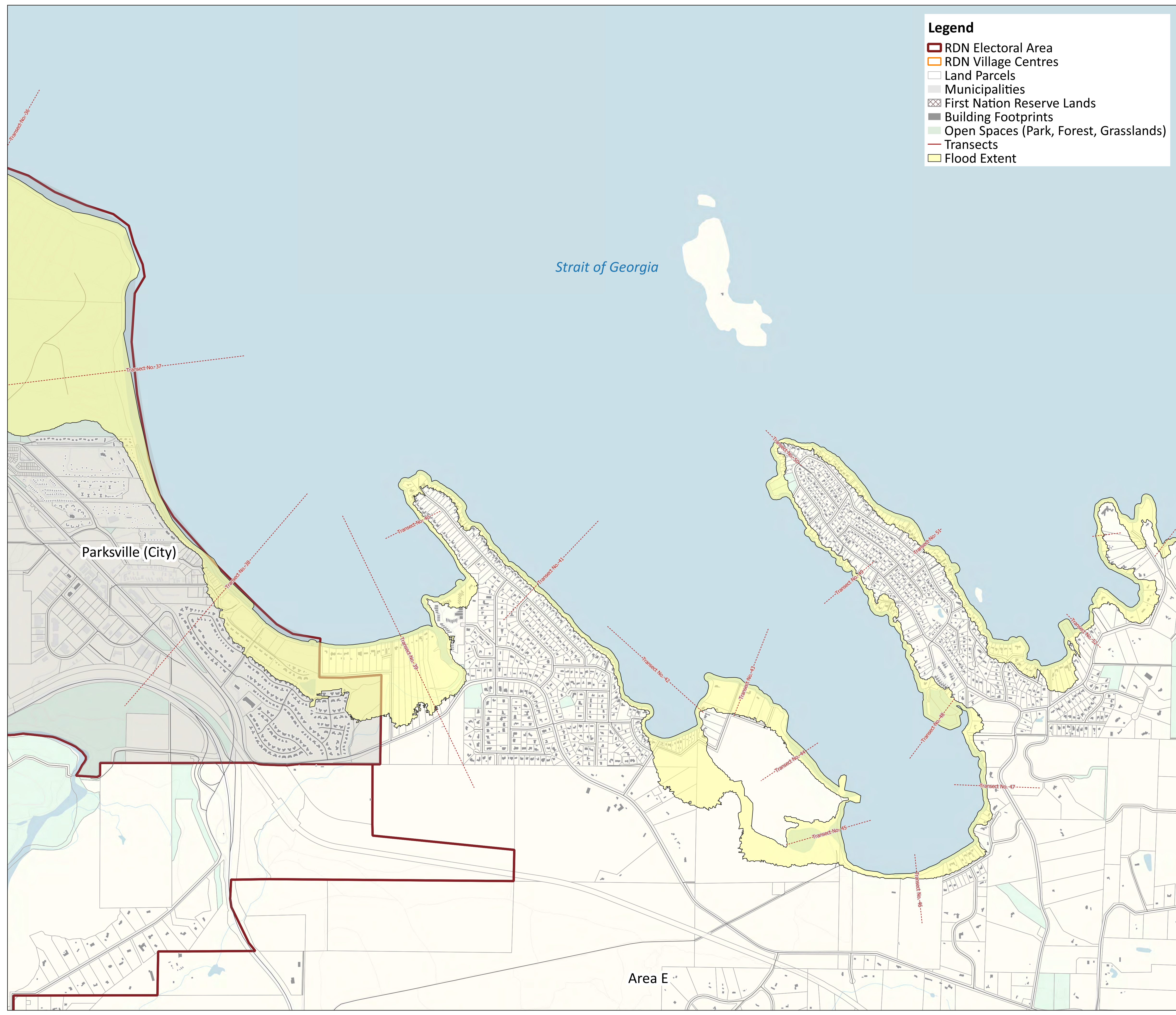
1. Ebbwater Consulting Inc. and Cascadia Coast Research Ltd. (2021). Regional District of Nanaimo Coastal Floodplain Mapping. Prepared for the Regional District of Nanaimo.

Date Created: 25 Apr 2022
 Coordinate System: NAD83, UTM 10N
 Vertical Datum: CGVD 2013
 Paper Size: ANSI D

Prepared By: NS
 Reviewed By: TL
 Checked By: TL

Scale: 1:10,000

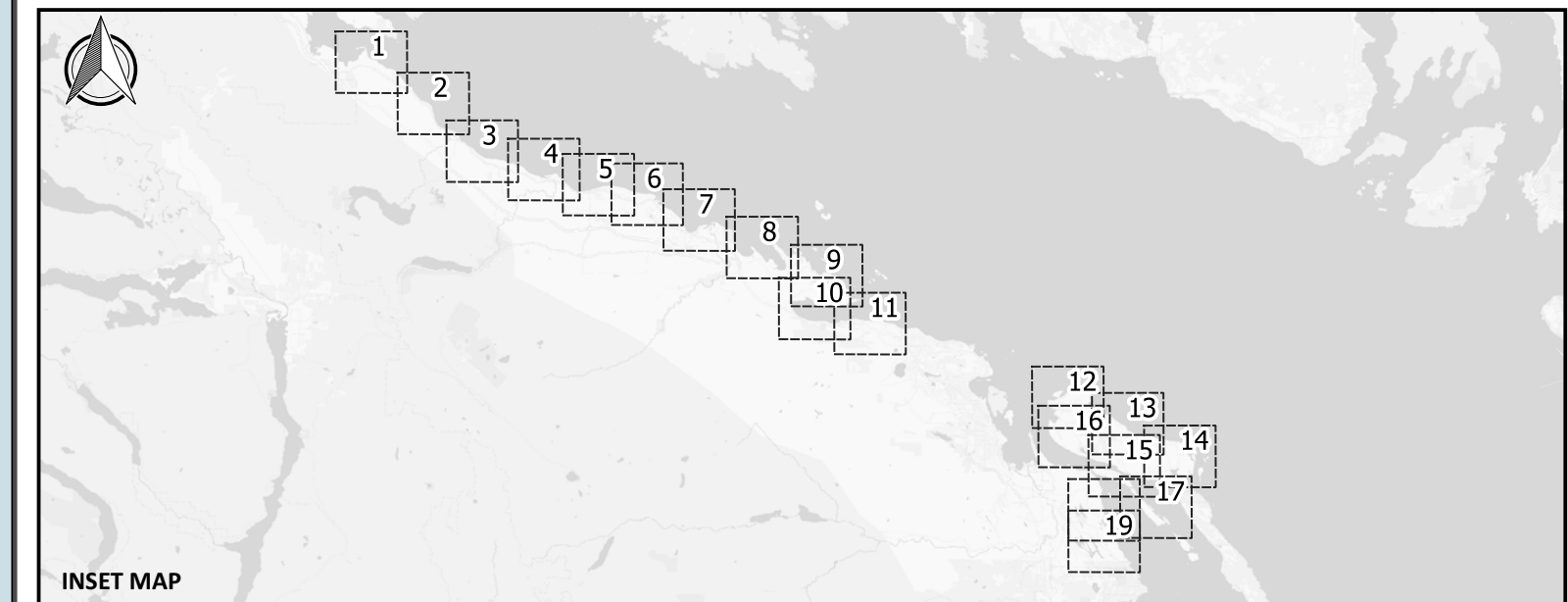
SCHEDULE D





Legend

- RDN Electoral Area
- RDN Village Centres
- Land Parcels
- Municipalities
- First Nation Reserve Lands
- Building Footprints
- Open Spaces (Park, Forest, Grasslands)
- Transects
- Flood Extent



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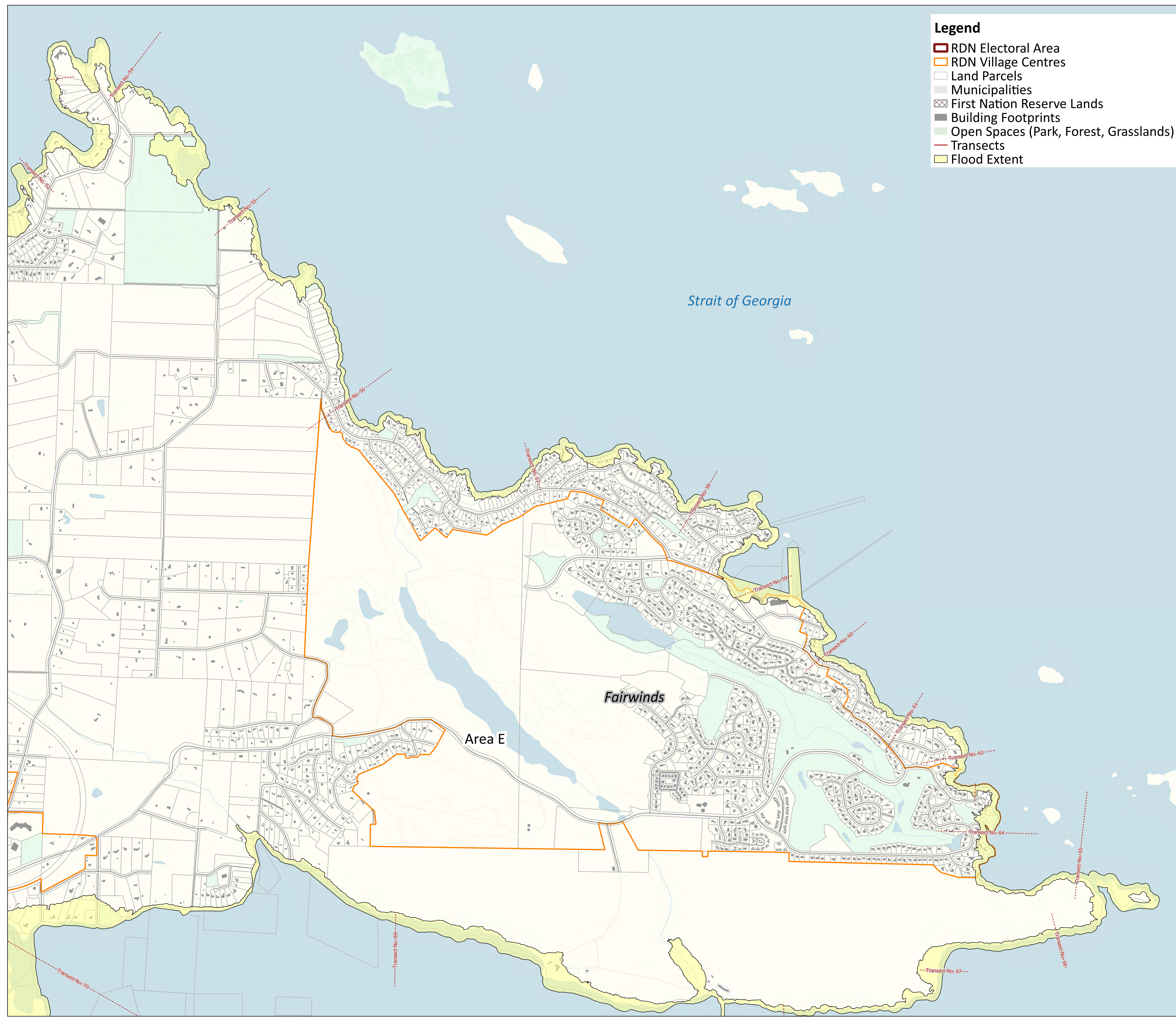
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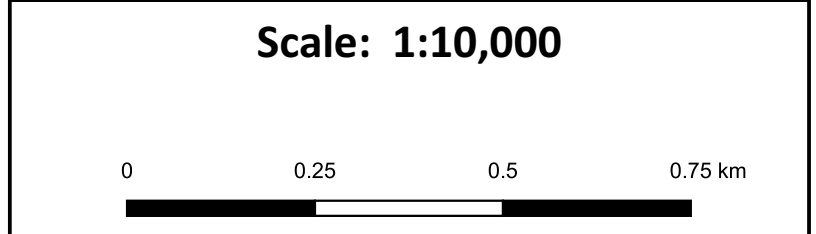
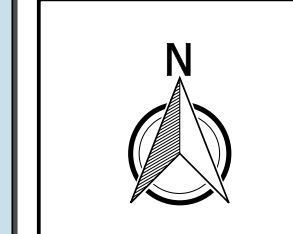
References:

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Date Created: 25 Apr 2022
 Coordinate System: NAD83, UTM 10N
 Vertical Datum: CGVD 2013
 Paper Size: ANSI D

Prepared By: NS
 Reviewed By: TL
 Checked By: TL



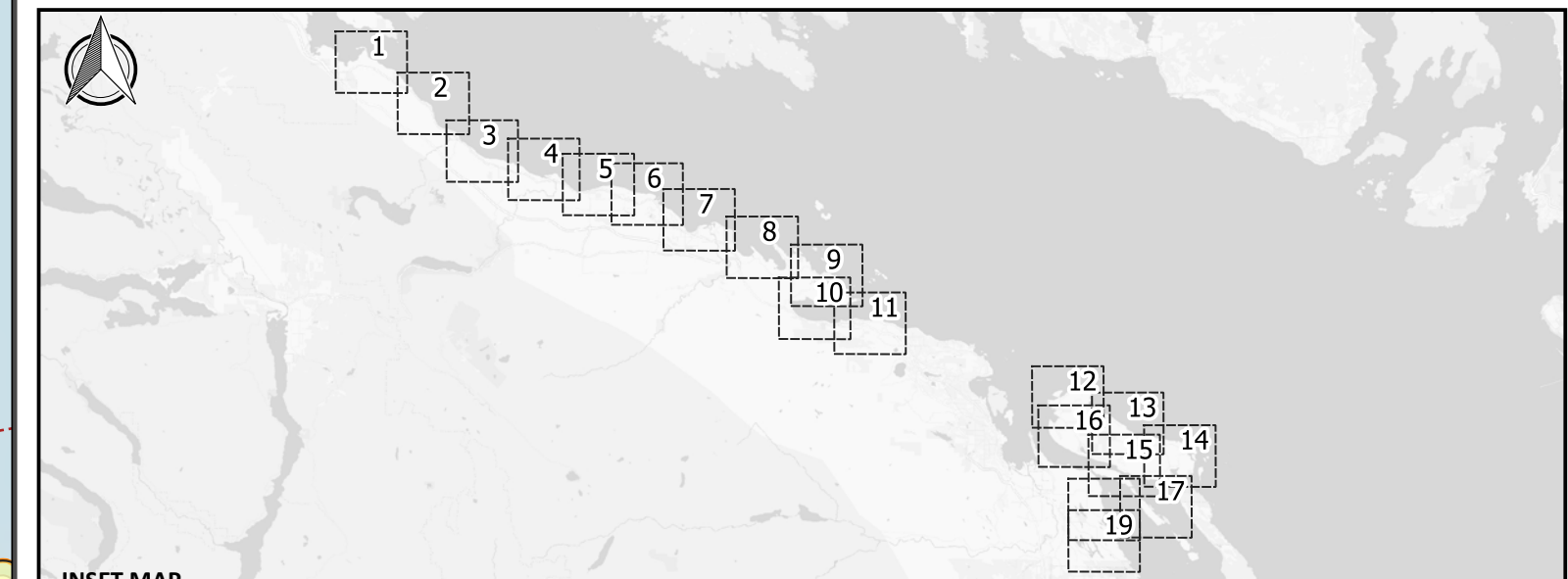
SCHEDULE D





Legend

- RDN Electoral Area
- RDN Village Centres
- Land Parcels
- Municipalities
- First Nation Reserve Lands
- Building Footprints
- Open Spaces (Park, Forest, Grasslands)
- Transects
- Flood Extent



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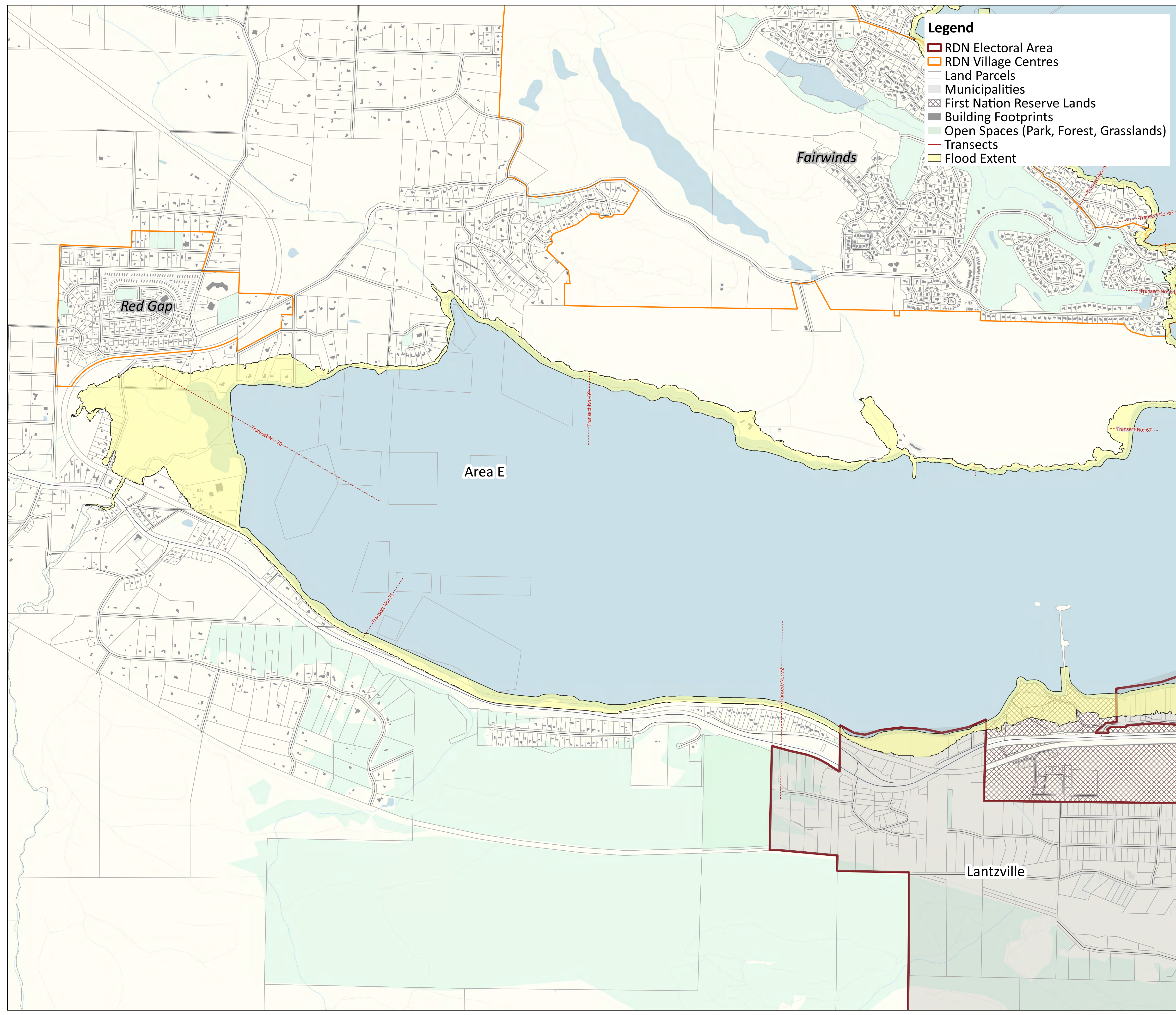
- References:**
1. Ebbwater Consulting Inc. and Cascadia Coast Research Ltd. (2021). Regional District of Nanaimo Coastal Floodplain Mapping. Prepared for the Regional District of Nanaimo.

Date Created: 25 Apr 2022
 Coordinate System: NAD83, UTM 10N
 Vertical Datum: CGVD 2013
 Paper Size: ANSI D

Prepared By: NS
 Reviewed By: TL
 Checked By: TL

Scale: 1:10,000

SCHEDULE D





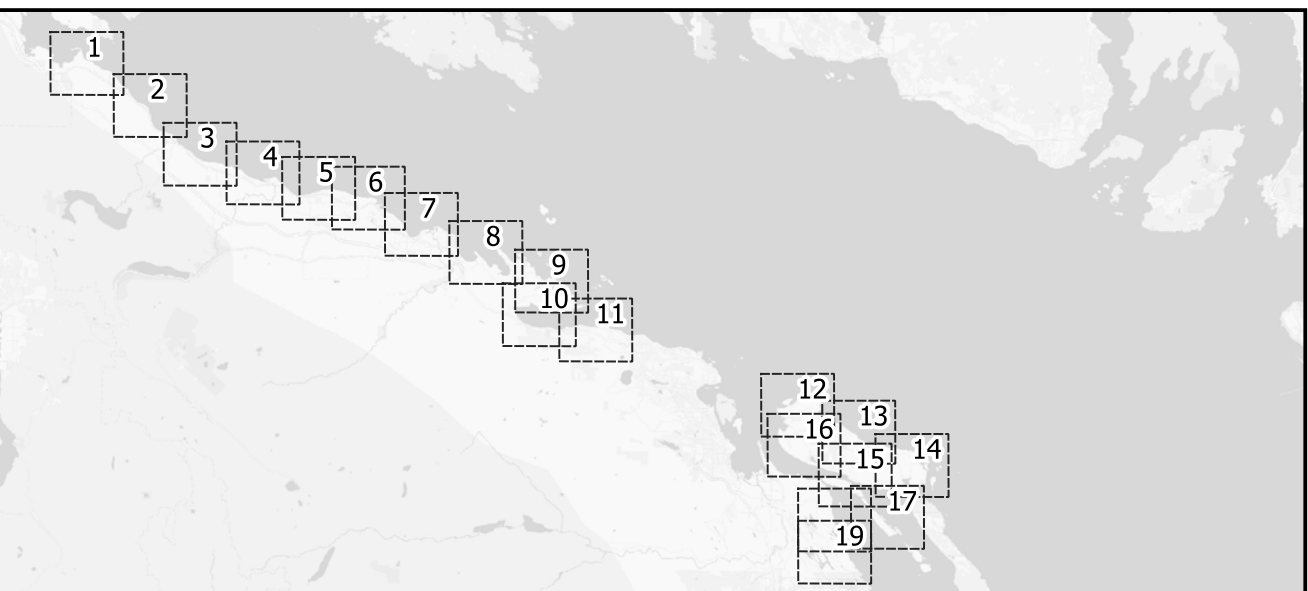
CITY OF LANTZVILLE REGULATORY COASTAL FLOODPLAIN MAP

0.5% AEP & 1 m RSLR plus 0.6 m freeboard

Map 11 of 19

Legend

- RDN Electoral Area
- RDN Village Centres
- Land Parcels
- Municipalities
- First Nation Reserve Lands
- Building Footprints
- Open Spaces (Park, Forest, Grasslands)
- Transects
- Flood Extent



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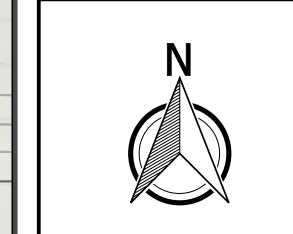
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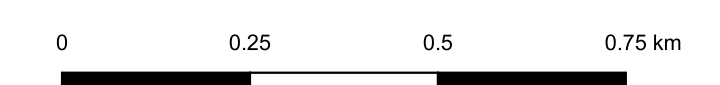
1. Ebbwater Consulting Inc. and Cascadia Coast Research Ltd. (2021). Regional District of Nanaimo Coastal Floodplain Mapping. Prepared for the Regional District of Nanaimo.

Date Created: 25 Apr 2022
 Coordinate System: NAD83, UTM 10N
 Vertical Datum: CGVD 2013
 Paper Size: ANSI D

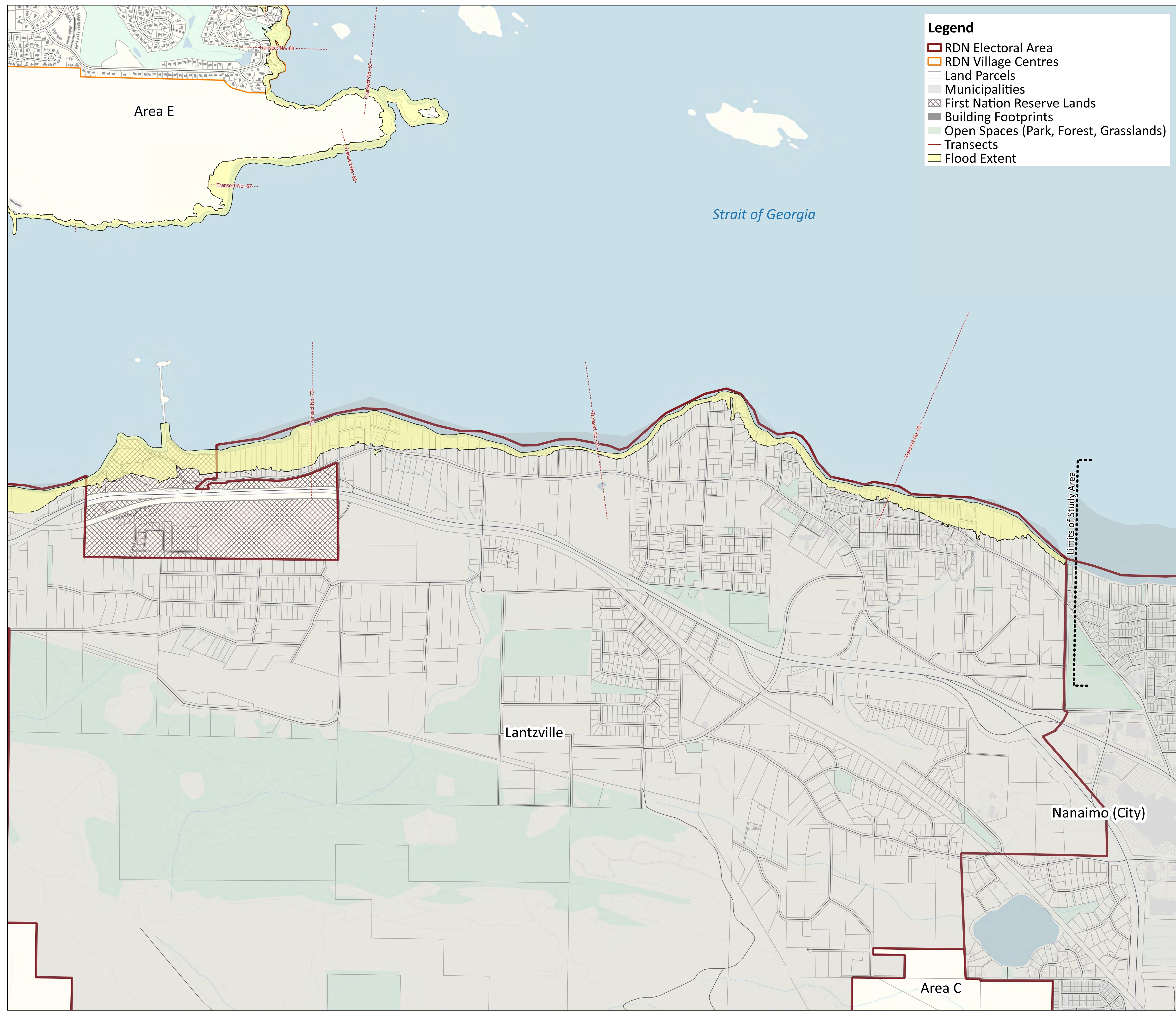
Prepared By: NS
 Reviewed By: TL
 Checked By: TL



Scale: 1:10,000



SCHEDULE D

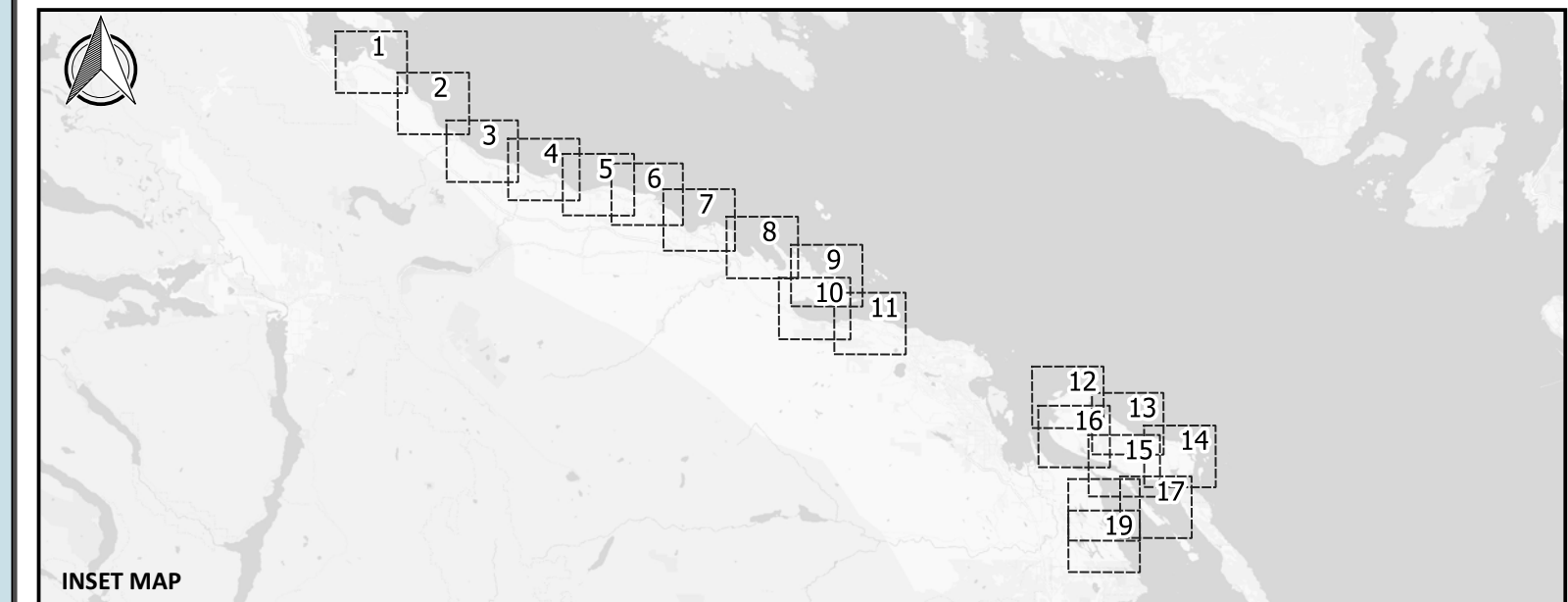




Legend

- RDN Electoral Area
- RDN Village Centres
- Land Parcels
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Strait of Georgia



INSET MAP

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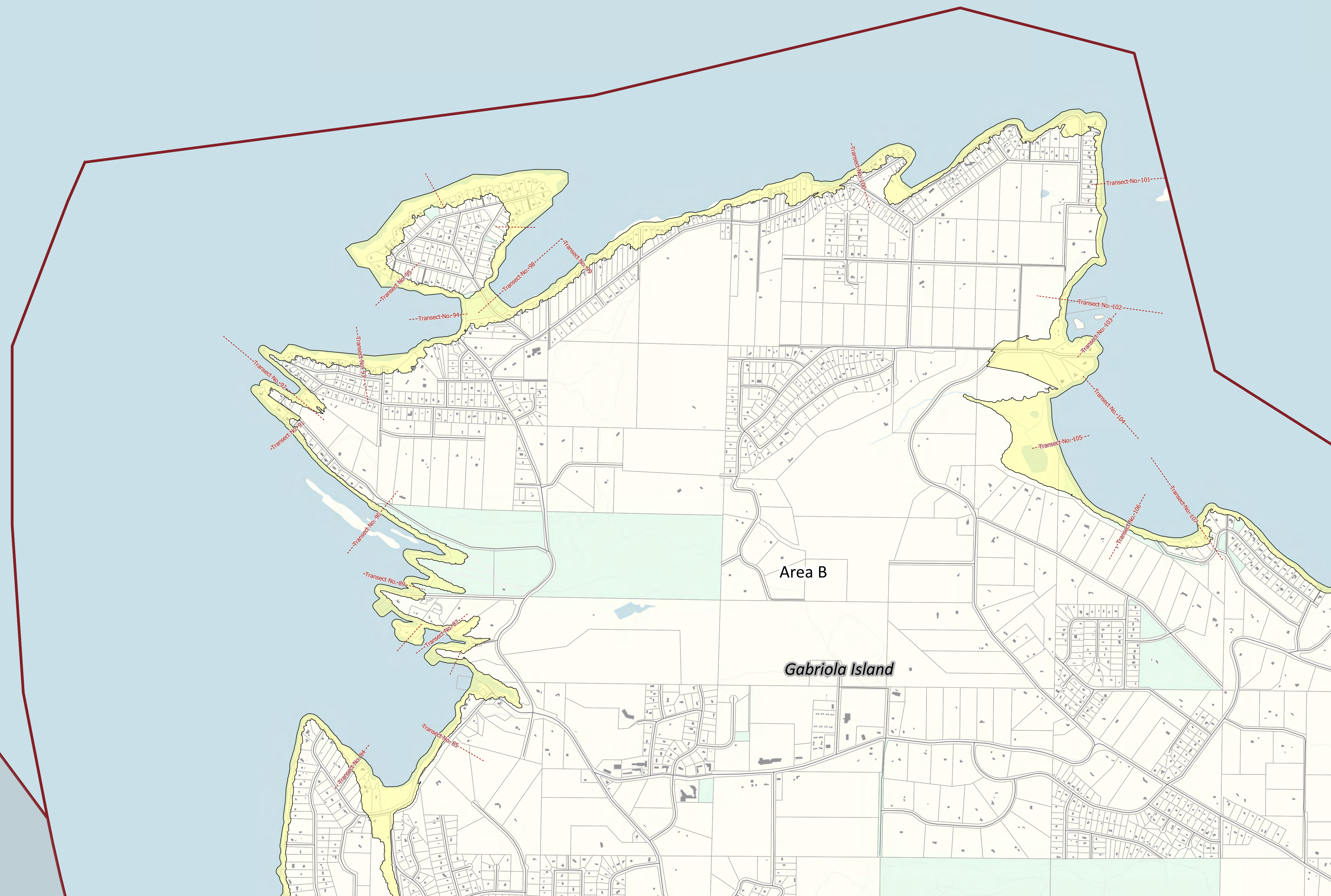
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Prepared By: NS
 Reviewed By: TL
 Checked By: TL

Scale: 1:10,000

SCHEDULE D





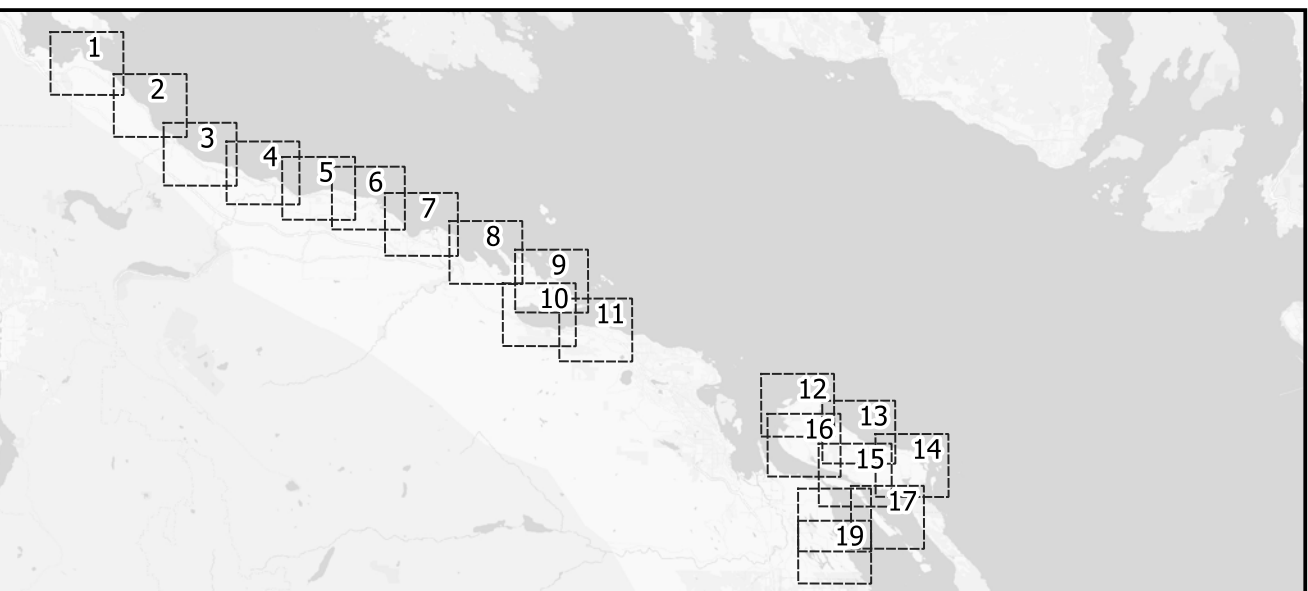
ELECTORAL AREA B (2 OF 6) REGULATORY COASTAL FLOODPLAIN MAP

0.5% AEP & 1 m RSLR plus 0.6 m freeboard

Map 13 of 19

Legend

- RDN Electoral Area
- RDN Village Centres
- Land Parcels
- Municipalities
- First Nation Reserve Lands
- Building Footprints
- Open Spaces (Park, Forest, Grasslands)
- Transects
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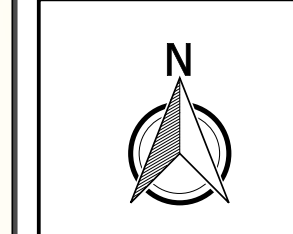
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Strait of Georgia

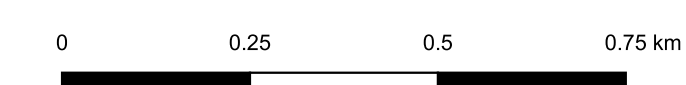
Area B

Date Created: 25 Apr 2022
 Coordinate System: NAD83, UTM 10N
 Vertical Datum: CGVD 2013
 Paper Size: ANSI D

Prepared By: NS
 Reviewed By: TL
 Checked By: TL



Scale: 1:10,000



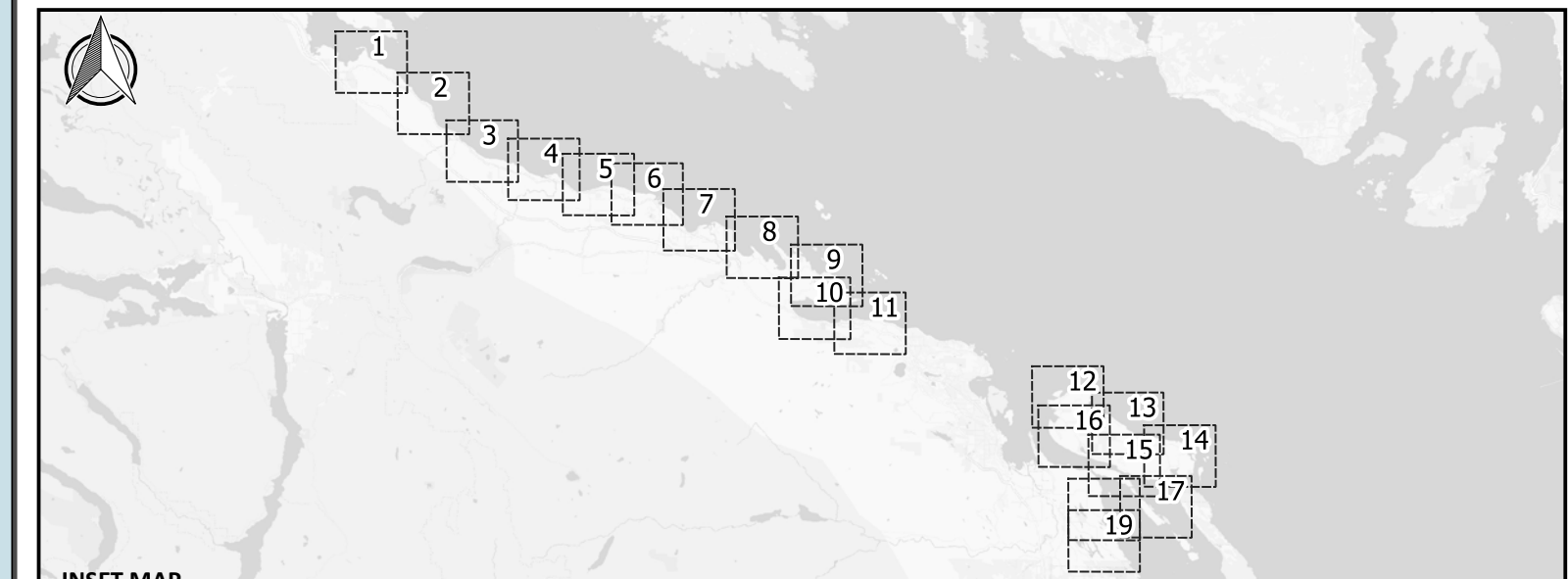
SCHEDULE D





Legend

- RDN Electoral Area
- RDN Village Centres
- Land Parcels
- Municipalities
- First Nation Reserve Lands
- Building Footprints
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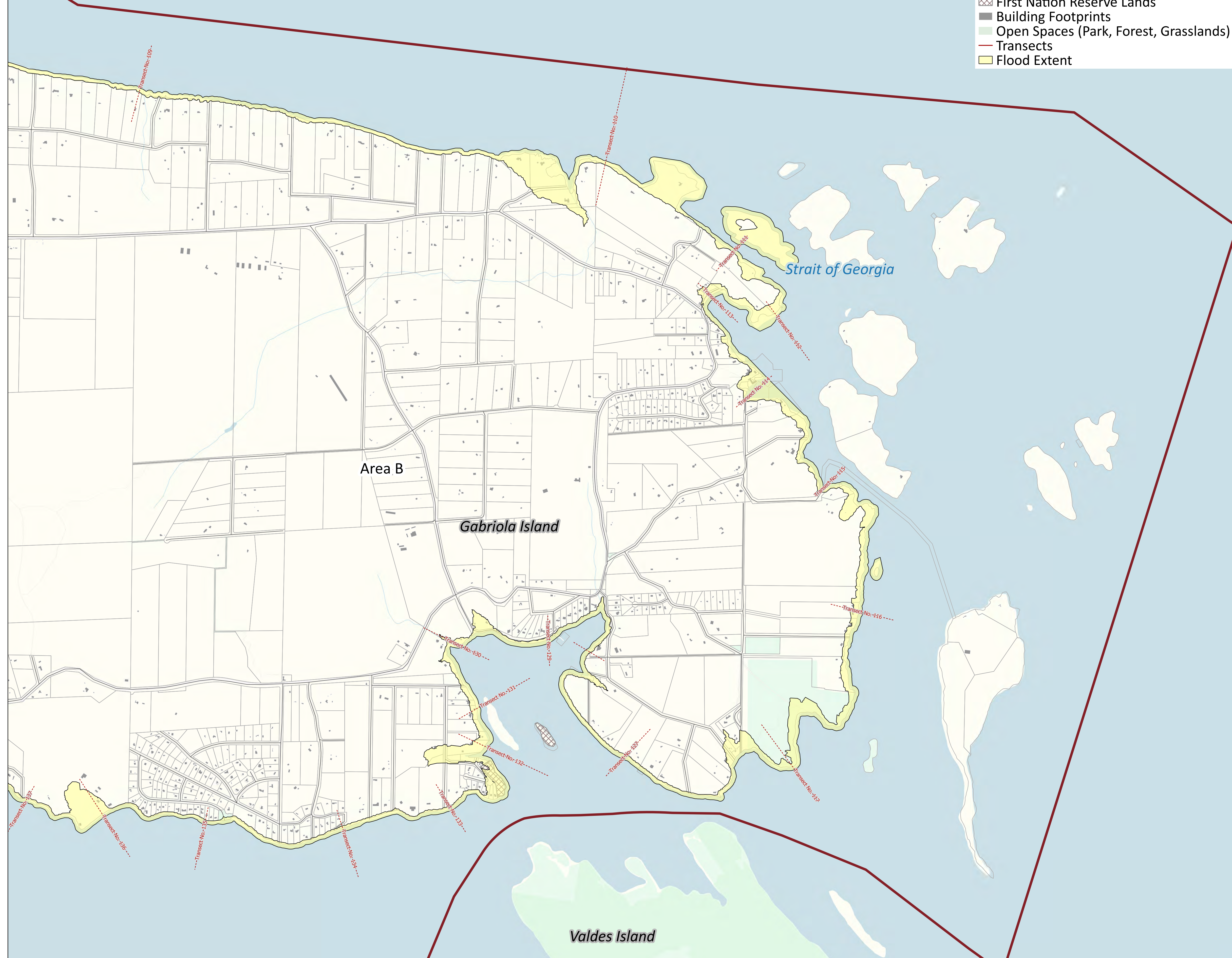
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1. Flood Construction Reference Plane (FCRP) values provided by Cascadia Coast Research Ltd.
2. First Nation Reserve Lands (also known as Indian Reserve Lands) layer was downloaded from DataBC, Province of British Columbia. The other civic boundary layers were provided by the Regional District of Nanaimo.
3. OSM Humanitarian Data Model and CARTO's Positron, created using derivatives of OpenStreetMap data - openstreetmap.org (© OpenStreetMap contributors; cartography license CC BY-SA).

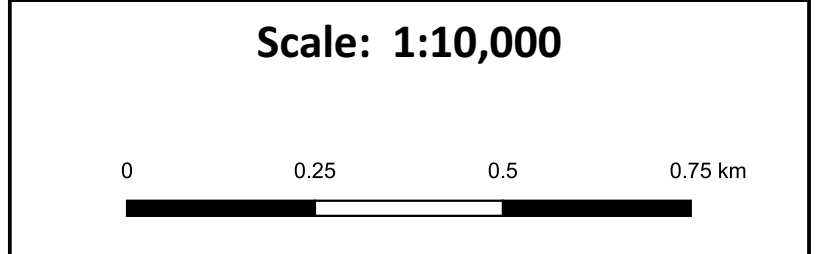
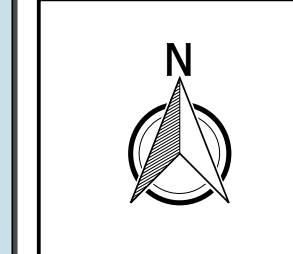
References:

1. Ebbwater Consulting Inc. and Cascadia Coast Research Ltd. (2021). Regional District of Nanaimo Coastal Floodplain Mapping. Prepared for the Regional District of Nanaimo.



Date Created: 25 Apr 2022
 Coordinate System: NAD83, UTM 10N
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 Paper Size: ANSI D

Prepared By: NS
 Reviewed By: TL
 Checked By: TL

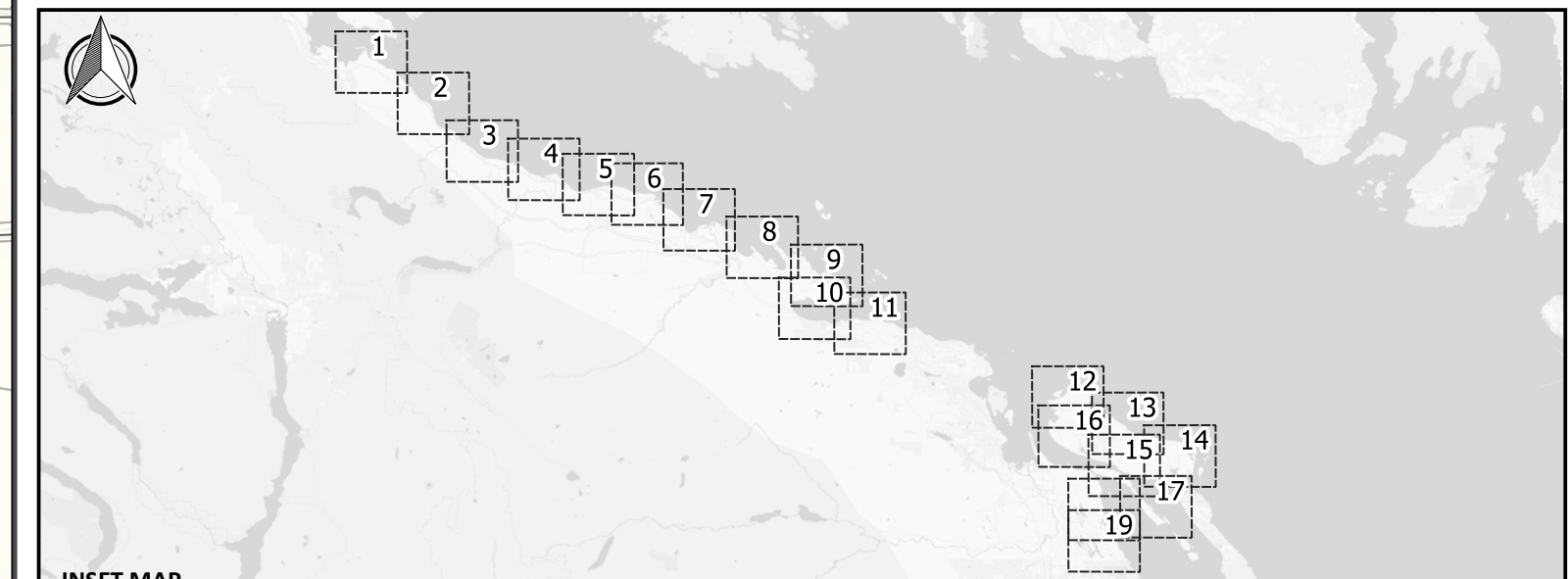


SCHEDULE D





- Legend**
- RDN Electoral Area
 - RDN Village Centres
 - Land Parcels
 - Municipalities
 - First Nation Reserve Lands
 - Building Footprints
 - Open Spaces (Park, Forest, Grasslands)
 - Transects
 - Flood Extent



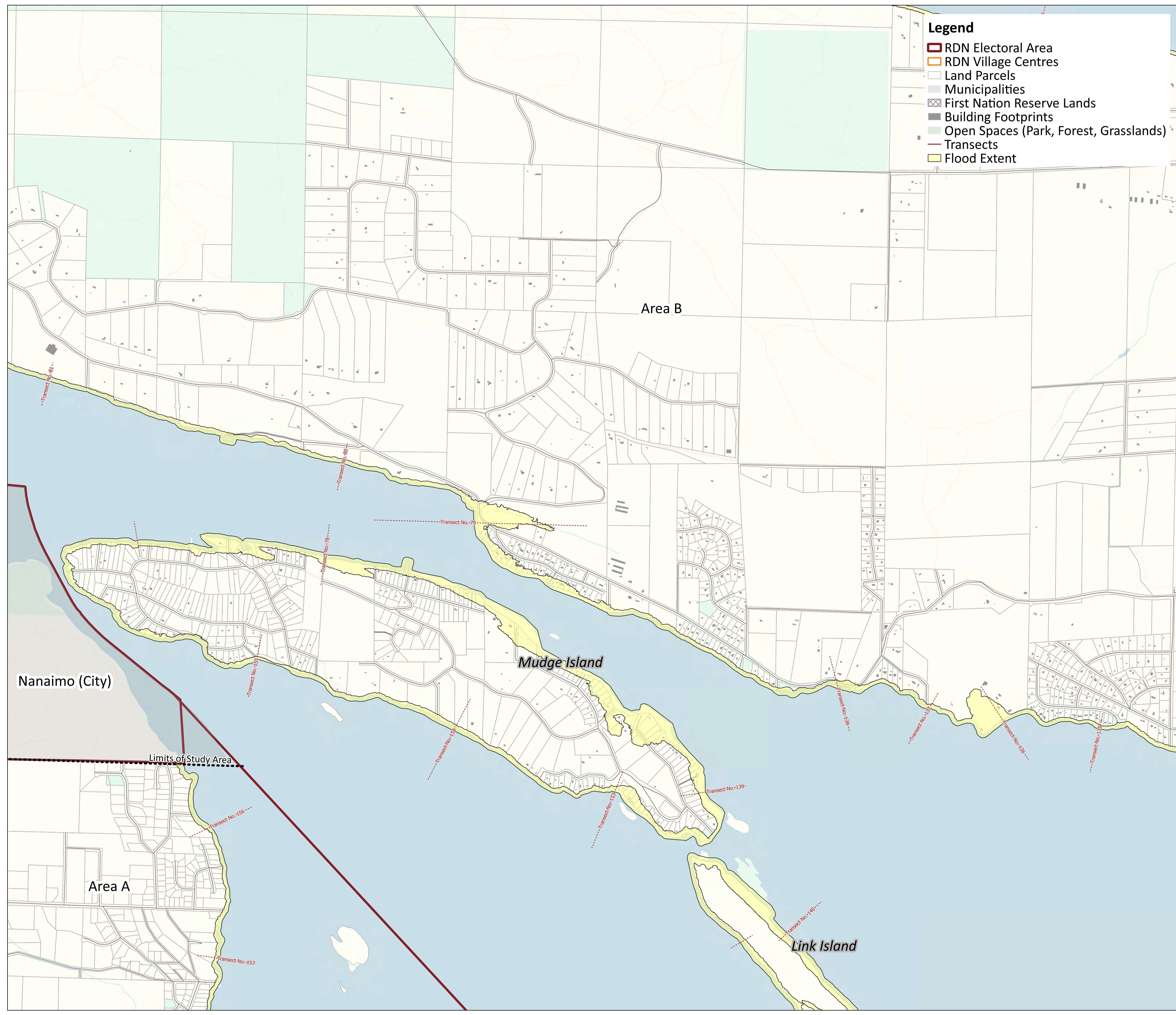
INSET MAP

- Notes to User:**
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 - The adopted values for sea level rise are based on guidelines from Ausenco Sandwell (2011). These are subject to change and RSLR values may need to be reassessed in future.
 - A 0.6 m freeboard allowance has been included in water levels in accordance with Ausenco Sandwell (2011).
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- Limitations:**
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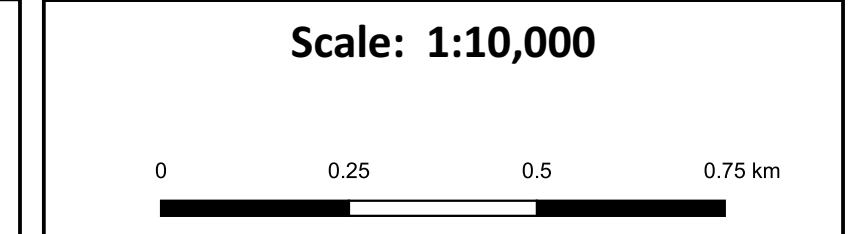
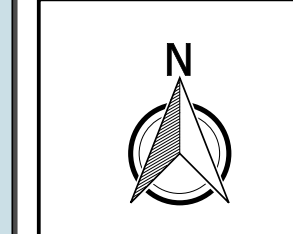
- References:**
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SCHEDULE D

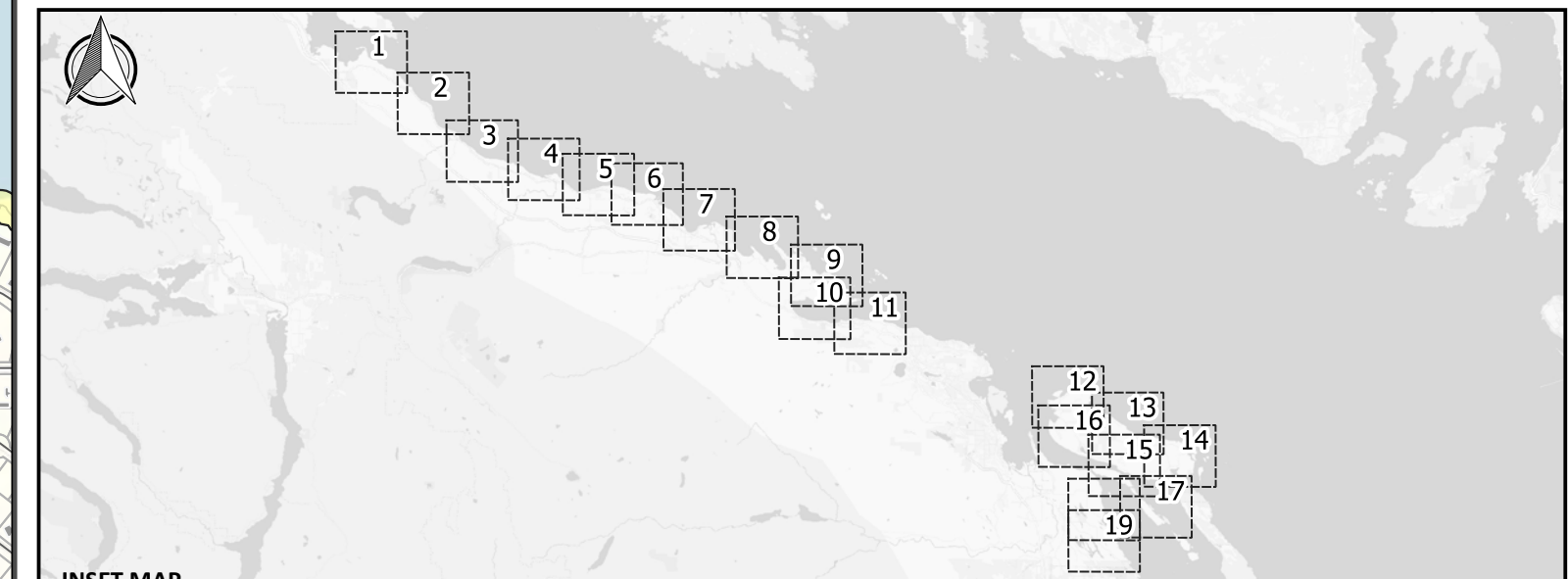
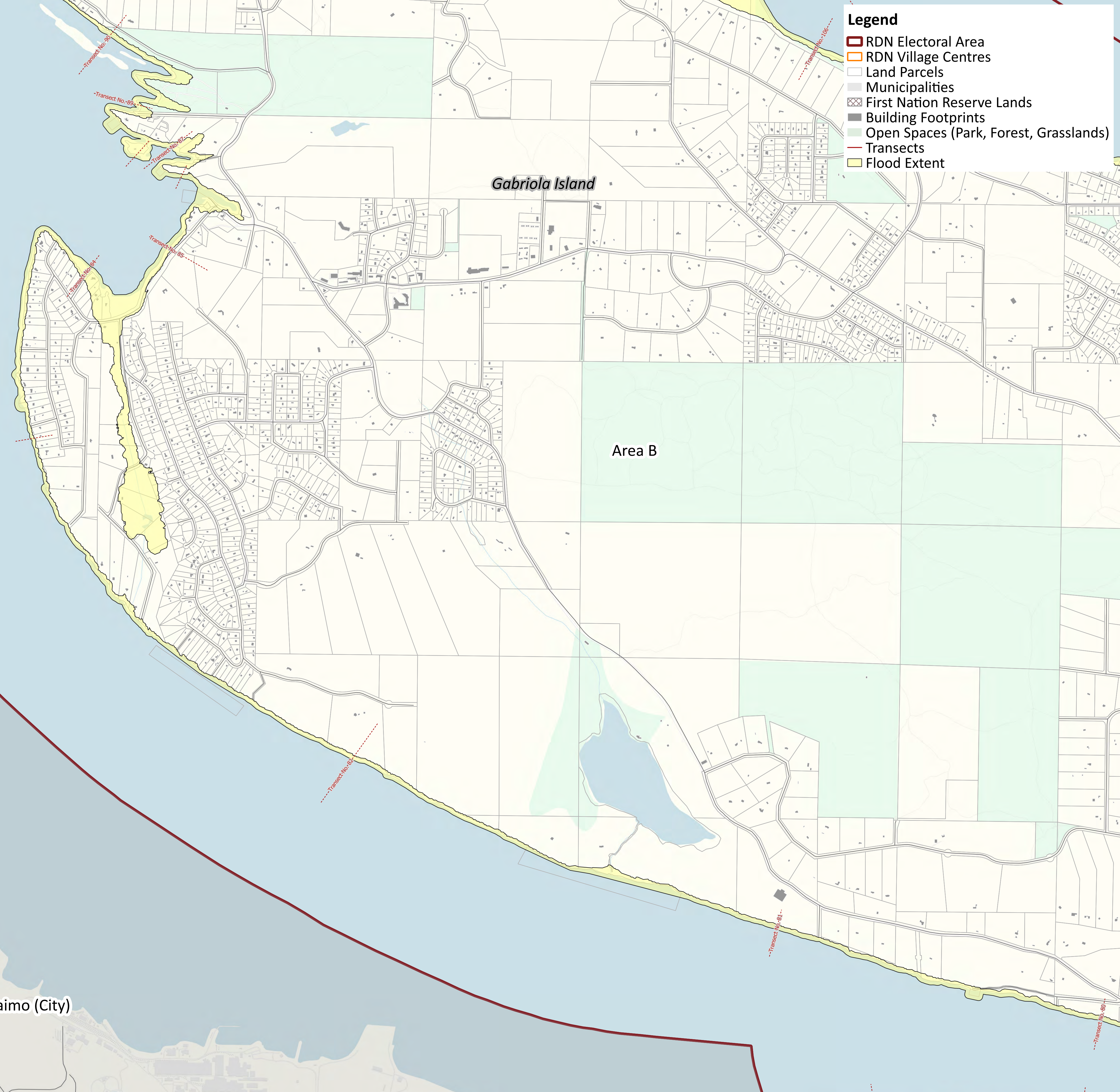
Prepared By: NS
 Reviewed By: TL
 Checked By: TL





ELECTORAL AREA B (5 OF 6)
REGULATORY COASTAL FLOODPLAIN MAP
0.5% AEP & 1 m RSLR plus 0.6 m freeboard
 Map 16 of 19

- Legend**
- RDN Electoral Area
 - RDN Village Centres
 - Land Parcels
 - Municipalities
 - First Nation Reserve Lands
 - Building Footprints
 - Open Spaces (Park, Forest, Grasslands)
 - Transects
 - Flood Extent



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 - Application of the information presented in this map should be done in accordance with relevant policy and regulations by a suitably qualified professional.

- Limitations:**
- The accuracy of the presented flood extents is limited by available data and modelling approaches. The flood extents are based on 1D cross-shore transects. Please refer to report (Ebbwater Consulting Inc and Cascadia Coast Research Ltd., 2021) for a detailed discussion of limitations.
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- References:**
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Date Created:	25 Apr 2022
Coordinate System:	NAD83, UTM 10N
Vertical Datum:	CGVD 2013
Paper Size:	ANSI D

Prepared By:	NS
Reviewed By:	TL
Checked By:	TL

SCHEDULE D

Scale: 1:10,000

0 0.25 0.5 0.75 km

Nanaimo (City)

Gabriola Island

Area B

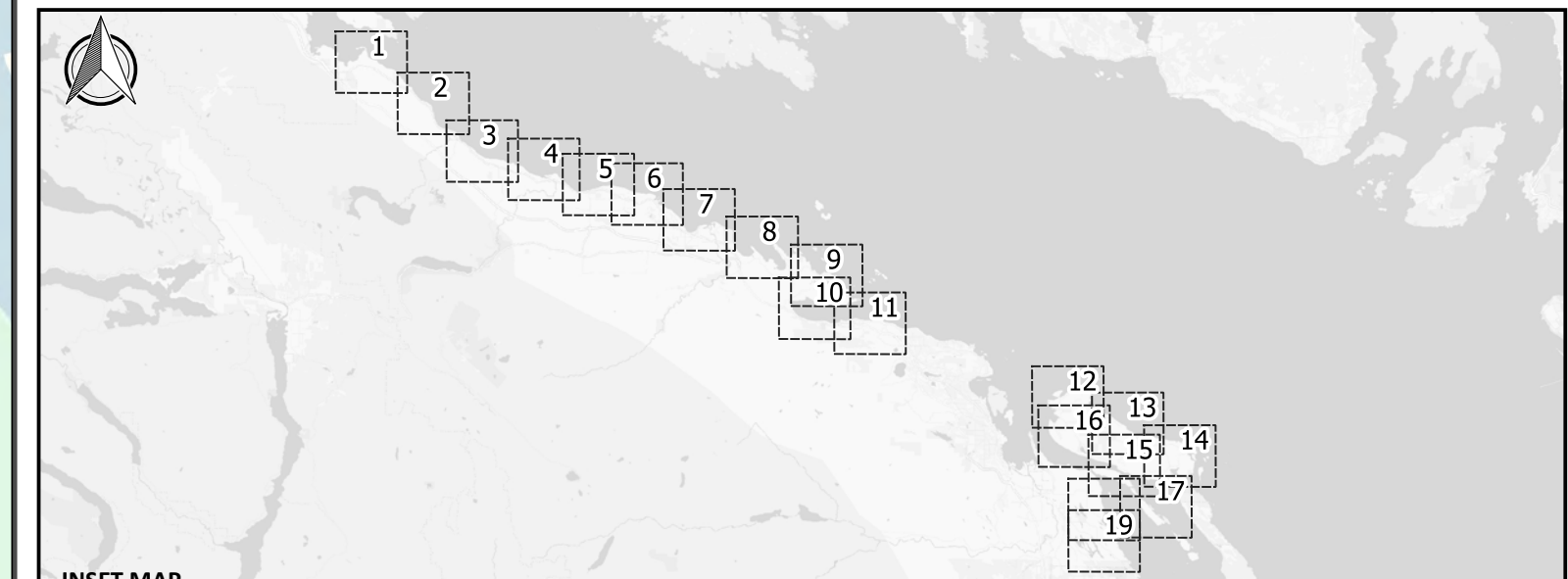


ELECTORAL AREA B (6 OF 6) REGULATORY COASTAL FLOODPLAIN MAP

0.5% AEP & 1 m RSLR plus 0.6 m freeboard

Map 17 of 19

- Legend**
- RDN Electoral Area
 - RDN Village Centres
 - Land Parcels
 - Municipalities
 - First Nation Reserve Lands
 - Building Footprints
 - Open Spaces (Park, Forest, Grasslands)
 - Transects
 - Flood Extent



INSET MAP

Notes to User:

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Data Sources:

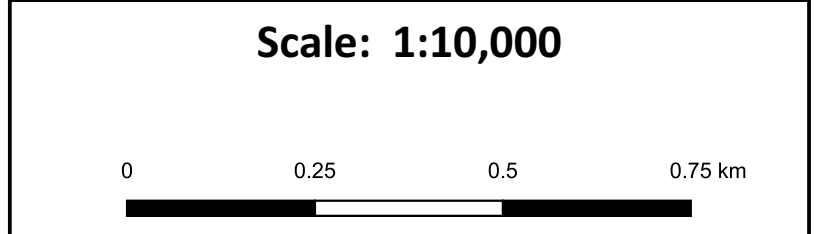
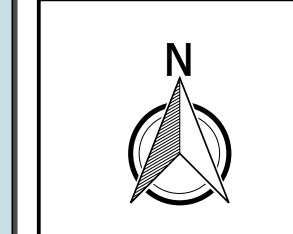
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References:

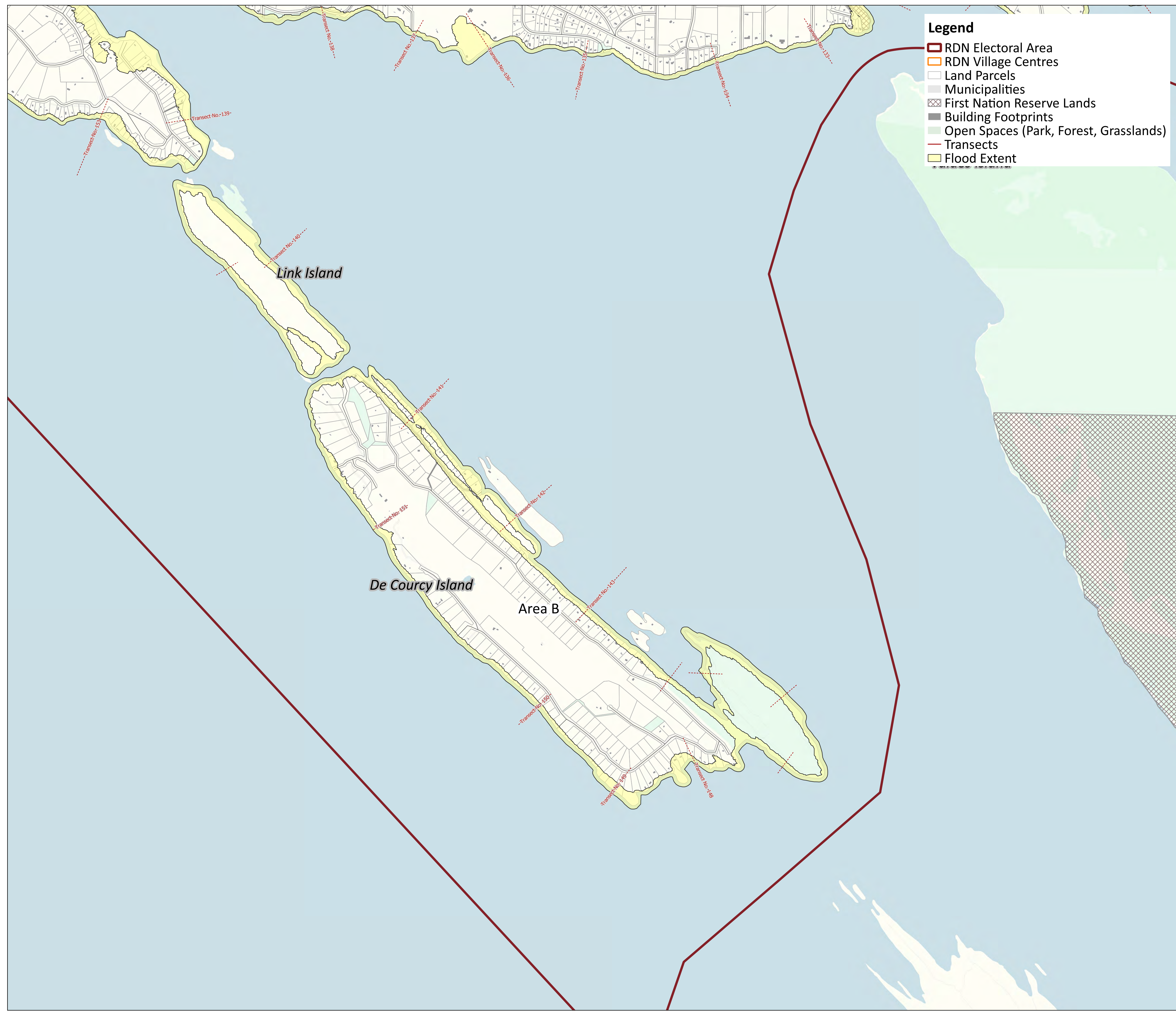
1. Ebbwater Consulting Inc. and Cascadia Coast Research Ltd. (2021). Regional District of Nanaimo Coastal Floodplain Mapping. Prepared for the Regional District of Nanaimo.

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 Vertical Datum: CGVD 2013
 Paper Size: ANSI D

Prepared By: NS
 Reviewed By: TL
 Checked By: TL



SCHEDULE D



Nanaimo (City)

Limits of Study Area

Legend

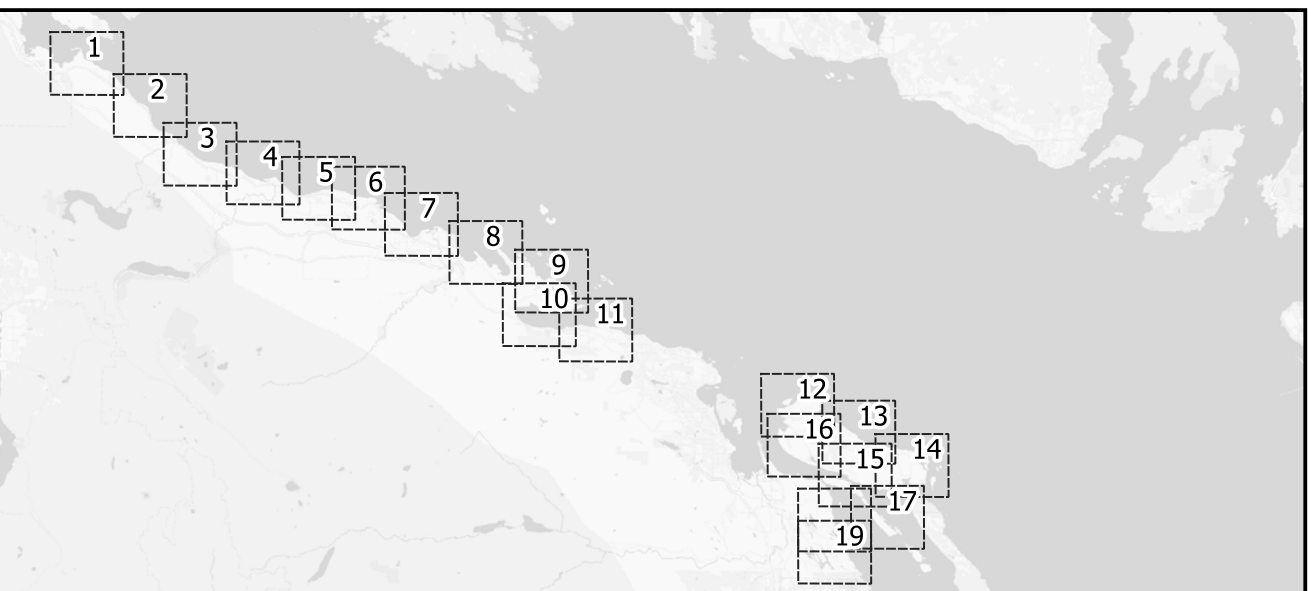
- RDN Electoral Area
- RDN Village Centres
- Land Parcels
- Municipalities
- First Nation Reserve Lands
- Building Footprints
- Open Spaces (Park, Forest, Grasslands)
- Transects
- Flood Extent



**ELECTORAL AREA A (1 OF 2)
REGULATORY COASTAL FLOODPLAIN MAP**

0.5% AEP & 1 m RSLR plus 0.6 m freeboard

Map 18 of 19



INSET MAP

Notes to User:

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References:

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Strait of Georgia

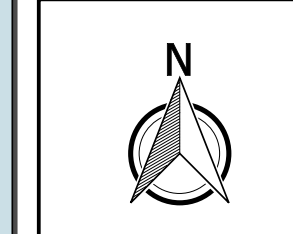
Link Island

Area A

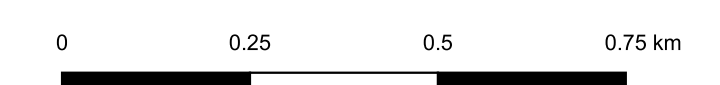
Date Created: 25 Apr 2022
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 Paper Size: ANSI D

SCHEDULE D

Prepared By: NS
 Reviewed By: TL
 Checked By: TL



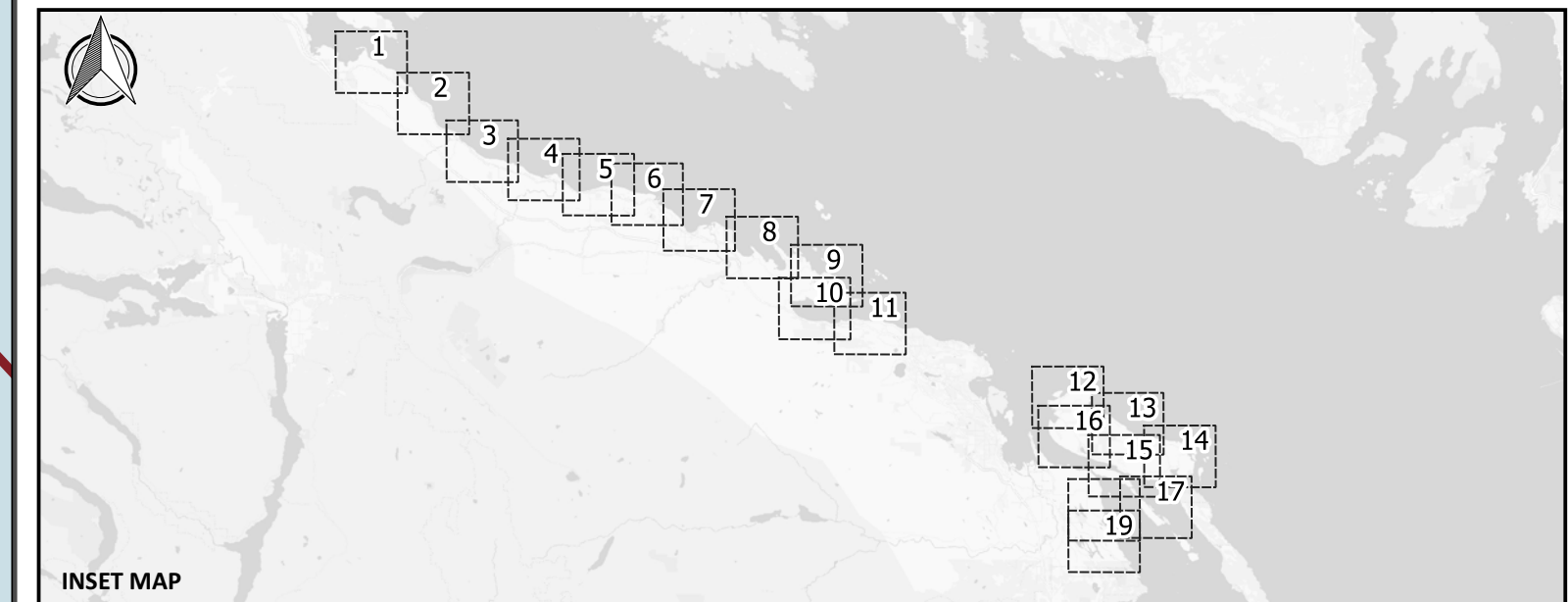
Scale: 1:10,000





Legend

- RDN Electoral Area
- RDN Village Centres
- Land Parcels
- Municipalities
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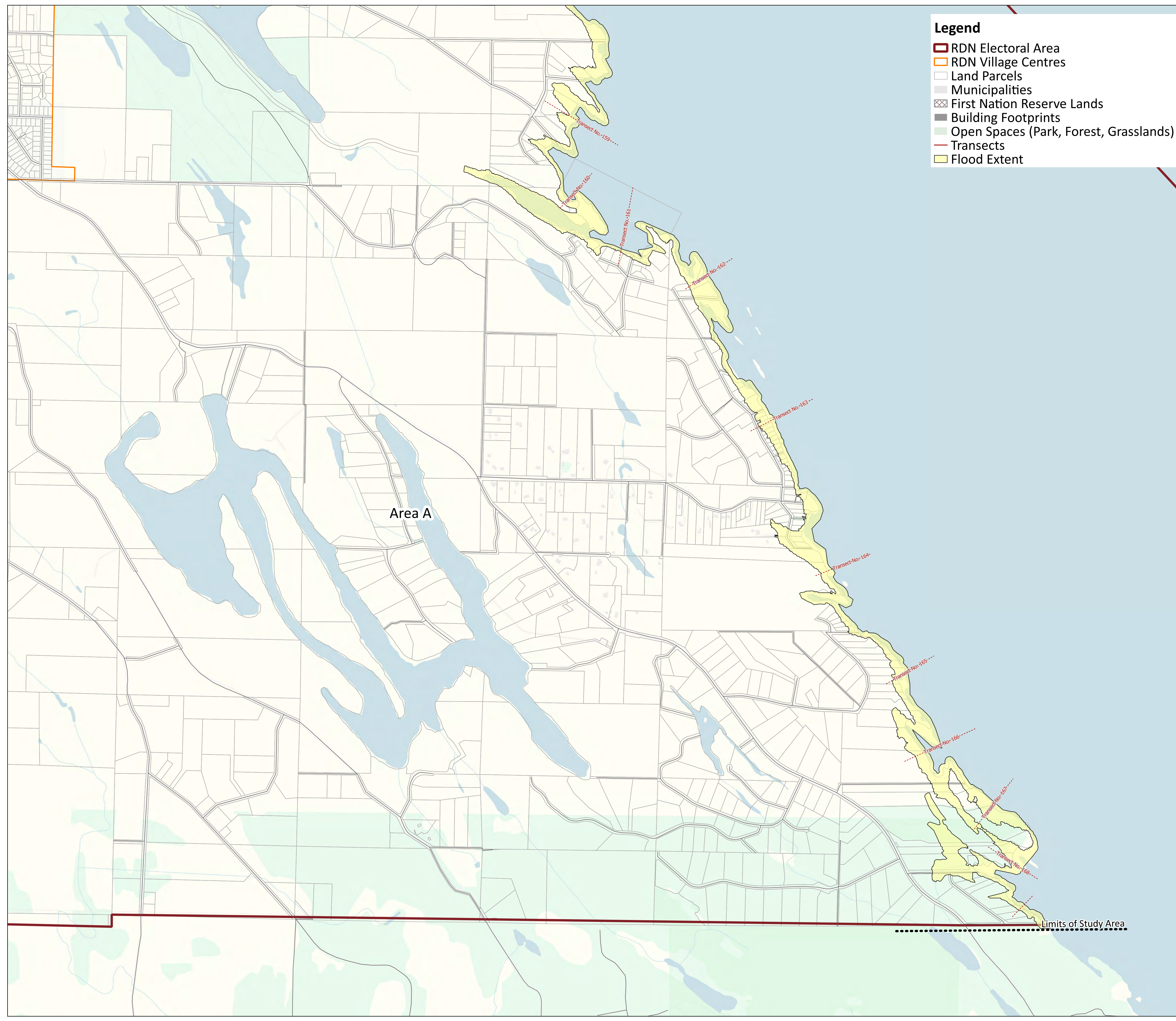
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SCHEDULE D

Prepared By: NS
 Reviewed By: TL
 Checked By: TL

