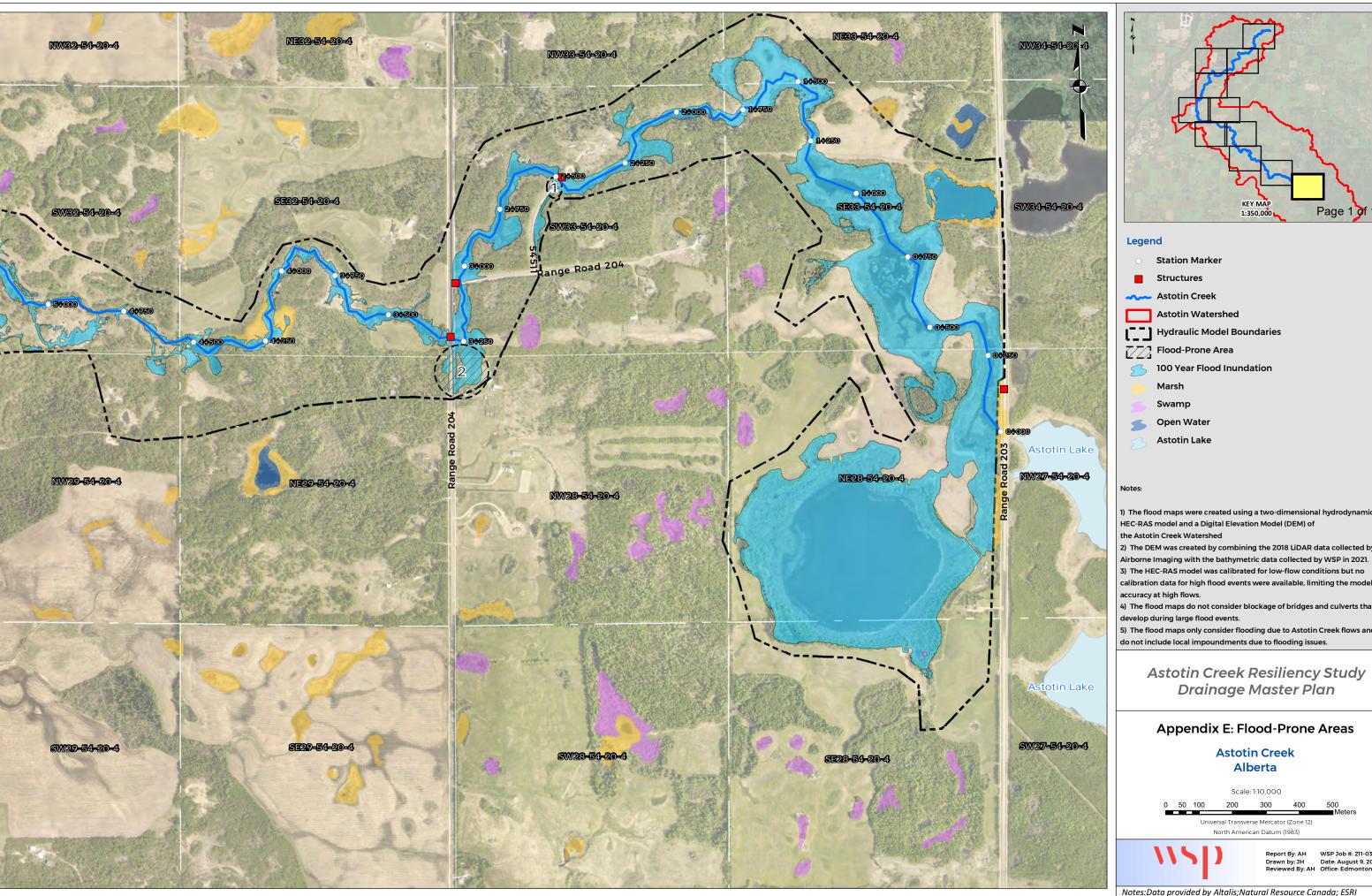
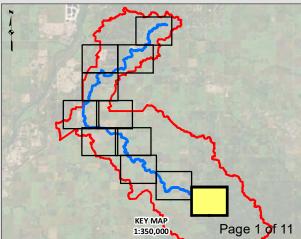
Appendix E Flood-Prone

Areas





- 1) The flood maps were created using a two-dimensional hydrodynamic HEC-RAS model and a Digital Elevation Model (DEM) of
- 2) The DEM was created by combining the 2018 LiDAR data collected by
- 3) The HEC-RAS model was calibrated for low-flow conditions but no calibration data for high flood events were available, limiting the model's
- 4) The flood maps do not consider blockage of bridges and culverts that may
- 5) The flood maps only consider flooding due to Astotin Creek flows and do not include local impoundments due to flooding issues.

Astotin Creek Resiliency Study Drainage Master Plan

Appendix E: Flood-Prone Areas

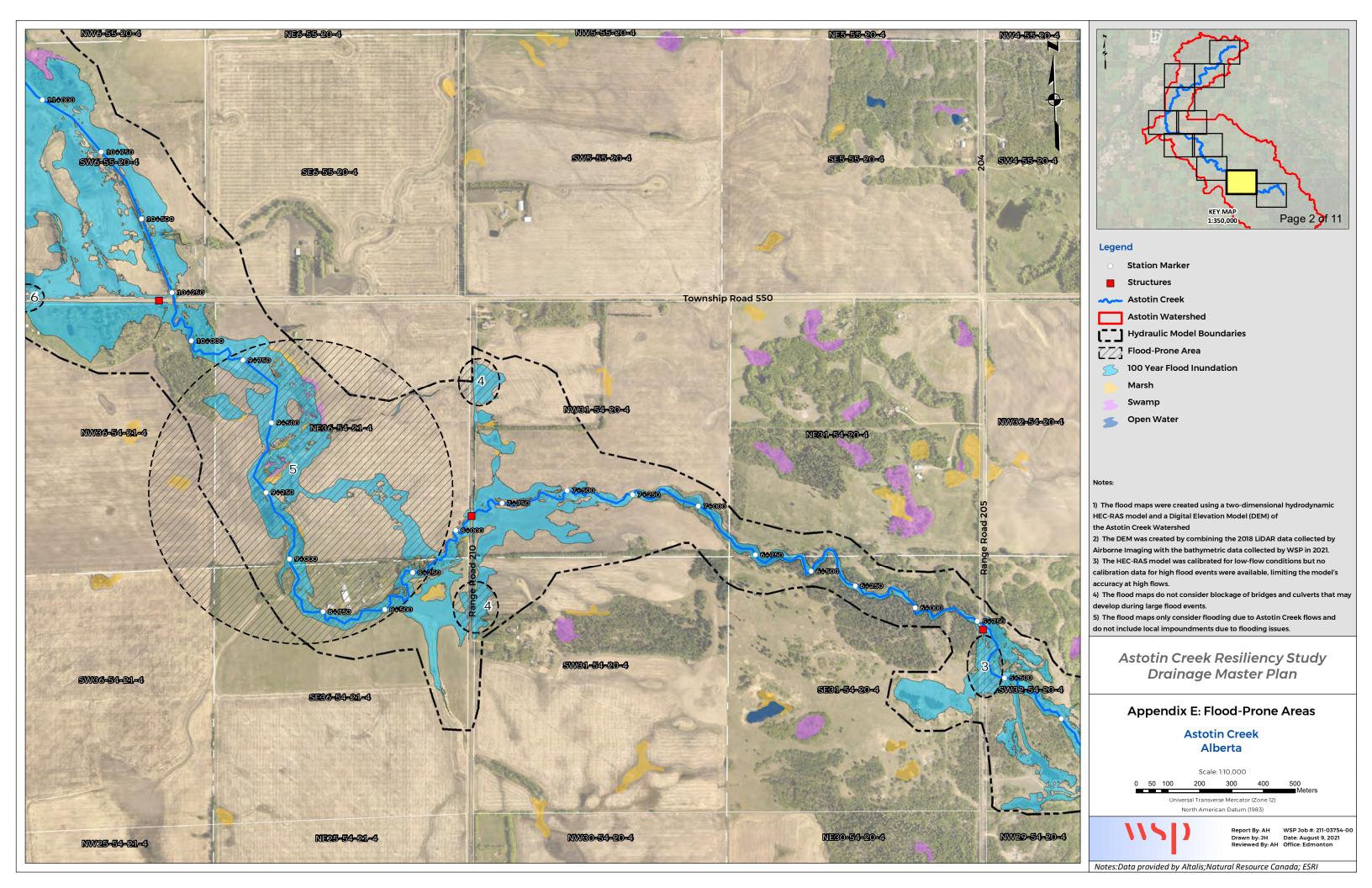
Astotin Creek Alberta

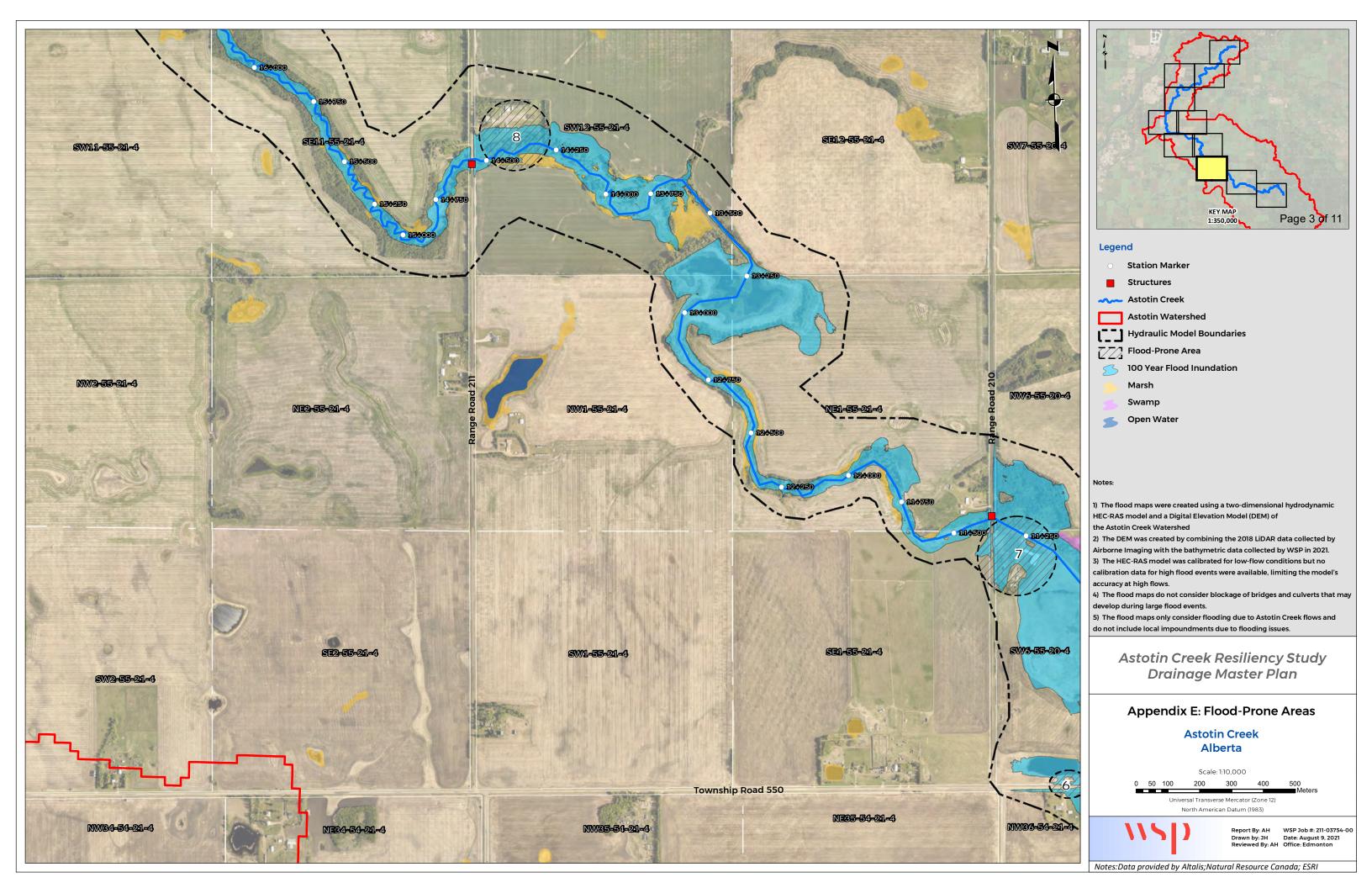
Scale: 1:10,000

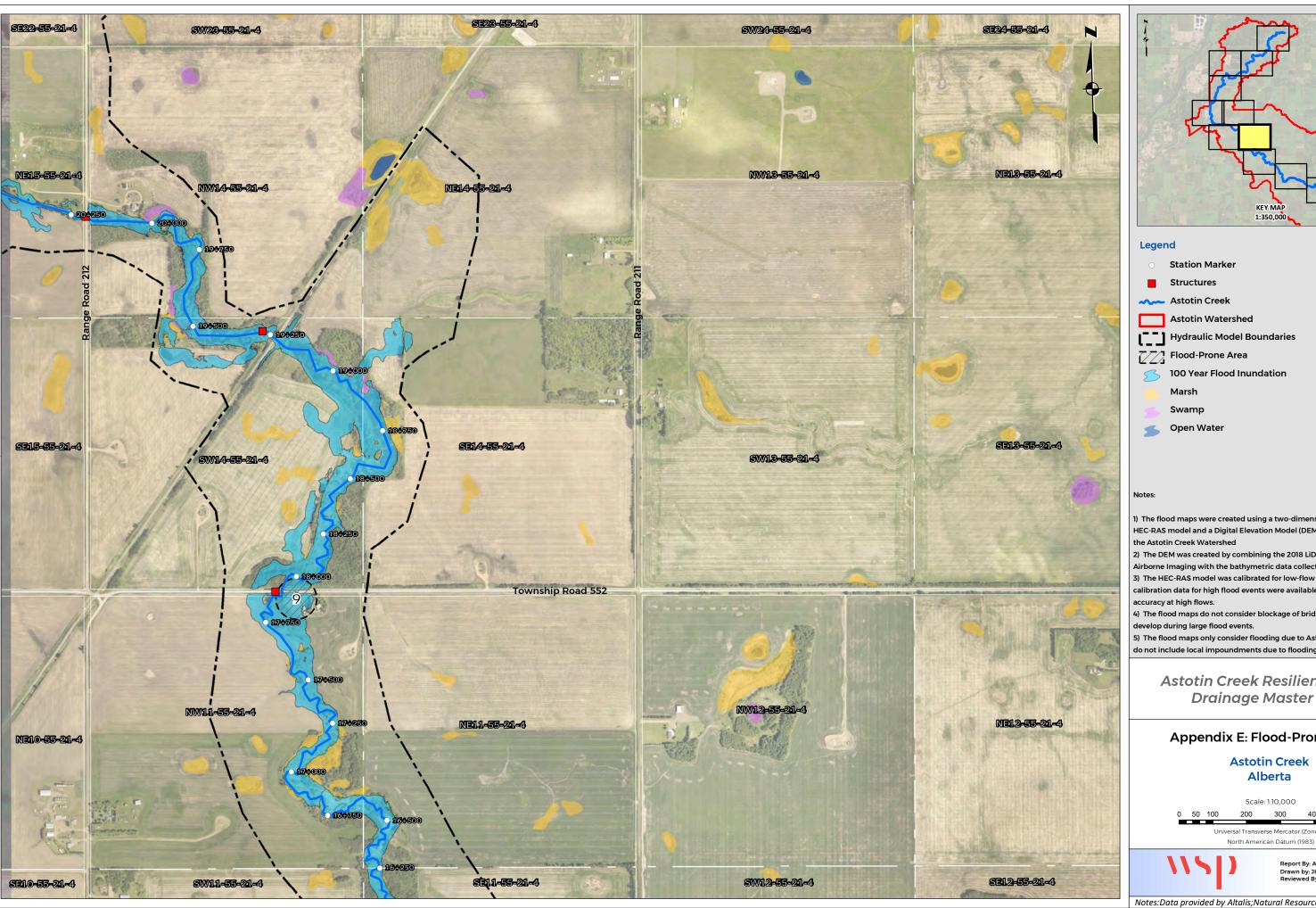
Universal Transverse Mercator (Zone 12) North American Datum (1983)

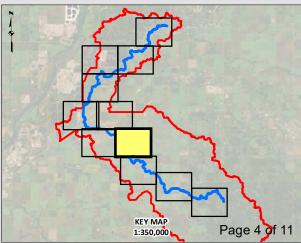
WSP Job #: 211-03754-00

Notes:Data provided by Altalis;Natural Resource Canada; ESRI









- 1) The flood maps were created using a two-dimensional hydrodynamic HEC-RAS model and a Digital Elevation Model (DEM) of
- 2) The DEM was created by combining the 2018 LiDAR data collected by Airborne Imaging with the bathymetric data collected by WSP in 2021.
- 3) The HEC-RAS model was calibrated for low-flow conditions but no calibration data for high flood events were available, limiting the model's
- 4) The flood maps do not consider blockage of bridges and culverts that may
- 5) The flood maps only consider flooding due to Astotin Creek flows and do not include local impoundments due to flooding issues.

Astotin Creek Resiliency Study Drainage Master Plan

Appendix E: Flood-Prone Areas

Astotin Creek Alberta

Scale: 1:10,000 Universal Transverse Mercator (Zone 12)

Report By: AH WSP Job #: 211-03754-00

Notes:Data provided by Altalis;Natural Resource Canada; ESRI

