20-14A Foundation Design Flowchart based on Available Soil Data - Attachment A

Start

Project Type

Widening or Replacement

New

Is there sufficient geotechnical subsurface data in the area? Yes

Establish liquefaction severity level based on the existing LOTB

Yes

Establish liquefaction severity level based on the existing geotechnical data in the area

No

Is subsurface investigation feasible at APS stage? Yes

Request subsurface investigation. Establish liquefaction severity level based on the results of subsurface investigation

No

Consult with the Geotechnical Engineer to establish liquefaction severity level based on best judgment.

Is basic foundation analysis with liquefaction feasible at this stage? Yes

Determine foundation type and quantities assuming no-liquefaction condition.

No

Determine foundation type and quantities based on analysis

Determine foundation cost increase due to liquefaction based on Table-1 and adjust foundation quantities to reflect this increase.

Submit APS/Quantities to Estimating

End