

2015

Use this section to specify requirements for geotechnical instruments.

Geotechnical instruments must be consistent with those being employed on the Province's other water management infrastructure, and must have a proven record of accuracy, reliability, and longevity. In cases where only a specific instrument from a specific manufacturer may be used, the specifications must clearly indicate that "substitutions are not permitted". Refer to Section 01621 – Product Options and Substitutions. Notwithstanding, instruments should be specified with regard to proper economy. Use of this restriction must be justifiable to a competing supplier. Confirm proposed instruments with Alberta Transportation prior to their use.

Edit this section to suit the Contract requirements.

**Heading of Specification Text****Specification Note**

## Part 1 General

## 1.1 References

[.2.1] &amp; [.3.1]

Co-ordinate with clause 2.1.8, and include as required.

## 1.2 Submittals

.4.4

Edit as required.

## 1.3 Quality Control

## 1.4 Quality Assurance

## 1.5 Delivery, Storage, and Handling

## Part 2 Products

Confirm proposed instrument requirements with Alberta Transportation prior to their use.

## 2.1 Materials

[.2 to .5]

Include and edit requirements for geotechnical instruments as required. Co-ordinate with installation requirements specified in clauses 3.5 to 3.14.

[.7]

Include if required. Provide details on the Drawings.

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**Heading of Specification Text****Specification Note**

[.15]

Include if required, and co-ordinate with clauses 3.5.7 and 3.11.16. Provide details on the Drawings.

## Part 3 Execution

## 3.1 General

## 3.2 [Existing Instrumentation]

Include and edit as required.

## 3.3 Rotary Drilling Equipment

.1

Edit as required.

## 3.4 Protection of Instrumentation

## 3.5 Sequencing and Scheduling of Installation

Add project specific installation scheduling and sequencing requirements for the instruments.

[.2 to .8]

Include and edit as required.

## 3.6 [Installation of Pneumatic Piezometers]

Include, edit, and add requirements as needed.

## 3.7 [Installation of Casagrande Piezometers]

Include, edit, and add requirements as needed.

## 3.8 [Installation of Inclometers]

Include, edit, and add requirements as needed.

## 3.9 [Installation of Liquid Level Settlement Gauges]

Include, edit, and add requirements as needed.

## 3.10 [Installation of Surface Monuments]

Include, edit, and add requirements as needed.

## 3.11 Placement of Instrument Leads

[.6] &amp; [.7]

Include and edit as required.

.16

Edit as required.

[.17]

Include and edit as required.

[.18]

Include and add requirements as needed.

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**Heading of Specification Text**

**Specification Note**

3.12 Tolerances

[.1 to .3]

Include and edit as required.

3.13 Reading of Instruments

.2

Co-ordinate with Section 01775 – Contract Acceptance Procedures.

[3.14] [Instrument Summary]

Either include the Instrument Summary Table A in this section or on the Drawings, but not both.

**END OF COVER SHEET**