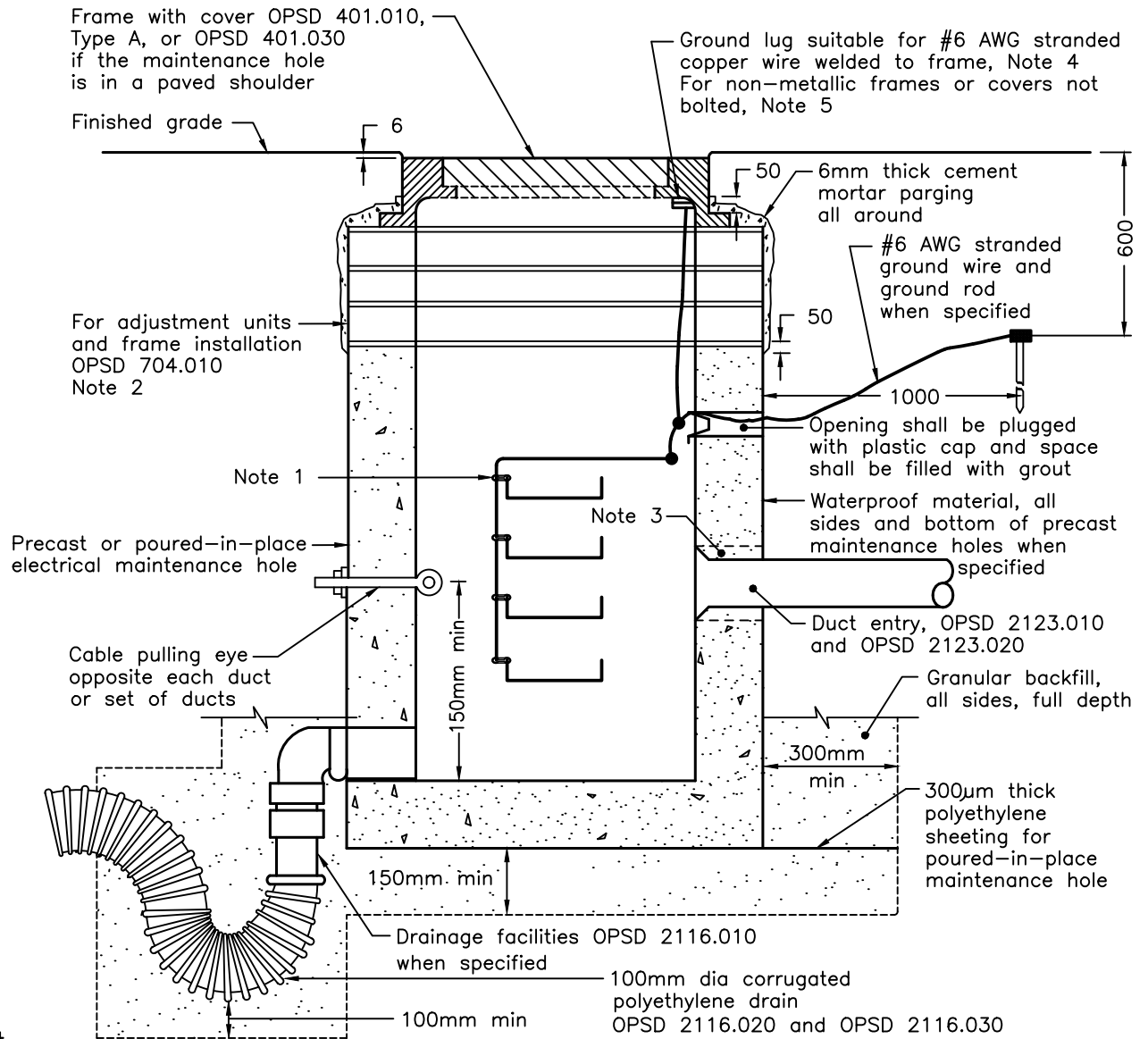



NOTES:

- 1 #6 AWG stranded copper bare wire shall be fastened to steps using single cable to pipe copper ground connectors. The ground connector shall be a copper or copper-alloy saddle. The connector shall be attached to each step in such a way that the ground wire runs perpendicularly to the steps.
 - 2 When specified, a precast concrete cap shall be used to replace the frame with cover and adjustment units.
 - 3 Space surrounding ducts in used openings shall be filled with grout.
 - 4 For maintenance holes with metal frames, ground wire shall be attached to frame using a ground lug suitable for #6 AWG stranded copper wire.
 - 5 For maintenance holes with metal covers and non-metallic frames or maintenance holes with metal covers not bolted to the metal frame, the ground wire shall be attached to the maintenance hole cover using a ground lug suitable for #6 AWG flat braided copper wire with 1m of slack above finished grade.
- A This OPSD shows general equipment only. Refer to other drawings for particular applications.
- B Orient maintenance hole such that the wall with maintenance hole steps is nearest to the travelled roadway, where practical. Orient maintenance hole to accommodate existing ducts both in line and grade. Maintain a maximum 45° skew to existing ducts in line. Where required, cut back duct encasement to 3.0m maximum beyond the maintenance hole and refit duct to proper location.
- C Unused openings shall be filled with grout.
- D All dimensions are in millimetres unless otherwise shown.



ONTARIO PROVINCIAL STANDARD DRAWING		Apr 2019	Rev 1	
ELECTRICAL MAINTENANCE HOLES		-----		
GENERAL INSTALLATION REQUIREMENTS		-----		
OPSD 2117.010				