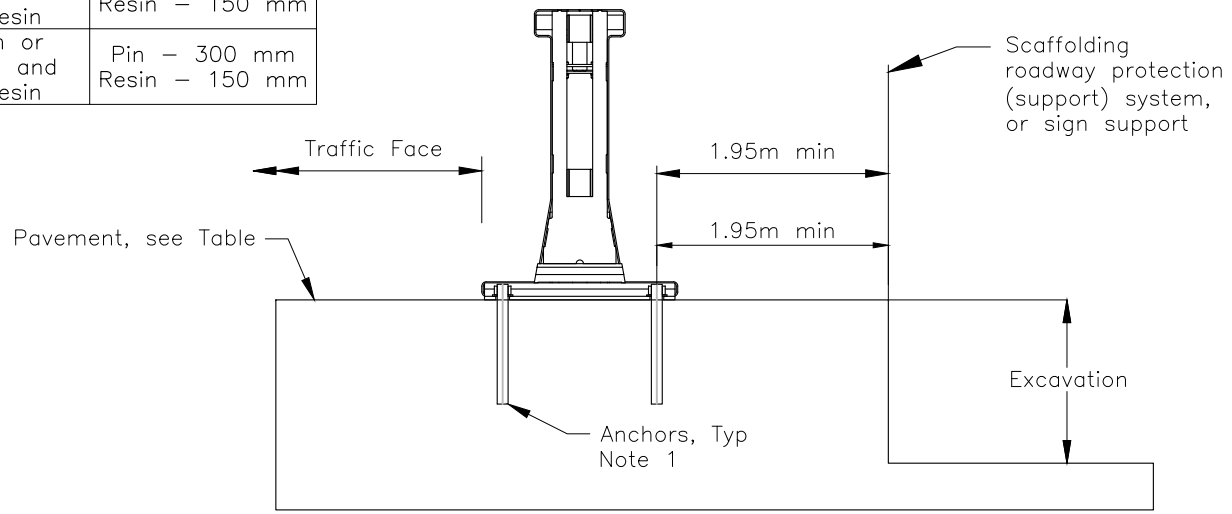
Surface	Surface Thickness Requirements	Anchors	Minimum Embedment
Asphalt	150 mm min	Drop in Pin or Anchor Stud and chemical resin	Pin – 300 mm Resin – 400 mm
Asphalt over compacted granular	50 mm min	Drop in Pin or Anchor Stud and chemical resin	Pin – 300 mm Resin – 400 mm
Asphalt over compacted granular	150 mm min	Road Loc M24 300mm	300 mm
Asphalt over reinforced concrete subbase	50 mm min over 150 mm min	Drop in Pin or Anchor Stud and chemical resin	Pin – 300 mm Resin – 400 mm
Reinforced concrete	200 mm min	Drop in Pin or Anchor Stud and chemical resin	Pin – 300 mm Resin – 150 mm
Nonreinforced concrete	250 mm min	Drop in Pin or Anchor Stud and chemical resin	Pin – 300 mm Resin – 150 mm



END VIEW

NOTES:

1. This installation method shall not be used on bridge superstructures that contain post tensioned tendons within the concrete deck or bridge superstructures with longitudinally prestressed, transversally post tensioned, solid or voided concrete slab units.

A. Anchors shall be according to the manufacturer's specifications and installed to a minimum embedment in Table.

B. MTOD shall be read in conjunction with MTOD 911.570.

C. System configuration meets MTO deflection category I.

D. All dimensions are in millimetres unless otherwise shown.

MINISTRY OF TRANSPORTATION ONTARIO DRAWING	September 2022	Rev	1
GUIDE RAIL SYSTEM, STEEL BARRIER HIGHWAY GUARD INSTALLATION			
	MTOD – 911.571		