

The following is a list of noise-generating construction equipment prepared for the Central Artery/Tunnel (CA/T) project in Boston, Massachusetts, which began in the early 1990s, and similarly may be anticipated for the Bored Tunnel project. The CA/T noise control program developed the Construction Noise Control Specification 721.560, the most comprehensive noise specification ever developed in the United States.

Possible Noise-Generating Construction Equipment

Equipment Description	Impact Device?	Spec. 721.560 Lmax @ 50ft (dBA, slow)
All Other Equipment > 5 HP	No	85
Auger Drill Rig	No	85
Backhoe	No	80
Bar Bender	No	80
Blasting	Yes	94
Boring Jack Power Unit	No	80
Chain Saw	No	85
Clam Shovel (dropping)	Yes	93
Compactor (ground)	No	80
Compressor (air)	No	80
Concrete Batch Plant	No	83
Concrete Mixer Truck	No	85
Concrete Pump Truck	No	82
Concrete Saw	No	90
Crane	No	85
Dozer	No	85
Drill Rig Truck	No	84
Drum Mixer	No	80
Dump Truck	No	84
Excavator	No	85
Flat Bed Truck	No	84
Front End Loader	No	80
Generator	No	82
Generator (<25KVA, VMS signs)	No	70
Gradall	No	85
Grader	No	85
Grapple (on backhoe)	No	85
Horizontal Boring Hydr. Jack	No	80
Hydra Break Ram	Yes	90
Impact Pile Driver	Yes	95
Jackhammer	Yes	85
Man Lift	No	85

Mounted Impact hammer (hoe ram)	Yes	90
Pavement Scarafier	No	85
Paver	No	85
Pickup Truck	No	55
Pneumatic Tools	No	85
Pumps	No	77
Refrigerator Unit	No	82
Rivit Buster/chipping gun	Yes	85
Rock Drill	No	85
Roller	No	85
Sand Blasting (Single Nozzle)	No	85
Scraper	No	85
Shears (on backhoe)	No	85
Slurry Plant	No	78
Slurry Trenching Machine	No	82
Soil Mix Drill Rig	No	80
Tractor	No	84
Vacuum Excavator (Vac-truck)	No	85
Vacuum Street Sweeper	No	80
Ventilation Fan	No	85
Vibrating Hopper	No	85
Vibratory Concrete Mixer	No	80
Vibratory Pile Driver	No	95
Warning Horn	No	85
Welder/Torch	No	73