

- A. Accurately locate and set required sleeves pipe duct. Where more than one pipe is necessarily passed through a single sleeve as to a unit piping enclosure or other conditions resulting in larger than 1/8" gap within the sleeve, tightly pack space with proper material to form a barrier against sound, vermin, fire, etc.

3.5 MACHINERY GUARDS

- A. Provide all belts, couplings, wheels, fan blades and other moving parts of machinery with removable metal guards. Provide tachometer openings for all belt driven or variable speed machinery.

3.6 EXCAVATION, BACKFILLING AND PUMPING

- A. Perform all excavation, backfilling and pumping necessary for the completion of the Work in accordance with the requirements of Excavation and Backfill, Division 2.
- B. Excavate trenches suitable in width to provide a minimum of 6" clear space between the barrel of the pipe and the trench wall on both sides of the pipe. Accurately grade the trench bottom to provide uniform bearing and support for each section of the pipe on undisturbed soil at every point along its entire length. Take care not to excavate below the depth necessary and excavate bell holes to ensure proper bedding. Backfill over-depths with loose, granular, moist material and thoroughly compact to the depth required.
- C. Place and compact backfill material in 6: layers until the pipe has a minimum cover of 12". Place and compact the remaining material in 12" layers. Grade the surface to a reasonable uniformity and leave the mounding in neat condition as approved by the Architect.
- D. Backfill all trenches passing under foundations with concrete to the underside of the foundation and at a 2:1 slope away from each side of the foundation. Backfill all trenches that are parallel and deeper than foundations with concrete to a point that will place the top of the concrete on a 2:1 slope away from the foundation bottom. Do not backfill trenches until all required tests and inspections are completed.
- E. Repair or replace all topsoil, shrubbery, sod, sidewalks, streets, walls, etc. disturbed by the excavation, backfilling or pumping to the satisfaction of the Architect. Repair sidewalks in complete clocks; partial patching will not be accepted.

3.7 FIRESTOPPING

- A. Thoroughly review Architectural plans and provide approved Firestopping at penetration of every fire rated wall, floor or ceiling system.
- B. Refer to Architectural specifications for Firestopping product and installation requirements. In the absence of relevant Architectural specifications, Firestopping shall comply with the requirements of the Authority Having Jurisdiction and the following as minimum:
 - 1. Fire Testing: Provide firestopping assemblies of designs which provide the specified fire ratings