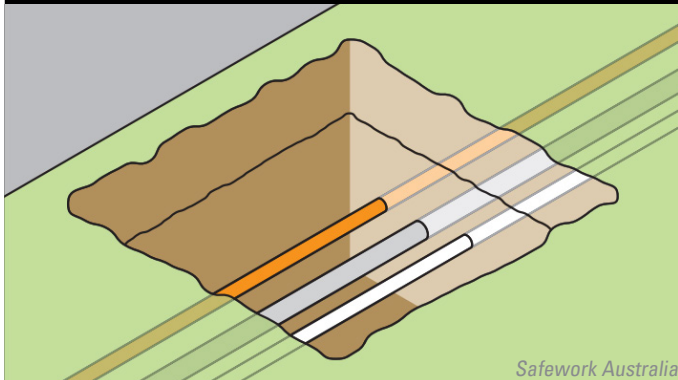


HYER STANDARDS

Ground Works

The Hansen Yuncken HYer Standards provide guidance on the minimum level of compliance expected for high risk activities on all projects.

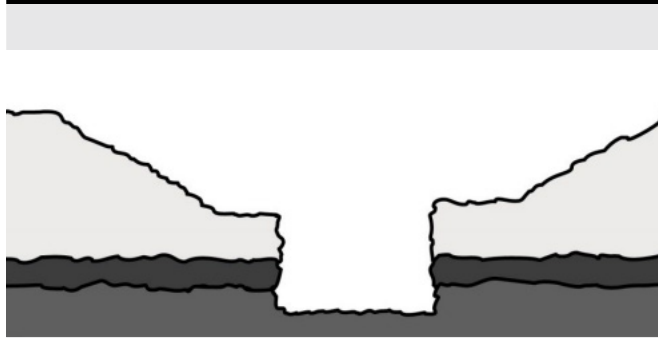
Services



Safework Australia

- Ensure a groundworks permit is issued prior to any ground penetrating or excavation works commencing
- Location of all essential services (underground, adjacent & overhead) are to be positively identified, and where possible, any services in close proximity to the excavation are to be isolated
- Essential services must be protected from mechanical damage

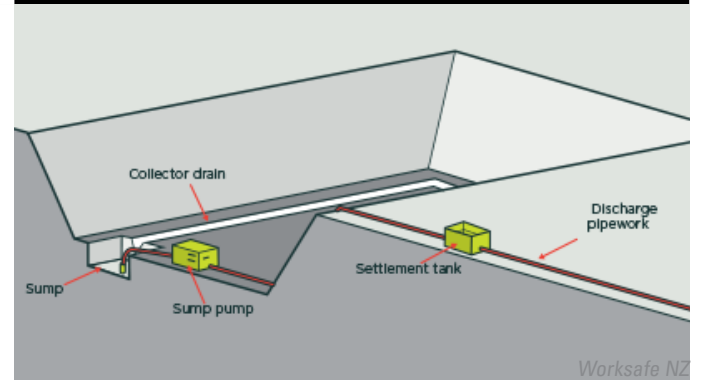
Preventing Instability



Safework Australia

- Controls to ensure the integrity of adjacent buildings/structures must be implemented and maintained (based on engineer's assessment)
- Geotechnical Engineer advice is required wherever there is risk of ground collapse
- Shoring and benching/battering must be implemented as per geotechnical design
- Regular inspections are to be conducted to confirm the excavation's integrity

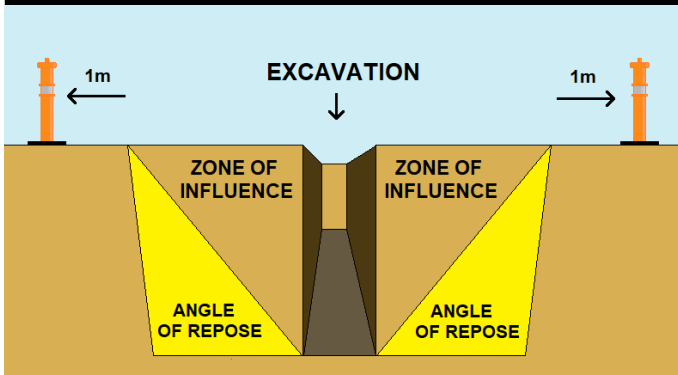
Ingress/Contamination



Worksafe NZ

- Processes must be in place to manage contaminated spoil (e.g. asbestos, hydrocarbons etc.) including preventing exposure to workers
- Risk of atmospheric contamination in excavation must be identified and controlled (including build-up of gases and fumes)
- Possible water sources must be identified and controls are to be implemented

Working Near Excavations



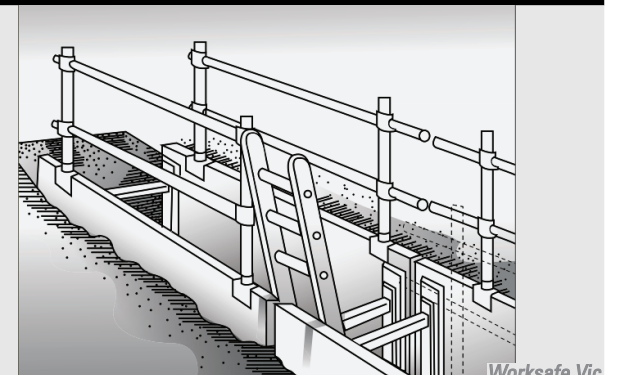
- Plant, materials, and spoil should be excluded from at least 1m beyond the 'zone of influence' of excavations (unless appropriate ground support systems are installed)
- Only plant, equipment, and materials contributing to the excavation works should enter the zone of influence
- Controls ensuring mobile plant maintains a safe distance from live services must be in place (including overhead power lines)
- Barriers are to be used in areas adjacent to excavations with frequent mobile plant or pedestrian movement

Establishing Work Zones



- Work zones preventing unauthorised access to excavation work areas are to be in place
- Site conditions and nature of works are to be considered to determine barrier type:
 - Bunting/flagging, or barrier mesh is suitable for excavations up to 1m deep
 - Crowd control barriers, water-filled barriers, or 1.8m high interlockable hard fencing required for excavations greater than 1m deep
- All barriers must have appropriate signage and be at least 1m from the edge of the excavation (regardless of depth)
- Excavations must be isolated and made safe when not in use and at the end of each day

Deep Excavations



Worksafe Vic

- Signage for excavations >1.5m deep stating "DANGER DEEP EXCAVATION" must be in place
- Safe access/egress into excavations deeper than 1.5m must be provided
- Controls preventing objects from falling on workers in deep excavations must be in place. Controls may include, but are not limited to:
 - Trench box sheets extending beyond the trench depth
 - Covers or guard rails and toe boards installed onto the top of the trench box sheets or into the ground at the top of the trench



WORK DIFFERENTLY
WWW.HYWORKZONE.COM.AU

REV 08 - SEP 2022



**GROUND WORKS
PROCEDURE**