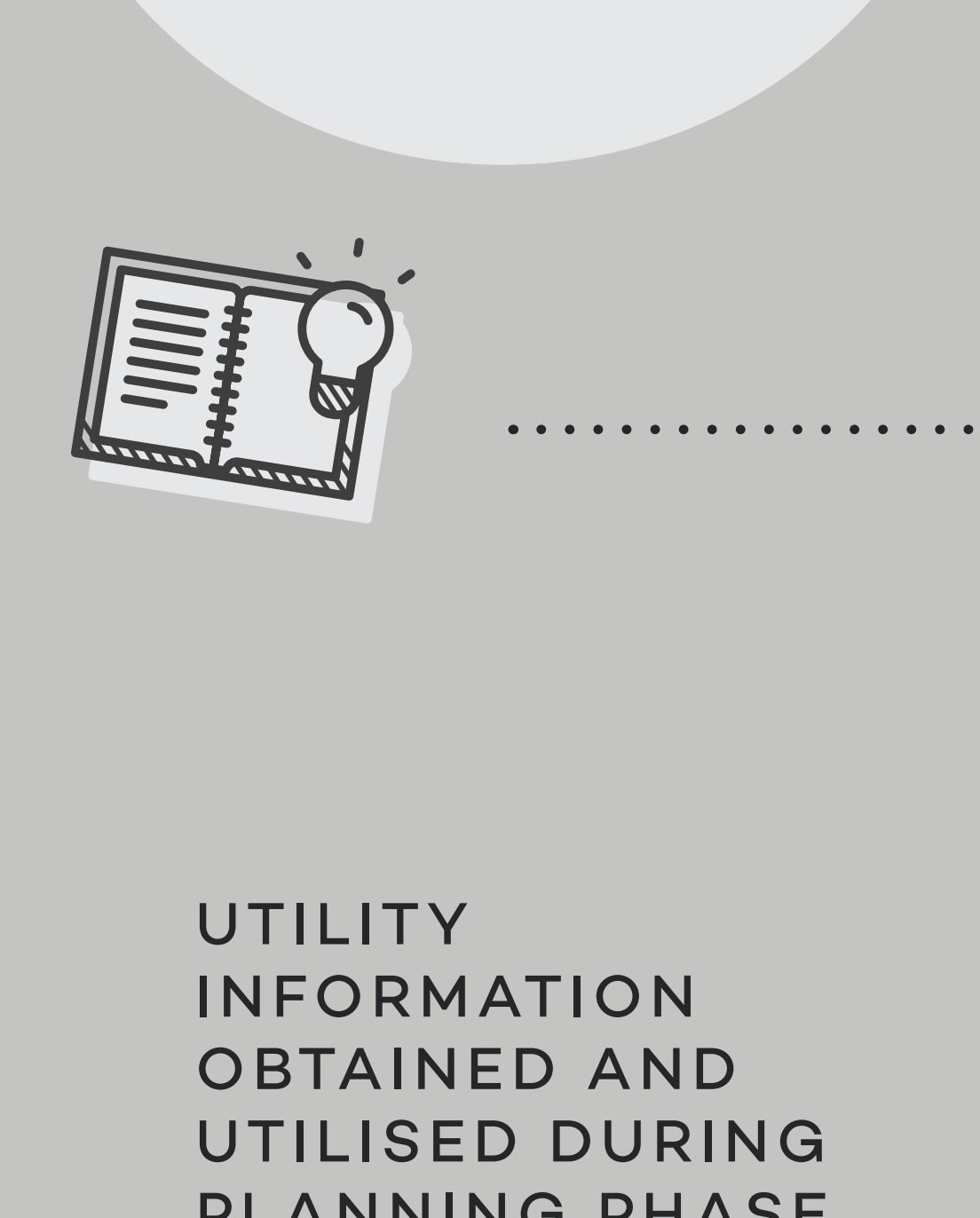
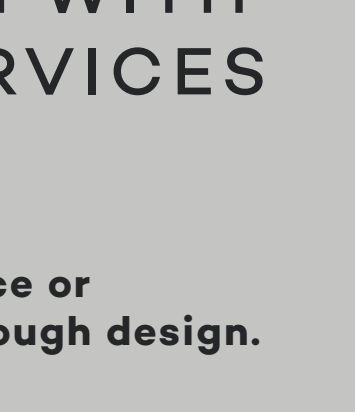


TOOLBOX TALKS

UNDERGROUND UTILITY SERVICE AVOIDANCE

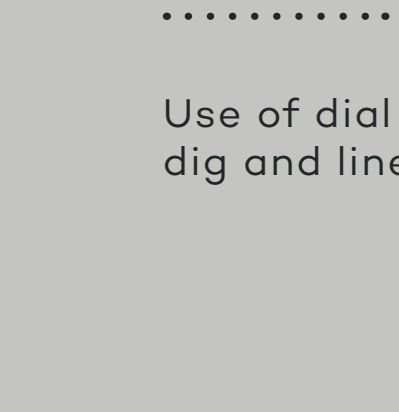


1

DESIGN STRATEGY TO REDUCE INTERACTION WITH EXISTING SERVICES

Hierarchy to avoid, reduce or mitigate interaction through design.

Use of alternative technology e.g. vacuum excavator, air lance/water jetting or trench-less technology



UTILITY INFORMATION OBTAINED AND UTILISED DURING PLANNING PHASE

Use of dial **before** you dig and line search.

2



3

NO PLAN NO DIG EMBEDDED

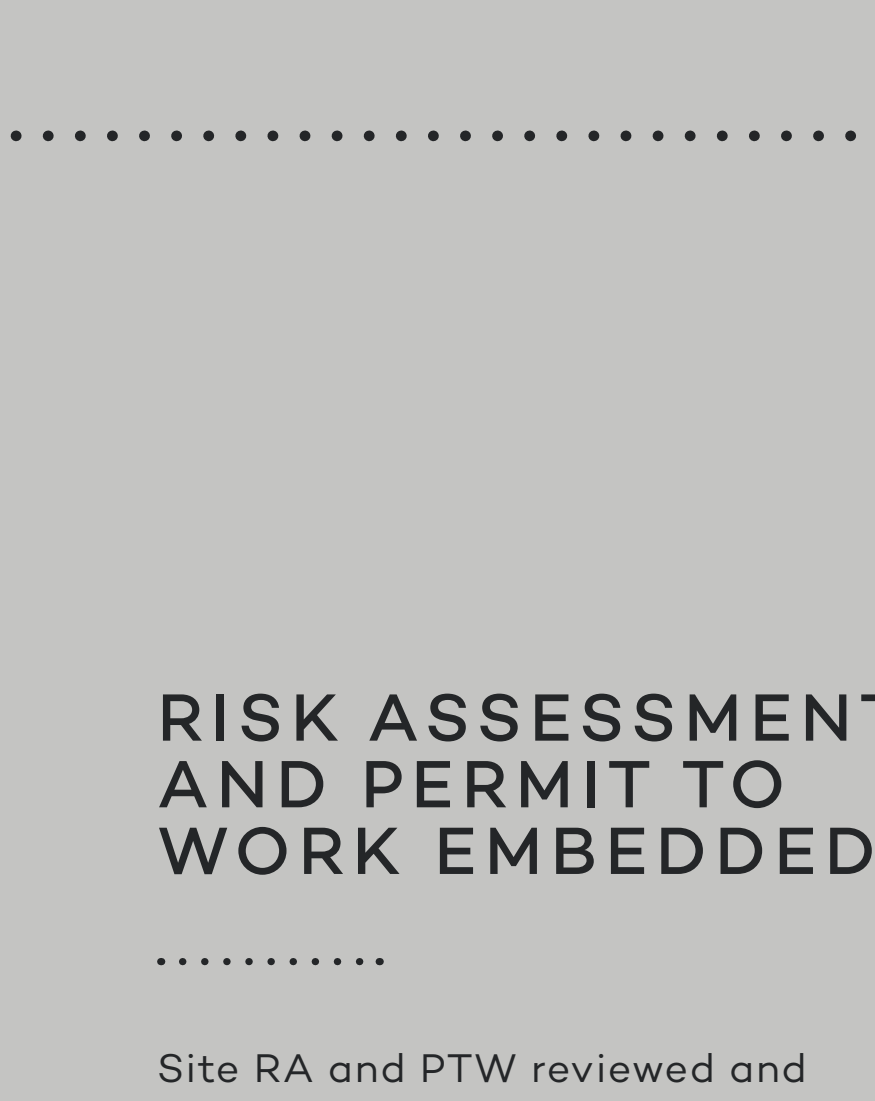
Relevant plans **in colour** and suitable scale provided to dig teams



TEAM COMPETENCY

- Minimum SHEQ Training Matrix
- Awareness for planners
- EUSR Safe Dig & Cable Avoidance
- Competency of Supervisors, Team Leaders & Operatives
- Ongoing assessment.

4

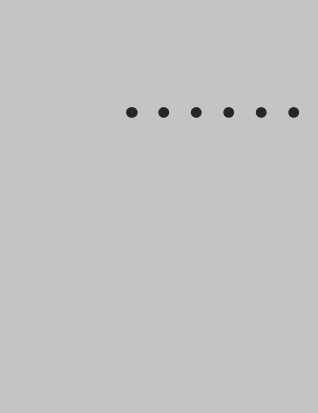


5

RISK ASSESSMENT AND PERMIT TO WORK EMBEDDED

Site RA and PTW reviewed and issued by competent person

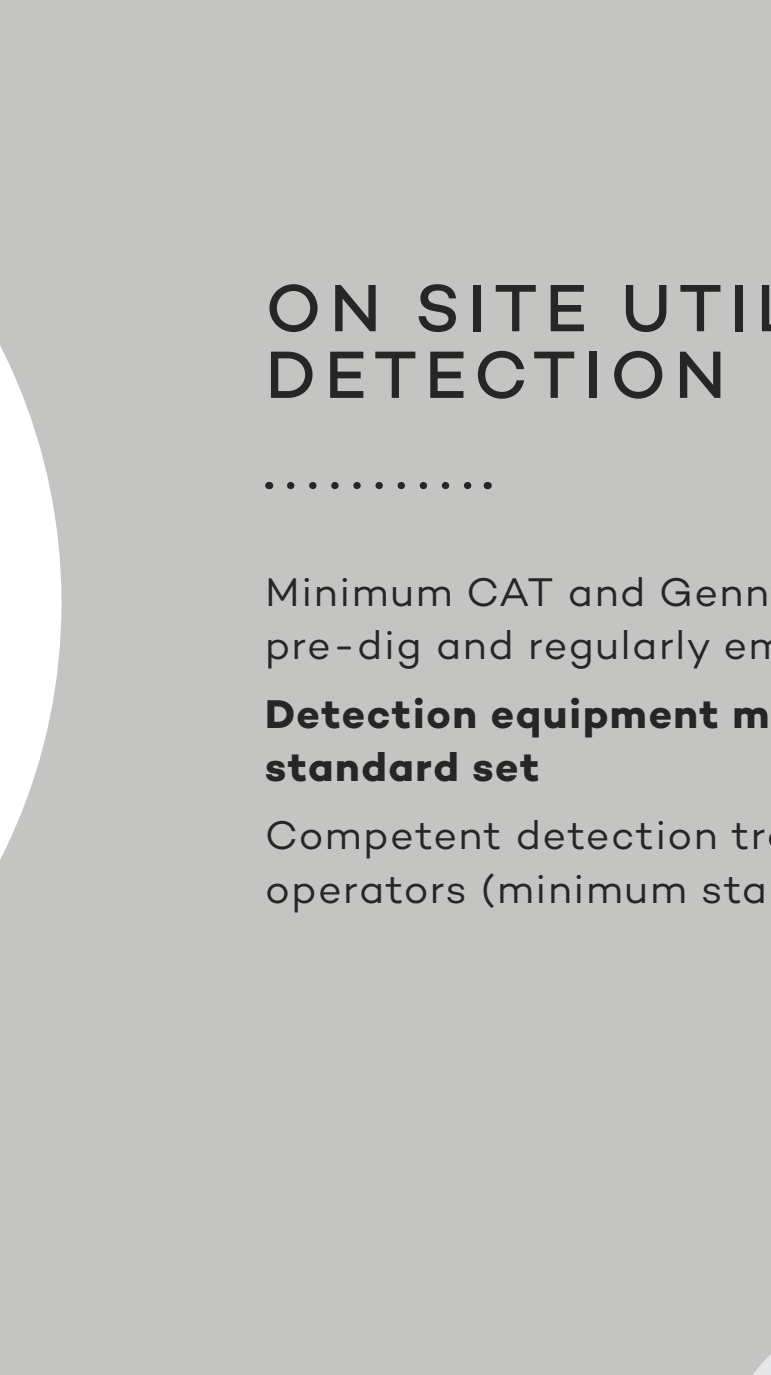
High risk asset owners contacted pre-works.



6

UTILITY SURVEY OR DETECTION BY THIRD PARTY

Use of third party service survey & detection e.g. **Sygma**



7



ON SITE UTILITY DETECTION

Minimum CAT and Genny use pre-dig and regularly embedded

Detection equipment minimum standard set

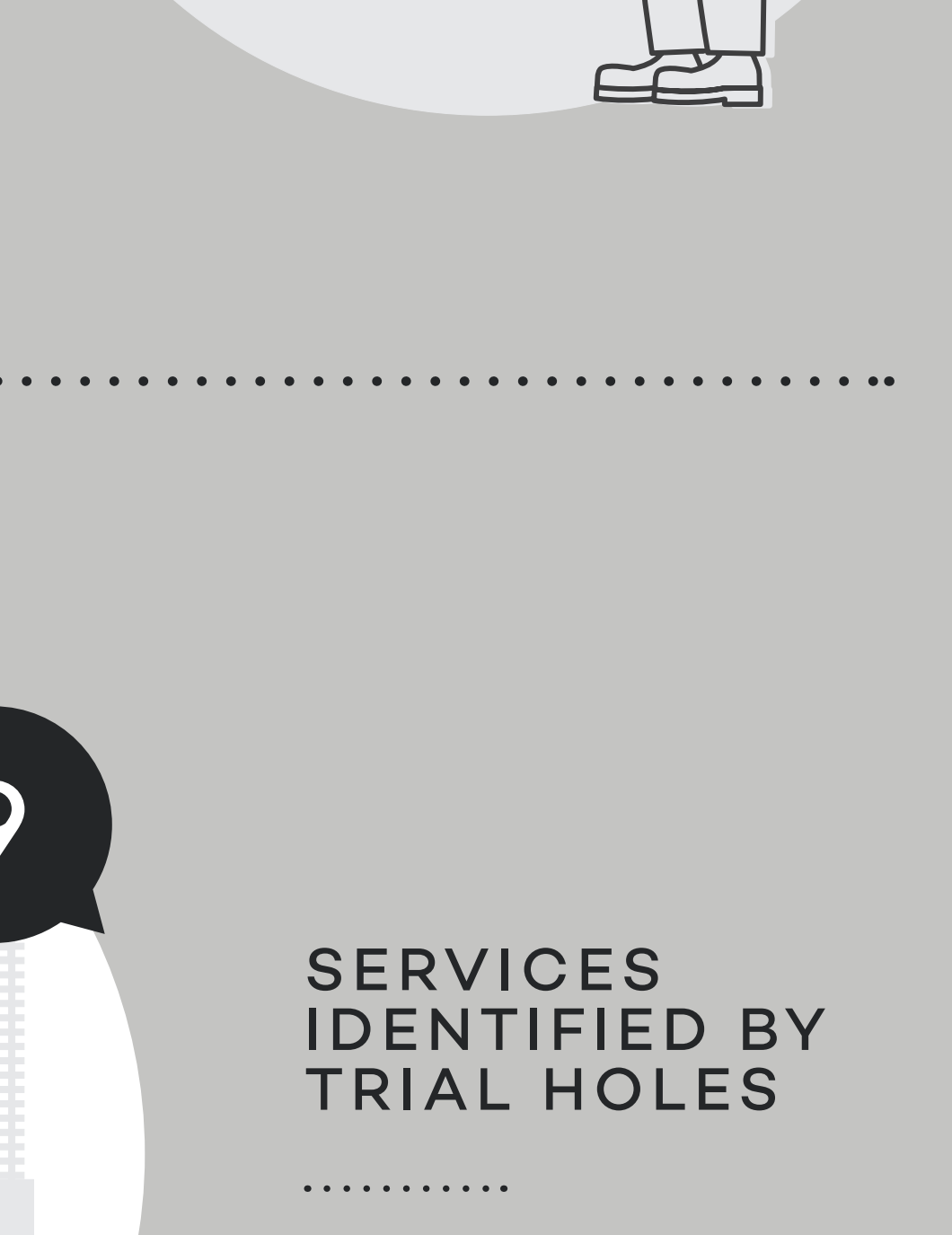
Competent detection trained operators (minimum standard set)



8

CONSISTENT APPROACH TO MARKING UP

Use of template and no **dig zones**

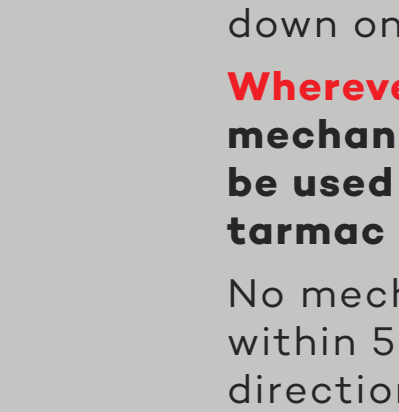


9



SERVICES IDENTIFIED BY TRIAL HOLES

Hand dug trial holes to confirm service location and **hazard zone**



SAFE DIGGING PRACTICES EMPLOYED

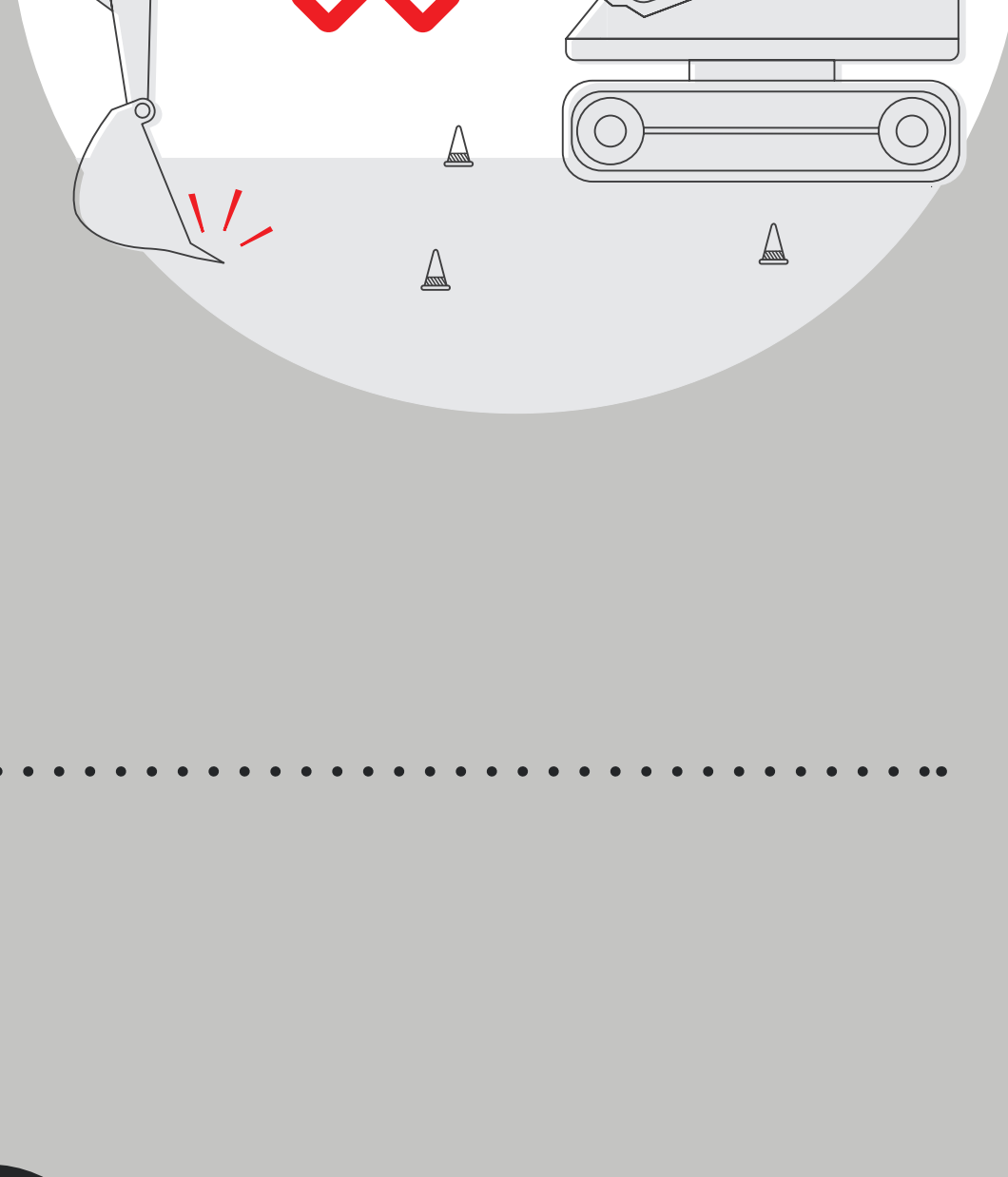
Follow HSG 47 and best practice

E.g. hand digging using insulated tools and horizontal digging to locate/expose service as opposed to excavating down onto service

Wherever practical, mechanical tools only to be used to break surface tarmac or concrete

No mechanical excavation within 500mm in any direction

PPE Minimum Standards implemented



10



PROTECTION & AVOIDANCE OF SERVICE ONCE EXPOSED

Use of protection boards, support and **avoid by distance**



ALL UTILITY DAMAGES INVESTIGATED

- D & A Testing
- Detection Equipment downloaded
- Reviewed by appropriate management seniority level
- Learnings identified and acted upon

12



TOOLBOX TALKS

FOR MORE INFORMATION OR IF YOU HAVE ANY CONCERNS CONTACT YOUR SHEQ DEPARTMENT