

## CIS STANDARD - PERMIT-TO-DIG FORM (CIS-ENG-F003)

This permit applies for all excavation and ground penetration works to a depth greater than 150mm.

This permit must be submitted at least 15 working days prior to the proposed commencement of the excavation.

PART A - PROJECT DETAILS									
Type of Works (tick one)	☐ Project	ı	☐ Planned M	laintenance	□ Emer	gency			
Project Name and Location									
Description of Works (Proposed Service/Size)									
Details of Ground Excavation (Length/Width/Depth)									
Excavation Works Programme	Start date:		End dat	e:					
Head Contractor's Supervisor	Name: Mobile:			Company: Email:					
Sub Contractor's Supervisor	Name: Mobile:			Company: Email:					
University Representative/ Project Manager	Name: Mobile:			Company: Email:					
PART B – EXISTING ASSET IN	VESTIGATION BY CO	ONTRACTO	OR						
Asset investigations must be conduct services, potential risks and site control				n works to identify	existing undergrou	ind assets and			
1. Underground Assets L	ocation Checklist - A	Authority (	Owned Utiliti	es (Dial Before	You Dig Search	۱)			
Utility (include details of owner	Current DBYD plans received & attached (issue date < 30 days)	DBYD plans indicate assets in vicinity	DBYD plans indicate easement in vicinity	Assets verified on site by services locating and visibly marking on ground	Asset owner requires pot holing due to proximity of works to existing infrastructure	Asset owner requires on site presence during excavation works			
Electricity (e.g. Ausgrid)	□ Yes □ No	□ Yes □ No	□ Yes □ No	□ Yes □ No	□ Yes □ No	□ Yes □ No			
Gas (e.g. Jemena, AGL)	□ Yes □ No	□ Yes	□ Yes	□ Yes □ No	□ Yes □ No	□ Yes □ No			
Water (e.g. Sydney Water, Coun	cil)	□ Yes	□ Yes □ No	□ Yes □ No	□ Yes □ No	□ Yes □ No			
Sewer (e.g. Sydney Water, Coun	ncil)	□ Yes □ No	□ Yes □ No	□ Yes □ No	□ Yes □ No	□ Yes □ No			
Stormwater (e.g. Sydney Water)	☐ Yes☐ No	□ Yes □ No	□ Yes □ No	□ Yes □ No	□ Yes □ No	□ Yes □ No			
Communications (e.g. Telstra, Optus)	□ Yes □ No	□ Yes □ No	□ Yes □ No	□ Yes □ No	□ Yes □ No	□ Yes □ No			
Traffic Signals (e.g. RMS/Counc	cil)	□ Yes	□ Yes	□ Yes	□ Yes □ No	□ Yes □ No			

Street Lighting (RMS/Counc	il)	☐ Yes ☐ No		∣Yes ∣No	☐ Yes	3	☐ Yes	6	☐ Yes ☐ No		Yes No
Other		□ Yes □ No		Yes No	☐ Yes	•	☐ Yes	5	□ Yes		Yes No
Underground Asse     This information must be ob				_	_	_	wned L	Itilities			
Utility			Current University utility plans received and attached	University plans	indicate assets in vicinity	Assets verified on	site by services locating and visibly	University requires	pot holing due to proximity of works to existing infrastructure (1)	University requires	on site presence during excavation works (1)
Electricity			Yes No	O Y		01		01			
Gas			Yes No	O Y	es	10	⁄es	01	′es		es
Water			Yes No	O Y						□ Y€	
Sewer		_	Yes No	□ Y □ N				01		□ Ye	
Stormwater Drainage			Yes No	□ Y □ N		   		0 1		□ Ye	
Communications			Yes No	□ Y □ N				0 1		□ Ye	
Street Lighting			Yes No	□ Y				01		□ Ye	
Irrigation			Yes No	O Y						□ Ye	
Decommissioned Services			Yes No	O Y				_ N		□ Ye	
Other			Yes No	O Y						□ Ye	-
Note 1: Details of when the Ustrict accordance with Table I Form)											
3. Other Assets in Vic	inity										
Trees and Tree Roots	□ Yes □ No	Adjace Structu	nt Buildir ıres	ngs and				Overh	ead Powerlin	es	□ Yes □ No
Chemical Stores	□ Yes □ No	Petrole	um Servi	ces		\ 			/undergroun e Tanks	d	□ Yes
	□ Yes □ No					   					□ Yes
PART C - POTENTIAL WOR	RKS HAZAI	RDS (otl	ner than t	hose lis	ted in F	Part E	3)				
The following additional hazards	have been id	lentified fo	or the propo	sed worl	ks and in	corpoi	rated into	the ex	cavation works	plan	
Slips, Trips and Falls	□ Yes □ No	Excava	tion Colla	apse		_ \ 				☐ Yes ☐ No	
Difficult Excavation Access and Egress	□ Yes □ No	Vibratio	on							□ Yes □ No	
Manual Handling	□ Yes	Soil Co	ontaminar	nts				Excava	ation Floodir	ng	□ Yes
Heavy Machinery	☐ Yes	Airborne Contaminants					Hot W	orks		☐ Yes	

Unauthorised Access to Excavation Site	□ Yes □ No	Noise	□ Yes □ No	Accumulation of Dangerous Gases in Excavation	□ Yes □ No				
Confined Space	□ Yes		□ Yes □ No		□ Yes				
PART D – SITE CONTROLS REQUIRED BY CONTRACTOR									
The following site controls are required for the excavation works plan to avoid/mitigate hazards identified in Parts B and C.									
Are all directives of asset owners been complied with?  (This includes but is not limited to any site survey requirements prior to excavation and on site supervision during all excavation works)									
Is a traffic/pedestrian contro	ol plan dev	veloped by an RMS-accredited p	erson requ	uired?	□ Yes				
(If yes, a traffic/pedestrian manag	jement plan	needs to be submitted with this permit)			□ No				
Are services isolations requ (If yes, a services isolation plan n adopted during outage)		ne excavation works?	oroposed ou	tage period and controls to be	☐ Yes ☐ No				
		wered excavation works in acco Assets Guide 2007 (See Attachm			□ Yes				
(This includes incorporation of ad excavation works plan)	equate clea	rances, no go zones and controls such	as pot holin	g and spotters, into the					
Are all persons appropriately trained and competent to perform their task?  (This includes site specific inductions and information relating to the visible ground markings of existing underground services in the vicinity of the excavation together with the controls and clearances required for powered excavation works)									
Are barricades, fencing, road plates, signage proposed to prevent unauthorised access to the excavation site and to protect persons working in the vicinity of the excavation?									
(If yes, a fencing, hoarding and si	gnage plan	must be submitted)							
PART E - SURFACE REINS	TATEMEN	T AND BACKFILLING (also refer	to CIS Ex	cavation Standard)					
The following items must be incor	porated into	a surface reinstatement and backfilling	g plan.						
Existing surfaces affected b	y excavat	ion shown on plan			□ Yes				
Designated safe stockpiling	areas for	excavated materials			□ Yes				
Confirmation of proposed e	nd-use of	excavated material			□ Yes □ No				
		ng excavation works must be sur NZS 5488 to Quality Level A and			☐ Yes ☐ No				
		tion works must be documented I included in work as executed d		ackfilling in accordance	□ Yes □ No				
Full details of all backfilling Standards.	materials	together with compaction detail	s in comp	liance with CIS Excavation	□ Yes □ No				
		provided, including details of the is indicating the extent of the res		or performing the works,	□ Yes □ No				
PART F - ATTACHED DOCU	JMENTS								
_		with this Permit for Ground Excavation/							
WARNING! The Dermit will not be	a nracecad	without these documents being attach	ad						

Consolidated, coordinated construction plans showing proposed works including location of existing underground assets, surfaces affected, stockpile areas, backfilling specifications and extent of surface reinstatement details.							
Risk assessments, Safe work Method Statements (SWMS) and Safety Management Plans addressing the hazards identified in Parts B & C and the site controls required under Part D							
Evidence that the contractor Certificate?	or responsible for the wo	rks has \$20 million Public	Liability Insurance	□ Yes □ No			
Evidence that the contractor	or responsible for the wo	rks has adequate Workers	Compensation Insurance?	□ Yes □ No			
Surface Backfilling and Re	instatement Plan			☐ Yes ☐ No			
Part D may require the following	documents with the Permit for	r Ground Excavation/Penetration	1				
Traffic/pedestrian control բ	olan provided by an RMS	-accredited person		□ Yes □ No			
Services Isolation Plan				□ Yes			
Fencing, Hoarding and Sig	nage Plan			□ Yes			
PART G - CONTRACTOR A	ACKNOWLEDGEMENT AN	ND AUTHORISATION		1 = 112			
The information contained in this the excavation works. The Head hazards are identified adequatel	Contractor and all Sub Contra	actors working on the excavation	site are responsible and liable to	o ensure all			
attachments indicated in th	The proposed excavation works have been assessed as safe if performed in accordance with all conditions and attachments indicated in this permit. Persons working under this permit have been instructed about site control measures to be implemented and supervision is in place to ensure the control measures identified in this permit will be complied with.						
Company	Name	Title	Signature	Date			
Sub Contractor		Site Supervisor					
Sub Contractor		Project Manager					
Head Contractor		Site Supervisor					
Head Contractor		Project Manager					
The Head Contractor must completion of subsequent			Sydney Project Manager for				
PART H - UNIVERSITY AU	THORISATION						
1. Project manager c	heck and review						
The assigned University Pradequate Risk Analysis an and is attached to the pern	d Site Controls have been	n incorporated and all requ					
Company	Project Manager Name Signature Date						
2. Internal stakehold	er review						
The information contained the area of responsibility in		reviewed and assessed by	the following persons with	regards to			
Area of Responsibility	Name	Title	Signature	Date			
CIS Underground Services Information							

CIS Hydraulic Services									
CIS Electrical Services									
ICT Communications									
CIS WHS									
CIS Traffic and Parking									
CIS Grounds									
CIS Precinct Manager									
3. Project manager re	ecommendation								
The assigned University Produced Risk Analysis recommended.									
Company	Project Manager Name		Signature	Date					
4. Director CIS Autho	prisation								
Excavation work for this printering information supplied on the		mmence. All works must be	e performed in accordance	with the					
Name	Title		Signature	Date					
WARNING!									
Excavation work must be sus incident immediately reported			injured or if assets are dama	iged and the					
	A copy of this permit must be kept by Head Contractor on site.								

## ATTACHMENT 1 TYPES OF ASSETS AND LIMITS OF UNDERGROUND APPROACH (Source: Table B of the WorkCover Work Near Underground Assets Guide 2007)

Assets	Clearances	No Go Zone For Powered Excavation	Controls	Typical Depths
Types of underground assets  (Note: The owners of assets registered with the Dial Before You Dig service and covered by this Guideline require an enquiry through this free service and the compliance with any directive issued with information regarding the asset)	The minimum approach distance for individuals carrying out work near underground assets	Distance 'B' is the minimum approach distance for powered excavating machines  For directional boring across the line of an asset a minimum clearance of 300 mm from the asset shall be maintained  For directional boring parallel to the asset and at the level of the asset, a clearance of 500 mm shall be maintained from the edge of the nearest asset. It may be necessary to dig trial holes to prove the location of the nearest asset at points along the route. See Section 6.10	If the risk assessment identifies a potential risk of making contact with both underground and overhead assets, two safety observers would be required. One observer to ensure that the machinery maintains a safe distance from underground assets, the other observer to ensure a safe distance from the overhead powerlines  In the case of gas or electricity assets, an appropriate fire extinguishing system must be at the worksite  If the width and/or depth of the excavation will expose the asset, the asset owner must be contacted prior to commencing work	

Assets	Clearances	No Go Zone For Powered Excavation	Controls	Typical Depths
Low and Medium Pressure services	N/A	300 mm	Pot-hole to confirm location of service	300 – 450 mm
and			The position of the asset will not appear on	
Low pressure mains			the maps	
Medium Pressure mains	N/A	300 mm	Pot-hole to confirm location of asset  The code of practice for shafts, tunnels and trenches, and the guide to dangers of poorly ventilated workplaces  Only one individual at a time should be excavating if hand excavation is being undertaken in a confined space. Another should act as an observer and be able to operate any breathing, escape or fire equipment required  The elimination of an ignition source in the event of an escape  Excavation below underground assets should not be undertaken within a distance of 300 mm below the asset located at the lowest level  Note: All transmission pipelines involving gas, oil and petrochemical have separate requirements and the asset owners should be contacted.	450 – 750 mm

Assets	Clearances	No Go Zone For Powered Excavation	Controls	Typical Depths
High Pressure services, mains and pipelines	300 mm with hand tools and supervision from Network Authority	1000 mm	Powered excavation within 300 – 1000 mm is only permitted under supervision and with a Permit to Work from Asset Owner  Also see Controls for medium pressure mains immediately above	750 – 1200 mm
Low Voltage Electricity cables – voltages less than or equal to 1000V (1kV)	Close proximity with use of hand tools	300 mm	Must contact asset owner for specific conditions	450 – 750 mm
Electricity conductors from 11,000V (11kV) up to 33,000V (33kV)	Close proximity with use of hand tools	600 mm	Must contact asset owner for specific conditions	900 mm
Underground sub-transmission cables 33,000V up to 132,000V (132kV)	Must contact asset owner	Must contact asset owner	Must be carried out under the supervision of the asset owner	900 mm
High Voltage Electricity cables – voltages from 1000V (1kV) up to 33kV	Close proximity with use of hand tools	Must contact asset owner	Must contact asset owner for specific conditions	600 – 1000 mm
Extra High Voltage Electricity Transmission cables – voltages above (132kV) and 330,000V (330kV)	Must contact asset owner	Must contact asset owner	Work must be carried out under the supervision of the asset owner	800 – 1200 mm
Telecommunications cables	Contact asset owner for specific conditions	Contact asset owner for specific conditions	Must contact the asset owner for specific conditions	Typically 450 – 600 mm, other assets to 1200 mm
Water pipelines	N/A	300 mm (if pipeline is 200 mm or greater in diameter)	Pot-hole to confirm location of asset	Min 450 mm
Sewerage pipelines	N/A	300 mm (if pipeline is 200 mm or greater in diameter)	Pot-hole to confirm location of asset	Between 600 mm to 10 (ten) metres