

Infrastructure Advisory Standard Commercial Framework

Consultants in Construction up to \$9 Million
Scheme SCM1191

Effective 1st November 2022


Commercial in Confidence

Infrastructure Advisory Standard Commercial Framework Overview

There are 3 key elements and 3 enablers under the Infrastructure Advisory Standard Commercial Framework

	Commercial Framework	Description
Key Elements	Capped Daily Resource Rates	Maximum Daily Rates per Service and Resource Type
		Daily rate capped on the basis of standard 8-hour day
	Discount Structure	Volume discounts based on contract value (including variations)
		Discounts applicable to secondments where NSW Government uses IA services to augment current teams
	Expenses Policy	Defined standards on what expenses are billable
		Standard cap on disbursements as a percentage of total engagement cost
Enablers	Resource Type	NSW Government standard 7 resource type definitions for Infrastructure Advisory Services. Suppliers are to provide rates as per NSW Government resource type definition guide.
	Service Type	NSW Government standard 55 service type definitions for Infrastructure Advisory Services
	Resource Mix Guide	Provides resource mix guidance to all IA buyers and suppliers

Resource Type and Definitions Guide

NSW Government has set standard industry based Resource Types to ensure like-for-like comparison of resources and rates across supplier responses

Resource Type	Description	Minimum years of relevant experience
Graduate / Analyst	Performs data gathering and analysis with technical skills. Low level of industry knowledge. Works under supervision by more senior team members.	0-2
Professional / Consultant	Higher level technical skills, broader experience base, business process & industry knowledge. Requires limited supervision and may lead analyst/ graduate.	2-4
Senior Professional / Senior Consultant	Field team leadership role, moderate level of technical and subject matter expertise. Further competencies include critical thinking and comms skills and ability to lead simple engagements	4-8
Associate / Manager	Junior management level, specialist technical and subject matter expertise; leads more complex engagements and manages assignment schedules and resource allocation. Ability to lead at client meetings and choose an appropriate solution in responding to a client's needs. Authors proposals and pitches.	8+
Principal / Senior Manager	Senior employee with significant specialist expertise and team leadership capabilities. Practice lead with project management, consulting and facilitation skills and high quality written comms skills including proposals, reports, contractual letters and project plans.	10+
Senior Principal / Director	Management member and experienced practitioner within the industry. Provides strategic and technical advice and leads technical teams. Key in sales activity and client relationship management Alternately: SME / Domain expert with deep technical skills but limited leadership responsibility	15+
Executive/ Partner	Senior Management member and highly experienced practitioner with a broad range of experience within the industry. Provides strategic advice and manages overall commercial strategy. Manages senior client relationships at a strategic level.	15+

Capped Daily Resource Rates (1/5)

Maximum recommended capped daily resource rates applicable to Scheme SCM1191

Consultants in Construction up to \$9 million Scheme SCM1191 Work Category	Consultants in Construction up to \$9 million Scheme SCM1191 Work Type	Infrastructure Advisory Service Type	NSW Government Resource Types and Maximum Capped Daily Resource Rates (excl GST)						
			Graduate / Analyst	Professional / Consultant	Senior Professional / Senior Consultant	Associate / Manager	Principal / Senior Manager	Senior Principal / Director	Executive/ Partner
Management	Project director	Program and Project Management	\$1,080	\$1,360	\$1,500	\$1,650	\$1,890	\$2,070	\$2,410
		Service Strategy and Planning	\$1,085	\$1,340	\$1,750	\$2,100	\$2,600	\$3,000	\$3,600
		Business Case and Economics	\$1,085	\$1,340	\$1,750	\$2,100	\$2,600	\$3,000	\$3,600
	Project manager planning and delivery - health infrastructure	Program and Project Management	\$1,080	\$1,360	\$1,500	\$1,650	\$1,890	\$2,070	\$2,410
		Project Control and Scheduling	\$1,100	\$1,300	\$1,500	\$1,690	\$1,890	\$2,090	\$2,430
		Service Strategy and Planning	\$1,085	\$1,340	\$1,750	\$2,100	\$2,600	\$3,000	\$3,600
		Project Governance	\$1,040	\$1,230	\$1,620	\$1,910	\$2,150	\$2,430	\$2,920
		Design Management	\$760	\$870	\$1,270	\$1,610	\$1,880	\$2,120	\$2,300
	Project management	Program and Project Management	\$1,080	\$1,360	\$1,500	\$1,650	\$1,890	\$2,070	\$2,410
		Project Control and Scheduling	\$1,100	\$1,300	\$1,500	\$1,690	\$1,890	\$2,090	\$2,430
		Project Governance	\$1,040	\$1,230	\$1,620	\$1,910	\$2,150	\$2,430	\$2,920
		Design Management	\$760	\$870	\$1,270	\$1,610	\$1,880	\$2,120	\$2,300

For the Capped Daily Resource Rates and Definitions of all 55 Infrastructure Advisory Service Types, please refer to the Infrastructure Advisory Services category page on [buy.nsw](https://buy.nsw.gov.au)

Capped Daily Resource Rates (2/5)

Maximum recommended capped daily resource rates applicable to Scheme SCM1191

Consultants in Construction up to \$9 million Scheme SCM1191 Work Category	Consultants in Construction up to \$9 million Scheme SCM1191 Work Type	Infrastructure Advisory Service Type	NSW Government Resource Types and Maximum Capped Daily Resource Rates (excl GST)						
			Graduate / Analyst	Professional / Consultant	Senior Professional / Senior Consultant	Associate / Manager	Principal / Senior Manager	Senior Principal / Director	Executive / Partner
Planning	Value management facilitators	Communication and Stakeholder Engagement	\$890	\$1,210	\$1,510	\$1,810	\$2,100	\$2,390	\$2,670
	Town planning	Service Strategy and Planning	\$1,085	\$1,340	\$1,750	\$2,100	\$2,600	\$3,000	\$3,600
		Urban Design	\$910	\$1,170	\$1,480	\$1,730	\$2,080	\$2,290	\$2,520
	Quantity surveying	Cost Modelling and Planning	\$1,050	\$1,250	\$1,700	\$2,100	\$2,550	\$2,900	\$3,400
	Compliance and certification	Compliance and Assurance	\$960	\$1,210	\$1,470	\$1,800	\$2,010	\$2,520	\$2,940
	Compliance and certification	Independent Certification and Site Surveillance	\$1,280	\$1,600	\$2,010	\$2,310	\$2,720	\$2,920	\$3,220
	Land Surveying	Land Surveying / Spatial	\$1,040	\$1,250	\$1,460	\$1,630	\$1,850	\$2,030	\$2,470
	Property Assessment Surveys and Detailed Property Assessment Surveys	Asset Inspection	\$1,010	\$1,260	\$1,560	\$1,860	\$2,140	\$2,460	\$2,840
BCA and Access Consultants	Compliance and Assurance	\$960	\$1,210	\$1,470	\$1,800	\$2,010	\$2,520	\$2,940	
Engineering	Geotechnical engineering	Geotechnical Engineering and Hydrology	\$980	\$1,220	\$1,460	\$1,710	\$2,000	\$2,360	\$2,630

For the Capped Daily Resource Rates and Definitions of all 55 Infrastructure Advisory Service Types, please refer to the Infrastructure Advisory Services category page on [buy.nsw](https://buy.nsw.gov.au)

Capped Daily Resource Rates (3/5)

Maximum recommended capped daily resource rates applicable to Scheme SCM1191

Consultants in Construction up to \$9 million Scheme SCM1191 Work Category	Consultants in Construction up to \$9 million Scheme SCM1191 Work Type	Infrastructure Advisory Service Type	NSW Government Resource Types and Maximum Capped Daily Resource Rates (excl GST)						
			Graduate / Analyst	Professional / Consultant	Senior Professional / Senior Consultant	Associate / Manager	Principal / Senior Manager	Senior Principal / Director	Executive / Partner
Engineering	Civil engineering	Civil Engineering	\$1,120	\$1,370	\$1,620	\$1,830	\$2,120	\$2,390	\$2,650
	Structural engineering	Structural Engineering	\$950	\$1,220	\$1,610	\$1,990	\$2,370	\$2,750	\$3,140
	Electrical - building	Electrical Engineering	\$1,050	\$1,400	\$1,790	\$2,110	\$2,420	\$2,730	\$3,150
	Mechanical - building	Mechanical Engineering	\$1,050	\$1,580	\$1,890	\$2,330	\$2,520	\$2,840	\$3,120
	Acoustic Engineers	Acoustics and Vibration	\$1,000	\$1,130	\$1,480	\$1,660	\$1,890	\$2,440	\$2,920
	Façade	Structural Engineering	\$950	\$1,220	\$1,610	\$1,990	\$2,370	\$2,750	\$3,140
	Hydraulic - incl. town gas, LPG and fire services	Hydraulics Services	\$1,120	\$1,370	\$1,620	\$1,830	\$2,120	\$2,390	\$2,650
	Fire services - sprinklers	Fire Services	\$980	\$1,280	\$1,570	\$1,770	\$2,100	\$2,340	\$2,740
	Fire Safety Engineering	Fire Services	\$980	\$1,280	\$1,570	\$1,770	\$2,100	\$2,340	\$2,740
	Traffic and transport engineering	Traffic and transport engineering		\$980	\$1,320	\$1,790	\$2,070	\$2,390	\$2,680
Traffic Modelling			\$970	\$1,100	\$1,430	\$1,710	\$1,980	\$2,290	\$2,620

For the Capped Daily Resource Rates and Definitions of all 55 Infrastructure Advisory Service Types, please refer to the Infrastructure Advisory Services category page on [buy.nsw](https://buy.nsw.gov.au)

Capped Daily Resource Rates (4/5)

Maximum recommended capped daily resource rates applicable to Scheme SCM1191

Consultants in Construction up to \$9 million Scheme SCM1191 Work Category	Consultants in Construction up to \$9 million Scheme SCM1191 Work Type	Infrastructure Advisory Service Type	NSW Government Resource Types and Maximum Capped Daily Resource Rates (excl GST)						
			Graduate / Analyst	Professional / Consultant	Senior Professional / Senior Consultant	Associate / Manager	Principal / Senior Manager	Senior Principal / Director	Executive / Partner
Engineering	Electrical and electronics engineering	Electronic and Communication Systems Engineering	\$1,050	\$1,540	\$1,840	\$2,020	\$2,240	\$2,520	\$3,020
		Electrical Engineering	\$1,050	\$1,400	\$1,790	\$2,110	\$2,420	\$2,730	\$3,150
Architectural	Architectural - General	Architecture	\$1,190	\$1,320	\$1,520	\$1,840	\$2,080	\$2,290	\$2,520
	Architectural - Health	Architecture	\$1,190	\$1,320	\$1,520	\$1,840	\$2,080	\$2,290	\$2,520
	Architecture Planning and Delivery - Health Infrastructure	Architecture	\$1,190	\$1,320	\$1,520	\$1,840	\$2,080	\$2,290	\$2,520
	Architectural - Education Primary and Secondary	Architecture	\$1,190	\$1,320	\$1,520	\$1,840	\$2,080	\$2,290	\$2,520
	Architectural - Education Tertiary	Architecture	\$1,190	\$1,320	\$1,520	\$1,840	\$2,080	\$2,290	\$2,520
	Architectural - Correctional	Architecture	\$1,190	\$1,320	\$1,520	\$1,840	\$2,080	\$2,290	\$2,520
	Architectural - Heritage	Architecture	\$1,190	\$1,320	\$1,520	\$1,840	\$2,080	\$2,290	\$2,520
		Archaeology and Heritage	\$1,010	\$1,200	\$1,600	\$2,000	\$2,390	\$2,630	\$3,150

For the Capped Daily Resource Rates and Definitions of all 55 Infrastructure Advisory Service Types, please refer to the Infrastructure Advisory Services category page on [buy.nsw](http://buy.nsw.gov.au)

Capped Daily Resource Rates (5/5)

Maximum recommended capped daily resource rates applicable to Scheme SCM1191

Consultants in Construction up to \$9 million Scheme SCM1191 Work Category	Consultants in Construction up to \$9 million Scheme SCM1191 Work Type	Infrastructure Advisory Service Type	NSW Government Resource Types and Maximum Capped Daily Resource Rates (excl GST)						
			Graduate / Analyst	Professional / Consultant	Senior Professional / Senior Consultant	Associate / Manager	Principal / Senior Manager	Senior Principal / Director	Executive / Partner
Assessment	Environmental Impact Assessment	Environmental Compliance, Audit and Due Diligence	\$970	\$1,130	\$1,470	\$1,700	\$1,920	\$2,140	\$2,360
		Environmental Impact Assessment	\$870	\$1,220	\$1,470	\$1,710	\$1,950	\$2,190	\$2,420
	Biodiversity/Ecological assessment	Environmental Impact Assessment	\$870	\$1,220	\$1,470	\$1,710	\$1,950	\$2,190	\$2,420
	Occupational Hygienists	Health and Safety Advisory and Compliance	\$990	\$1,250	\$1,520	\$1,800	\$2,070	\$2,340	\$2,720
	Consulting Arborist	Exempt							
	Bushfire Modelling	Environmental Advisory, Sustainability and Resilience	\$1,010	\$1,260	\$1,560	\$1,860	\$2,140	\$2,460	\$2,840
	Aboriginal Cultural Heritage	Archaeology and Heritage	\$1,010	\$1,200	\$1,600	\$2,000	\$2,390	\$2,630	\$3,150
	Independent Safety Assessor	Systems Assurance / Reliability, Availability, Maintainability and Safety (RAMS)	\$1,050	\$1,590	\$1,890	\$2,240	\$2,390	\$2,780	\$3,110
	Dispute managers	Dispute Management	\$1,020	\$1,270	\$1,600	\$1,990	\$2,490	\$3,110	\$3,730
Security consultants and security equipment specialist	Security consultants and security equipment specialist	Security	\$1,010	\$1,260	\$1,560	\$1,860	\$2,140	\$2,460	\$2,840

For the Capped Daily Resource Rates and Definitions of all 55 Infrastructure Advisory Service Types, please refer to the Infrastructure Advisory Services category page on [buy.nsw](https://buy.nsw.gov.au)

Discount Structure

The discount structure is recommended for contract size (including variations) above \$5M

<p>1</p> <p>Resource based discount</p> <p>Secondments refer to engagements where NSW Government is responsible for the management of the resource while the supplier is responsible for providing resources with the right skills, processes and systems and the payments are linked to days worked. Risk of delivery of output is borne by NSW Government</p>	<p>Recommended Minimum Secondment Discount</p>	
	<p>10%</p>	
<p>2</p> <p>Volume based discount</p> <ul style="list-style-type: none"> NSW Government recommends a separate Contract Size Discount upfront To minimise the administrative overhead, the Contract Size Discounts will be expected to be incorporated upfront into the resource rates based on contract size estimates, and highlighted separately at the proposal stage 	<p>Contract Size (excl GST)</p>	<p>Recommended Minimum Contract Size Discount</p>
	<p>≤ \$5m</p>	<p>0%</p>
	<p>> \$5m +</p>	<p>7%</p>

Fees reduced to reflect project risk residing with NSW Government

Leveraging suppliers economies of scale on large engagements

- Notes:**
- Contract Size includes the initial Contract value plus any additional Variation costs.
 - For any Secondment with NSW Government for IA services, suppliers is recommended to discount the daily capped rate by at least 10%, in addition to any applicable Contract Size Discount.
 - Suppliers must classify the engagement as an Assignment or Secondment explicitly up-front in their proposals and subsequent Contracts.

Expenses Policy

The expenses policy can be used to limit and manage expenses during service delivery

Cost Element		Expenses Policy
Disbursements Cap		All disbursements will be capped at 7% of engagement fees
Couriers		At Cost
Database and Market Research		No Charge
Airfares		Lowest available fare of the day
		Maximise advance bookings
		Economy only at cost
		At Cost, using Contract 1008 Travel Management Services through FCM, or lower using other means
Car Hire		At Cost, using Contract 1008 Travel Management Services through FCM, or lower using other means
Accommodation		At Cost, using Contract 1008 Travel Management Services through FCM, or lower using other means
Other Travel		At Cost
Meals - Breakfast		At Cost <\$30/day
Meals - Lunch		No Charge
Meals - Dinner		At Cost < \$50/day
Taxi		At Cost - prior approval for circumstances other than to/from airports, leaving office after 8 pm, meetings where multiple sites are used
Tips & Gratuities		No Charge
Room Hire & catering		At Cost
Stationery & postage		No Charge
Photocopying		No Charge
Telephone & Fax		No Charge
Wireless Internet Fees	On (NSW Govt) Site	At Cost
	Off Site	No Charge
Secretarial & clerical		No Charge

Resource Mix Guide (1/5)

This can be used when considering the optimal mix of resources for a particular engagement type

Consultants in Construction Scheme 1191 sub-category type	Consultants in Construction Scheme 1191 Service Type	Infrastructure Advisory Service Type	Standardised NSW Government Resource Type						
			Graduate / Analyst	Professional / Consultant	Senior Professional / Senior Consultant	Associate / Manager	Principal / Senior Manager	Senior Principal / Director	Partner
Management	Project director	Program and Project Management	5%	19%	17%	22%	20%	15%	2%
		Service Strategy and Planning	9%	16%	21%	20%	15%	15%	5%
		Business Case and Economics	9%	16%	21%	20%	15%	15%	5%
Management	Project manager planning and delivery - health infrastructure	Program and Project Management	5%	19%	17%	22%	20%	15%	2%
		Project Control and Scheduling	5%	19%	17%	22%	20%	15%	2%
		Service Strategy and Planning	9%	16%	21%	20%	15%	15%	5%
		Project Governance	5%	19%	17%	22%	20%	15%	2%
		Design Management	5%	19%	17%	22%	20%	15%	2%
Management	Project management	Program and Project Management	5%	19%	17%	22%	20%	15%	2%
		Project Control and Scheduling	5%	19%	17%	22%	20%	15%	2%
		Project Governance	5%	19%	17%	22%	20%	15%	2%
		Design Management	5%	19%	17%	22%	20%	15%	2%

Resource Mix Guide (2/5)

This can be used when considering the optimal mix of resources for a particular engagement type

Consultants in Construction Scheme 1191 sub-category type	Consultants in Construction Scheme 1191 Service Type	Infrastructure Advisory Service Type	Standardised NSW Government Resource Type						
			Graduate / Analyst	Professional / Consultant	Senior Professional / Senior Consultant	Associate / Manager	Principal / Senior Manager	Senior Principal / Director	Partner
Planning	Value management facilitators	Communication and Stakeholder Engagement	4%	12%	19%	28%	18%	15%	3%
Planning	Town planning	Service Strategy and Planning	9%	16%	21%	20%	15%	15%	5%
		Urban Design	11%	35%	17%	20%	7%	6%	3%
Planning	Quantity surveying	Cost Modelling and Planning	9%	16%	21%	20%	15%	15%	5%
Planning	Compliance and certification	Compliance and Assurance	3%	13%	18%	24%	7%	33%	2%
Planning	Compliance and certification	Independent Certification and Site Surveillance	3%	13%	18%	24%	7%	33%	2%
Planning	Land Surveying	Land Surveying / Spatial	7%	29%	31%	15%	12%	6%	1%
Planning	Property Assessment Surveys and Detailed Property Assessment Surveys	Asset Inspection	3%	13%	18%	24%	7%	33%	2%
Planning	BCA and Access Consultants	Compliance and Assurance	3%	13%	18%	24%	7%	33%	2%
Engineering	Geotechnical engineering	Geotechnical Engineering and Hydrology	7%	29%	31%	15%	12%	6%	1%

Resource Mix Guide (3/5)

This can be used when considering the optimal mix of resources for a particular engagement type

Consultants in Construction Scheme 1191 sub-category type	Consultants in Construction Scheme SCM1191 Service Type	Infrastructure Advisory Service Type	Standardised NSW Government Resource Type						
			Graduate / Analyst	Professional / Consultant	Senior Professional / Senior Consultant	Associate / Manager	Principal / Senior Manager	Senior Principal / Director	Partner
Engineering	Civil engineering	Civil Engineering	7%	29%	31%	15%	12%	6%	1%
Engineering	Structural engineering	Structural Engineering	7%	29%	31%	15%	12%	6%	1%
Engineering	Electrical - building	Electrical Engineering	7%	29%	31%	15%	12%	6%	1%
Engineering	Mechanical - building	Mechanical Engineering	7%	29%	31%	15%	12%	6%	1%
Engineering	Acoustic Engineers	Acoustics and Vibration	7%	29%	31%	15%	12%	6%	1%
Engineering	Façade	Structural Engineering	7%	29%	31%	15%	12%	6%	1%
Engineering	Hydraulic - incl. town gas, LPG and fire services	Hydraulics Services	7%	29%	31%	15%	12%	6%	1%
Engineering	Fire services - sprinklers	Fire Services	7%	29%	31%	15%	12%	6%	1%
Engineering	Fire Safety Engineering	Fire Services	7%	29%	31%	15%	12%	6%	1%
Engineering	Traffic and transport engineering	Traffic and transport engineering	7%	29%	31%	15%	12%	6%	1%
		Traffic Modelling	9%	16%	21%	20%	15%	15%	5%

Resource Mix Guide (4/5)

This can be used when considering the optimal mix of resources for a particular engagement type

Consultants in Construction Scheme 1191 sub-category type	Consultants in Construction Scheme SCM1191 Service Type	Infrastructure Advisory Service Type	Standardised NSW Government Resource Type						
			Graduate / Analyst	Professional / Consultant	Senior Professional / Senior Consultant	Associate / Manager	Principal / Senior Manager	Senior Principal / Director	Partner
Engineering	Electrical and electronics engineering	Electronic and Communication Systems Engineering	7%	29%	31%	15%	12%	6%	1%
		Electrical Engineering	7%	29%	31%	15%	12%	6%	1%
Architectural	Architectural - General	Architecture	11%	35%	17%	20%	7%	6%	3%
Architectural	Architectural - Health	Architecture	11%	35%	17%	20%	7%	6%	3%
Architectural	Architecture Planning and Delivery - Health Infrastructure	Architecture	11%	35%	17%	20%	7%	6%	3%
Architectural	Architectural - Education Primary and Secondary	Architecture	11%	35%	17%	20%	7%	6%	3%
Architectural	Architectural - Education Tertiary	Architecture	11%	35%	17%	20%	7%	6%	3%
Architectural	Architectural - Correctional	Architecture	11%	35%	17%	20%	7%	6%	3%
Architectural	Architectural - Heritage	Architecture	11%	35%	17%	20%	7%	6%	3%
		Archaeology and Heritage	16%	27%	26%	8%	18%	5%	1%

Resource Mix Guide (5/5)

This can be used when considering the optimal mix of resources for a particular engagement type

Consultants in Construction Scheme 1191 sub-category type	Consultants in Construction Scheme SCM1191 Service Type	Infrastructure Advisory Service Type	Standardised NSW Government Resource Type						
			Graduate / Analyst	Professional / Consultant	Senior Professional / Senior Consultant	Associate / Manager	Principal / Senior Manager	Senior Principal / Director	Partner
Assessment	Environmental Impact Assessment	Environmental Compliance, Audit and Due Diligence	16%	27%	26%	8%	18%	5%	1%
Assessment		Environmental Impact Assessment	16%	27%	26%	8%	18%	5%	1%
Assessment	Biodiversity/Ecological assessment	Environmental Impact Assessment	16%	27%	26%	8%	18%	5%	1%
Assessment	Occupational Hygienists	Health and Safety Advisory and Compliance	16%	27%	26%	8%	18%	5%	1%
Assessment	Consulting Arborist	Exempt							
Assessment	Bushfire Modelling	Environmental Advisory, Sustainability and Resilience	16%	27%	26%	8%	18%	5%	1%
Assessment	Aboriginal Cultural Heritage	Archaeology and Heritage	16%	27%	26%	8%	18%	5%	1%
Assessment	Independent Safety Assessor	Systems Assurance / Reliability, Availability, Maintainability and Safety (RAMS)	7%	29%	31%	15%	12%	6%	1%
Assessment	Dispute managers	Dispute Management	5%	19%	17%	22%	20%	15%	2%
Security consultants and security equipment specialist	Security consultants and security equipment specialist	Security	7%	29%	31%	15%	12%	6%	1%

Infrastructure Advisory Service Type Definitions (1/4)

These are the definitions for each of the Infrastructure Advisory Service Types applicable to Scheme SCM1191 Work Types

Engagement Type	Service Type	Definition
Management	Program and Project Management	Establishes program/project leadership and executes program/project plans, monitoring and controlling the development of the program/project according to Cost Management plans and Stakeholders and Communication Management plans. The service also includes project initiation, contract management and administration and peer review assessment.
	Service Strategy and Service Planning	The consultant in this capability will demonstrate the ability to establish a strategic planning vision that can be actioned through strategic plans and government policy frameworks. Propose and test strategic planning scenarios that recognise current conditions and anticipate long term change. Identify services needs and performance outcomes to be delivered by single or multiple assets, by asset portfolios or through masterplans (includes master planning services) at a range of scales. Communicate with diverse stakeholders to develop strategic planning proposals. Undertake peer review assessment and research as required.
	Business Case and Economics	Evaluates prospective alternatives to meet the service need, comparing alignment with objectives, socio-economic impact, feasibility, financial appraisal and funding alternatives, delivery model and risks. Includes the definition of project objectives, scope, purpose, deliverables and peer review assessment.
	Project Control and Scheduling	Monitors cost and schedules, including conducting lifecycle cost analysis, Critical Path Method analysis and scheduling. It reviews and monitors project activities, generates progress against planned reports and recommends actions to recover schedule or improve efficiency. Contributes to planning and project management activities within a larger project or program. Includes peer review assessment.
	Project Governance	Designs and establishes a framework for decision making in Infrastructure Programs and Projects. Includes approval pathways, quality assurance mechanisms, stakeholder management approaches, points of accountability. Includes executing processes to oversee program and project progress, and providing peer review assessment.
	Design Management	Manages the design process including planning and initiating a design, managing and controlling the design process to meet specifications, budget and time constraints. Contributes to planning and project management activities within a larger project or program. Includes peer review assessment.
	Dispute Management	Oversees and directs the resolution of disputes between the parties engaged in an infrastructure project or program. Includes peer review assessment.

Infrastructure Advisory Service Type Definitions (2/4)

These are the definitions for each of the Infrastructure Advisory Service Types applicable to Scheme SCM1191 Work Types

Engagement Type	Service Type	Definition
Planning	Communication and Stakeholder Engagement	Advises in management of organisational reputation with the external media or general public, reviewing and developing public relations strategies and planning. Develops community and stakeholders engagement plans, speeches and presentations for internal/external use including technical writing and graphic design activities such as brochures, reports, maps and infographics and provides facilitation services. Develops responses and communication plans for the management of issues. Also includes workshop facilitation and report preparation.
	Service Strategy and Service Planning	The consultant in this capability will demonstrate the ability to establish a strategic planning vision that can be actioned through strategic plans and government policy frameworks. Propose and test strategic planning scenarios that recognise current conditions and anticipate long term change. Identify services needs and performance outcomes to be delivered by single or multiple assets, by asset portfolios or through masterplans (includes master planning services) at a range of scales. Communicate with diverse stakeholders to develop strategic planning proposals. Undertake peer review assessment and research as required.
	Urban Design	Advises, analyses, designs and documents the urban environment and orderly development of communities including development feasibility, policy, strategy and research. Precinct based master planning, including strategic frameworks, spatial masterplans, statutory land use, implementation plans, and infrastructure associated urban and precinct scale projects
	Cost Modelling and Planning	Models and estimates costs, including quantity surveying and resource estimation. Conducts benchmarking, establishes cost management plans and provides peer review assessment.
	Compliance and Assurance	Advises, plans, directs and coordinates activities of a project ensuring compliance with legislative, ethical or regulatory standards within the project scope including BCA and access consulting. They are regulated by Fair Trading (in accordance with the Building & Developer Certifier Act)
	Independent Certification and Site Surveillance	Develops and executes construction verification, certification, monitoring and surveillance plans accordingly to construction contract. Inspects and approves building work ensuring compliance with approved building plans and building standards.
	Land Surveying / Spatial	Land Surveying: Determines accurate terrestrial or three-dimensional position of points and the distances and angles between them required to establish land maps, boundaries and locations. Spatial: Designs and develops spatial analytics using Geographic Information System (GIS). Both subservices may include peer review assessment.
	Asset Inspection	Condition assessment of the assets and its components, defects identification and scoping through trade qualified personnel, including building inspection and network condition assessment, with high risk inspection as well.

Infrastructure Advisory Service Type Definitions (3/4)

These are the definitions for each of the Infrastructure Advisory Service Types applicable to Scheme SCM1191 Work Types

Engagement Type	Service Type	Definitions
Engineering	Acoustics and Vibration	Analyses, models, designs, documents and monitors noise and vibration performance, ensuring design requirements are met. Services provided include reverberation and noise control, airborne sound insulation, impact sound isolation and structure-borne vibration control, acoustic optimisation and environmental noise assessments. Includes peer review assessment.
	Hydraulics Services	Analyses, models, designs and documents hydraulic services within and around buildings and as site services to buildings, including water, sewerage, drainage, stormwater, town gas, LPG and fire hydrants and hose reels. Includes peer review assessment.
	Civil Engineering	Analyses, models, designs and documents civil structures such as bridges, dams, retaining walls, reservoirs, car parks, roads and coastal structures. Includes peer review assessment.
	Mechanical Engineering	Analyses, models, designs and documents the requirements for air conditioning, heating, ventilation, domestic hot water, non-potable water, cool rooms, steam, medical/industrial gases, vertical transportation, building management and control systems for architectural facilities and buildings for civil works. Includes peer review assessment.
	Structural Engineering	Analyses, models, designs and documents the structural components of buildings, such as footings, beams, floors, facade, roof structure walls, columns and roadworks, hydraulic and stormwater designs associated with buildings. Includes peer review assessment.
	Electrical Engineering	Analyses, models, designs and documents the requirements for indoor and outdoor lighting, power, HV/LV reticulation and switchboards, control, uninterruptable power supplies, generators, fire detection and voice and data cabling for site services, architectural facilities and buildings for civil works. Includes peer review assessment.
	Electronic and Communication Systems Engineering	Analyses, models, designs and documents the requirements for electronic, communication and audio-visual systems required for all infrastructure asset types including rail systems, communications and signalling. Includes peer review assessment.
	Fire Services	Analyses, models, designs and documents all structural, mechanical, electrical and electronic services to attain required levels of fire safety compliant to relevant regulations. Includes advice in fire safety engineering, passive fire design, evacuation modelling and means of escape assessments, as well as peer review assessment.
	Geotechnical Engineering and Hydrology	Investigates, analyses, models and reports on ground conditions, natural behaviour, slope stability, site conditions response to artificially changed conditions and capacity to support civil and architectural structures. Hydrology: Analyses and reports on movement, distribution and management of water and water resources, water quality testing and impact assessments. Both subservices may include peer review assessment.
	Traffic and Transport Engineering	Analyses, models, designs and documents the operation of traffic and transport infrastructure including specialist advice on intelligent transport systems. Includes peer review assessment.

Infrastructure Advisory Service Type Definitions (4/4)

These are the definitions for each of the Infrastructure Advisory Service Types applicable to Scheme SCM1191 Work Types

Engagement Type	Service Type	Definition
Engineering	Traffic Modelling	Demonstrates and documents of the impact of a planned change or development through analysis, simulation and modelling of rail, highways, junctions, roadways, pathways and other transport infrastructure. Includes peer review assessment.
Architecture	Architecture	The consultant in this capability demonstrates specialised skill and experience to design new buildings and structures, refurbishment and interior fit out of existing buildings and adaptive reuse of heritage buildings. Technical services include site based master planning, concept design and feasibility, architectural documentation for construction, coordination of sub consultants. Key skills may also include architectural research, preparation of return briefs and strategic thinking.
Assessment	Systems Assurance / Reliability, Availability, Maintainability and Safety (RAMS)	Analyses potential scenarios of service failures and disruptions and their possible costs to develop strategies to reduce those risks and ensure assets remain reliable, maintainable, available and safe for use. Defines, captures, validates and verifies operational and safety requirements, manages changes and validates their acceptance and compliance with operational and safety standards and the authority.
	Environmental Advisory, Sustainability and Resilience	Advises on the environmental conditions affecting the infrastructure project, including bushfire modelling, flood modelling, weather analysis modelling including wind, rain and snow, seismic assessment, and terrestrial and aquatic ecology advice. Advices on strategy development in all aspects of environmental sustainability including reporting, communication, research activities and facilitates sustainability accreditations and certifications. Provides Infrastructure Resilience advice including disaster modelling, disaster preparedness, restoration remediation and redevelopment.
	Environmental Compliance, Audit and Due Diligence	Reviews the environmental performance of a project in achieving both legislative compliance and the organisation's environmental goals and objectives. It includes developing and implementing Environmental Management Systems (EMS) as well as planning, managing and conducting environmental checks and audits as noise monitoring, air quality monitoring, hazardous materials, contaminated site investigation and occupational hygienist, and reporting and acting on the findings. Conducts environmental due diligence for commercial or real state acquisitions and selling.
	Environmental Impact Assessment	Evaluates the bio-diversity assessment and the likely environmental impacts of a proposed project or development.
	Health and Safety Advisory and Compliance	Advises on health and safety strategy and plans, assess worker risks, incorporating best practices and ensuring compliance with legislation to improve workplace environment. Includes on site training and conducts reviews, risk analysis, hazard elimination, engineering modification and incident investigations.
Security consultants and security equipment specialist	Security	Analyses, models, designs and documents security systems, including site inspection, training and commissioning of those required for Correctional Centres, Court Houses, Police Stations and Juvenile Justice Centres. Advises on engineering design and construction materials for counter-terrorism measures and general infrastructure safety and security, including suicide prevention (compliance with the Security Industry Act 1997) . Includes peer review assessment.

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