

Payment Schedule

<<Guidance note: This is an example payment schedule that can be updated to reflect requirements of the project prior to tender release. The relevant information can either be inserted into Appendix A or attached.>>

This payment schedule defines the pricing schedule items and the terms of their payment. The numbering shown corresponds to the numbering on the Contract Pricing Schedule.

Item	Description
1	Contract Scope
1.1	General
	The Lump Sum covers all services referenced in the <i>Contract Scope</i> , additional to the referenced contract specifications (identified in the contract agreement), necessary for the satisfactory completion of the project with the exception of any following listed items. Payment will be prorated on a monthly basis for the duration of the contract.
	Other
2	Contract Management
2.1	General
	The Lump Sum covers all services referenced in the <i>Contract Scope</i> Section 4 <i>Contract Management</i> , necessary for the satisfactory completion of the project, with the exception of any following listed items. Payment will be prorated on a monthly basis for the duration of the contract.
2.3	Quality Management Plan
	The Lump Sum includes all expenses relating to the preparation, regular updating and implementation of the Consultant's Quality Management Plan as specified subject to any amendments specified in the Contract Scope, and includes staged auditing by an independent party to confirm compliance to the Principal's minimum requirements, Payment of [60%] of the Lump Sum will be made on Client acceptance of the initial Consultant's Quality Management Plan. The remainder will be prorated on a monthly basis over the term of the contract and paid following Client acceptance of the monthly update with the Monthly Report.
2.4	Quality File
	The Lump Sum includes all expenses relating to the preparation, regular updating and maintenance of the Consultant's Quality File in accordance with the specification in an agreed digital form accessible to both Consultant and Client (and Contractor where appropriate). Payment of [60%] of the Lump Sum will be prorated on a monthly basis over the term of the contract. The remainder will be paid on Client acceptance of the as delivered Quality File at the end of the contract.
2.5	Health, Safety and Wellbeing Management Plan (HSWMP)

Item	Description
	<p>The Lump Sum includes all expenses relating to the preparation, regular updating and implementation of the Health, Safety and Wellbeing Management Plan as specified, subject to any amendments specified in the <i>Contract Scope</i>.</p> <p>Payment of [60%] of the Lump Sum will be made on Client acceptance of the initial Health, Safety and Wellbeing Management Plan. The remainder will be prorated on a monthly basis over the term of the contract and paid following Client acceptance of the monthly update with the Monthly Report.</p>
2.6	<p>Risk Management Plan</p> <p>The Lump Sum includes all expenses relating to the preparation and implementation of the Risk Management Plan as specified, subject to any amendments specified in the <i>Contract Scope</i>.</p> <p>Payment of [60%] of the Lump Sum will be prorated on a monthly basis over the term of the contract. The remainder will be paid on Client acceptance of the Risk Management Plan.</p>
2.7	<p>Risk Reviews</p> <p>The Unit Rate includes all expenses relating to the preparation and attendance, during the Contract, of the Risk Reviews, including the Contract Close Out Risk Review. The Consultant should arrange for the reviews including venue, refreshments and presentation.</p> <p>Payment of the Unit Rate will be made following completion of the risk review.</p>
2.8	<p>Community and Stakeholder Engagement Plan (CSEMP)</p> <p>The Lump Sum includes all expenses relating to the initial meeting and instruction, preparation, management, review and regular updating and implementation of the Community and Stakeholder Engagement Plan as specified, subject to any amendments specified in the <i>Contract Scope</i>.</p> <p>The input of the Client's Communications and Engagement team representative will be managed by the Consultant. This representative will provide oversight and approval of the plan and activities. Approval of this plan will confirm the quantities of activities and resources (including Consultation Reports) proposed in the provisional sum priced at 11.1 Community engagement/stakeholder liaison activities. Payment of [60%] of the Lump Sum will be made on Client acceptance of the initial Community and Stakeholder Engagement Plan. The remainder will be prorated on a monthly basis over the term of the contract and paid following Client acceptance of the monthly update with the Monthly Report.</p>
2.9	<p>Environmental Management Plan</p> <p>The Lump Sum includes the preparation, implementation, and updating of the Environmental Management Plan, subject to any amendments, as specified in the <i>Contract Scope</i>.</p> <p>Payment of [60%] of the Lump Sum will be made on Client acceptance of the initial Environmental Management Plan. The remainder will be prorated on a monthly basis over the term of the contract and paid following Client acceptance of the monthly update with the Monthly Report.</p>
2.10	<p>Māori Engagement Plan (MEP) including Tangata Whenua Engagement</p> <p>The Lump Sum includes all expenses related to the initial hui or meeting and instruction, preparation, management, review and regular updating and</p>

Item	Description	
	<p>implementation of the Māori Engagement Plan as specified in Te Ara Kotahi Our Māori Strategy, subject to any amendments specified in the <i>Contract Scope</i>.</p> <p>Payment of [60%] of the Lump Sum will be made on Client acceptance of the initial Māori Engagement Plan. The remainder will be prorated on a monthly basis over the term of the contract and paid following Client acceptance of the monthly update with the Monthly Report.</p>	
2.11	<p>Consultant's Programme</p> <p>The Lump Sum includes all expenses relating to the preparation and development of the Consultant's Programme as specified, subject to any amendments specified in the <i>Contract Scope</i>.</p> <p>Payment of [60%] of the Lump Sum will be made on Client acceptance of the Baseline Programme. The remainder will be prorated on a monthly basis over the term of the contract and paid following Client acceptance of the monthly update with the Monthly Report.</p>	
2.12	<p>Activity Risk File</p> <p>The Lump Sum includes all expenses relating to the preparation, regular updating and maintenance of the Activity Risk File in accordance with the Waka Kotahi <i>Minimum Standard Z/44 Risk Management</i>.</p> <p>Payment of [60%] of the Lump Sum will be prorated on a monthly basis over the term of the contract. The remainder will be paid on Client acceptance of the Final Contract Close Out Risk Report.</p>	
2.13	<p>Monthly Project Meetings</p> <p>The Unit Rate includes all expenses relating to the preparation and attendance, during the Contract, of the Consultant's Monthly Meetings.</p> <p>Payment of the Unit Rate will be made on completion of each meeting.</p>	
2.14	Reporting	
2.14.1	Final Construction Report	The Lump Sum includes all expenses relating to the preparation and delivery of the Final Construction Report as specified in the <i>Contract Scope</i> section 4.6.5
2.14.2	H&S Performance and Assurance Reporting	The Lump Sum includes all expenses relating to the provision of monthly H&S Performance and Assurance Reporting as specified in the <i>Contract Scope</i> Section 4.6.9
2.14.3	PBC	<p>The Lump Sum includes all expenses relating to the preparation and delivery, during the PBC phase, of the Consultant's Monthly Reports, the Accrual Reports.</p> <p>Payment of the Lump Sum will be prorated monthly over the programmed period of the PBC phase.</p>
2.14.4	SSBC	The Lump Sum includes all expenses relating to the preparation and delivery, during the SSBC phase, of the Consultant's Monthly Reports, the Accrual Reports and, as necessary, any Accident Reports.

Item	Description	
		Payment of the Lump Sum will be prorated monthly over the programmed period of the SSBC phase.
2.14.5	Pre-Implementation	<p>The Lump Sum includes all expenses relating to the preparation and delivery, during the Pre-Implementation phase, of the Consultant's Monthly Reports, the Accrual Reports and, as necessary, Accident Reports.</p> <p>Payment of the Lump Sum will be prorated monthly over the programmed period of the Pre-Implementation phase.</p>
2.14.6	Implementation	<p>The Lump Sum includes all expenses relating to the preparation and delivery, during the Implementation phase, of the Consultant's Monthly Reports, including contractor performance evaluation forms when appropriate, the Accrual Reports and, as necessary, any Accident Reports.</p> <p>Payment of the Lump Sum will be prorated monthly over the programmed period of the Implementation phase.</p>
3	Programme Business Case	
3.1	General	<p>The Lump Sum includes all expenses relating to services as referenced in the <i>Contract Scope</i> section 5 <i>Programme Business Case</i>, necessary for the satisfactory completion of the project, except for any following listed items.</p> <p>Payment of the Lump Sum will be prorated on a monthly basis for the duration of the phase.</p>
3.2	Developing the evidence base	<p>The Lump Sum includes all expenses relating to further investigation and analysis of the wider context to the study coupled with investigating further the evidence and root cause to support the Strategic Case Problems and Benefits statement.</p> <p>Payment of the Lump Sum shall be made upon receipt of the completed <i>Part A</i> of the <i>Programme Business Case template</i>.</p>
3.3	Workshops	<p>The Unit Rate includes all expenses relating to the preparation and attendance of the Workshop (s) during the Contract, including accommodation and travel expenses (if necessary) and production of a workshop report.</p> <p>Payment of the Unit Rate will be made on client acceptance of the workshop report.</p>
3.4	Programme Development and assessment	<p>The Lump Sum shall include all expenses associated with preparation of the Programme and Development and assessment.</p> <p>Payment of the Lump Sum will be upon receipt of the assessment.</p>
3.5	Recommended programme development	

Item	Description
	<p>The Lump Sum includes all expenses associated with forming a recommended programme and undertaking sufficient further analysis to provide a robust case for such a recommendation aligned to a clear expression of performance against Investment Objectives, a clear consideration of the feasibility, costs, impacts phasing and affordability of the programme (in accordance with the Guide to Programme Business Cases).</p> <p>Payment of the Lump Sum will be upon Client acceptance of the programme.</p>
3.6	<p>Programme Business Case</p> <p>The Lump Sum includes all expenses, with the exception only of those specifically covered in other items, relating to the investigations for, preparation and delivery of the Programme Business Case as detailed in the <i>Programme Business Case template</i> and guidance, and any subsequent peer review requirements subject to any amendments specified in the <i>Contract Scope</i>.</p> <p>Payment of [80%] of the Lump Sum will be prorated on a monthly basis over the period from instruction to proceed up to delivery of the draft Programme Business Case, with the remainder being paid on Client acceptance of the final Programme Business Case.</p>
4	Single Stage Business Case
4.1	<p>General</p> <p>The Lump Sum includes all expenses relating to services as referenced in the <i>Contract Scope</i> section 6 <i>Single Stage Business Case/Indicative Business Case/Detailed Business Case</i>, necessary for the satisfactory completion of the project, except for any following listed items. Payment of the Lump Sum will be prorated on a monthly basis for the duration of the phase.</p>
4.2	<p>Workshops</p> <p>The Unit Rate includes all expenses relating to the preparation and attendance of the Workshop (s) during the Contract, including accommodation and travel expenses (if necessary) and production of a workshop report.</p> <p>Payment of the Unit Rate will be made on client acceptance of the workshop report.</p>
4.3	<p>Alternative and Option Assessment</p> <p>The Lump Sum includes all expenses associated with the preparation and development of the Alternative and Option Assessment. Payment of the Lump Sum will be upon Client acceptance of the Alternative and Option Assessment Report.</p>
4.4	<p>Traffic Model</p> <p>The Lump Sum includes all expenses relating to the preparation and delivery of the micro-simulation traffic model, development, validation and analysis reports.</p> <p>Payment of [80%] of the Lump Sum will be prorated on a monthly basis over the period from instruction to proceed up to the delivery of draft Traffic Modelling Report. The remaining balance will be paid on Client acceptance of the final Report.</p>
5	Pre-Implementation or Design and Construct: Specimen Pre-implementation
5.1	<p>Topographical Survey</p>

Item	Description				
	<p>The Lump Sum includes all expenses relating to obtaining the required data, conducting the investigations for, and compiling a Digital Terrain Model (DTM) using LiDAR information. Payment of the Lump Sum will be made on completion of the survey and Client acceptance of the final DTM.</p>				
5.2	<p>Geotechnical Investigations</p> <table> <tr> <td>5.2.1 Geotechnical Testing Management</td><td>The Lump Sum includes all expenses relating to the management of a sub-consultant to undertake the required geotechnical testing as agreed with the Client and as specified in the <i>Contract Scope</i> section 7.3. Payment will be prorated over the period during which the geotechnical testing is being undertaken.</td></tr> <tr> <td>5.2.2 Geotechnical Assessment (Interpretative Report)</td><td>The Lump Sum includes all expenses, with the exception only of those specifically covered in other items, relating to the investigations for, preparation and delivery of the Geotechnical Interpretative Report as specified in the <i>Contract Scope</i> section 7.3. Payment of [80%] of the Lump Sum will be prorated on a monthly basis over the period from instruction to proceed up to the delivery of the draft Report, with the remainder being paid on Client acceptance of the final Report.</td></tr> </table>	5.2.1 Geotechnical Testing Management	The Lump Sum includes all expenses relating to the management of a sub-consultant to undertake the required geotechnical testing as agreed with the Client and as specified in the <i>Contract Scope</i> section 7.3. Payment will be prorated over the period during which the geotechnical testing is being undertaken.	5.2.2 Geotechnical Assessment (Interpretative Report)	The Lump Sum includes all expenses, with the exception only of those specifically covered in other items, relating to the investigations for, preparation and delivery of the Geotechnical Interpretative Report as specified in the <i>Contract Scope</i> section 7.3. Payment of [80%] of the Lump Sum will be prorated on a monthly basis over the period from instruction to proceed up to the delivery of the draft Report, with the remainder being paid on Client acceptance of the final Report.
5.2.1 Geotechnical Testing Management	The Lump Sum includes all expenses relating to the management of a sub-consultant to undertake the required geotechnical testing as agreed with the Client and as specified in the <i>Contract Scope</i> section 7.3. Payment will be prorated over the period during which the geotechnical testing is being undertaken.				
5.2.2 Geotechnical Assessment (Interpretative Report)	The Lump Sum includes all expenses, with the exception only of those specifically covered in other items, relating to the investigations for, preparation and delivery of the Geotechnical Interpretative Report as specified in the <i>Contract Scope</i> section 7.3. Payment of [80%] of the Lump Sum will be prorated on a monthly basis over the period from instruction to proceed up to the delivery of the draft Report, with the remainder being paid on Client acceptance of the final Report.				
5.3	<p>Property Requirements</p> <p>The Lump Sum includes all expenses relating to the property investigation and purchase requirements in accordance with the <i>Contract Scope</i> section 7.4, including Consultant attendance and production of engagement materials at pre-acquisition landowner engagement meetings, and the necessary information for the Route Option Evaluation, Preliminary Land Requirement Plans, Property Strategy, Preliminary Land Use Plan, Licences to Occupy and Land Requirement Plans.</p> <p>Any Consultant inputs that the Client's Property Acquisition Agent requires directly for the active property acquisition process will be an additional service unless it is to clarify the existing proposal or should have been reasonably foreseen.</p> <p>Payment of the Lump Sum will be prorated on a monthly basis over the period of the Implementation Phase.</p>				
5.4	<p>Design</p> <table> <tr> <td>5.4.1 General</td><td>The Lump Sum includes all expenses relating to services referenced in the <i>Contract Scope</i> section 7.5.1 necessary for the satisfactory completion of the project. Payment of the Lump Sum will be prorated on a monthly basis for the duration of the phase.</td></tr> <tr> <td>5.4.2 Construction Drawings or Outline Drawings</td><td> <p>The Lump Sum includes all expenses relating to services referenced in the <i>Contract Scope</i> section 7.5.2, necessary for the satisfactory completion of the project.</p> <p>Payment of the Lump Sum will be made based on the percentage complete up to a maximum of 80% of the full amount. The balance remaining will be paid upon Waka Kotahi acceptance of the Construction Drawings.</p> </td></tr> </table>	5.4.1 General	The Lump Sum includes all expenses relating to services referenced in the <i>Contract Scope</i> section 7.5.1 necessary for the satisfactory completion of the project. Payment of the Lump Sum will be prorated on a monthly basis for the duration of the phase.	5.4.2 Construction Drawings or Outline Drawings	<p>The Lump Sum includes all expenses relating to services referenced in the <i>Contract Scope</i> section 7.5.2, necessary for the satisfactory completion of the project.</p> <p>Payment of the Lump Sum will be made based on the percentage complete up to a maximum of 80% of the full amount. The balance remaining will be paid upon Waka Kotahi acceptance of the Construction Drawings.</p>
5.4.1 General	The Lump Sum includes all expenses relating to services referenced in the <i>Contract Scope</i> section 7.5.1 necessary for the satisfactory completion of the project. Payment of the Lump Sum will be prorated on a monthly basis for the duration of the phase.				
5.4.2 Construction Drawings or Outline Drawings	<p>The Lump Sum includes all expenses relating to services referenced in the <i>Contract Scope</i> section 7.5.2, necessary for the satisfactory completion of the project.</p> <p>Payment of the Lump Sum will be made based on the percentage complete up to a maximum of 80% of the full amount. The balance remaining will be paid upon Waka Kotahi acceptance of the Construction Drawings.</p>				

Item	Description
5.4.3 Design Philosophy Statement	<p>The Lump Sum includes all expenses relating to services referenced in the <i>Contract Scope</i> section 7.5.3, necessary for the satisfactory completion of the project. Payment of Lump Sum will be made based on the percentage complete up to a maximum of 80% of the full amount. The balance remaining will be paid upon Waka Kotahi acceptance of the Construction Drawings.</p>
5.4.4 Pavement Design Statement	<p>The Lump Sum includes all expenses relating to services referenced in the <i>Contract Scope</i> section 7.5.4, necessary for the satisfactory completion of the project.</p> <p>Payment of the Lump Sum will be made on Client acceptance of the Pavement Design Statement</p>
5.4.5 Structure, including Geotechnical Structures, Design Statement	<p>The Lump Sum includes all expenses relating to services referenced in the <i>Contract Scope</i> section 7.5.5, necessary for the satisfactory completion of the project.</p> <p>Payment of Lump Sum will be made based on the percentage complete up to a maximum of 80% of the full amount. The balance remaining will be paid upon Client acceptance of the Structure Design Statement.</p>
5.4.6 RAMM System Input Forms	<p>The Lump Sum includes all expenses relating to services referenced in the <i>Contract Scope</i> section 7.5.6. Payment will be made on Client acceptance of the RAMM System Input Forms.</p>
5.4.7 HSIMS Data Input Forms and geotechnical asset shape and data files	<p>The Lump Sum includes all expenses relating to the production and delivery of all HSIMS Data Input Forms in accordance with the <i>Contract Scope</i> section 7.5.7 including all necessary measure-up survey and geotechnical asset shape and data files.</p> <p>Payment of the Lump Sum will be made on Client acceptance of the HSIMS Data Input Forms.</p>
5.4.8 Safety in Design Reviews	<p>The Unit Rate includes all expenses relating to the preparation and attendance, during the Contract, of the Safety in Design Workshops / Reviews, including maintaining a Safety in Design File. Payment of the Unit Rate will be made on completion of each workshop.</p>
5.4.9 Maintenance in Design Reviews	<p>The Unit Rate includes all expenses relating to the preparation and attendance, during the Contract, of the Maintenance in Design Workshops / Reviews, including maintaining a Maintenance in Design File. Payment of the Unit Rate will be made on completion of each workshop.</p>
5.4.10 Technical Specifications	<p>The Lump Sum includes all expenses relating to services referenced in the <i>Contract Scope</i> section 7.5.10, necessary for the satisfactory completion of the project.</p> <p>Payment of Lump Sum will be made based on the percentage complete up to a maximum of 80% of the full amount. The balance remaining will be paid upon Waka Kotahi acceptance of the Technical Specifications.</p>

Item	Description	
5.4.11	Urban and Landscape Design Framework	The Lump Sum includes all expenses relating to the investigations for, and preparation and delivery of, the Urban and Landscape Design Framework. Payment will be made on Client acceptance of the Framework.
5.4.12	Design Certificates	The Lump Sum includes all expenses relating to services referenced in the <i>Contract Scope</i> section 7.5.12, necessary for the satisfactory completion of the project. Payment of the Lump Sum will be made on Client acceptance of the Design Certificates.
5.4.13	Final Design Report	<p>The Lump Sum includes all expenses relating to services referenced in the <i>Contract Scope</i> section 7.5.13, necessary for the satisfactory completion of the project.</p> <p>Payment of the Lump Sum will be made based on the percentage complete up to a maximum of 80% of the full amount. The balance remaining will be paid upon Client acceptance of the Final Design Report.</p>
5.5	Statutory Approvals	
5.5.1	Preparation of Consenting Strategy and applications for resource consents and other statutory approvals	<p>The Lump Sum includes all expenses, except lodgement fees, relating to the preparation of a consenting strategy, development and lodgement of resource consents and other statutory approval applications. This includes consultation and liaison with the Client, consent authority staff and provision of adequate information to the satisfaction of the consent authority (before and after lodgement).</p> <p>Payment of the Lump Sum will be made on the confirmation of the lodged application by the consent authority. Council lodgement fees will be paid as a reimbursable expense.</p>
5.5.2	Technical investigations and assessments to support statutory approvals	<p>The Lump Sum includes all expenses relating to the preparation of technical assessments, management plans and mitigation plans/design to support the AEE and/or other statutory approvals, as referenced in the <i>Contract Scope</i> section 7.6.2. This includes liaison with the Client's legal, Planning and Environmental and Urban Design teams.</p> <p>Payment of [70%] of the Lump Sums will be prorated on a monthly basis over the period from instruction to proceed up to the delivery of the draft technical assessments with the remainder being paid on Client acceptance of the final technical assessments.</p>
5.5.2.1	Assessment of Effects on the Environment	The Lump Sum includes all expenses relating to the preparation of AEEs, including liaison with consenting authority staff and provision of adequate information to the satisfaction of the Waka Kotahi planning representative and the consenting authority. The Lump Sum should allow for the preparation of supporting material for consideration of alternatives, engagement and consultation undertaken to date and include an assessment of effects, staging and geotechnical issues.

Item	Description	
		Payment of the Lump Sum will be made on acceptance of the application by the relevant authority. Council and other lodgement fees will be paid as a reimbursable expense.
5.5.3	Building Consent/Waiver request Documentation	The Lump Sum includes all expenses relating to services referenced in the <i>Contract Scope</i> section 7.6.3 (5), necessary for the satisfactory completion of the project. Payment of the Lump Sum will be made on Client acceptance of the Building Consent Documentation.
5.6	Prepare Draft Social and Environmental Management Plans	The Lump Sum includes all expenses relating to the drafting and preparation of the Social and Environmental Management Plan as specified in the <i>Contract Scope</i> section 7.7
5.7	Tender Documentation	The Lump Sum includes all expenses relating to the preparation and delivery of the physical works tender documentation in accordance with the Contract Scope section 7.9, including, but not limited to, the customising of the appropriate standard contract proforma (from the Waka Kotahi <i>Construction Contract Proforma Manual</i> (SM031), and producing comprehensive specifications and payment schedules. Payment of the Lump Sum will be made on Client acceptance of the final physical works tender document including specifications.
5.8	Accompanying Documentation	The Lump Sum includes all expenses relating to the preparation and provision of the documentation specified in the <i>Contract Scope</i> section 7.11
6	Implementation	
6.1	Tender Administration and Evaluation	The Lump Sum includes all expenses relating to the tender administration and evaluation of the physical works contract(s), in accordance with the <i>Contract Scope</i> section 8.2. Payment of the Lump Sum will be made on Client acceptance of Tender Evaluation Report.
6.2	Management and Surveillance of the Physical Works	
6.2.1	General	The Lump Sum includes all expenses relating to the contract management and surveillance of the physical works, in accordance with the <i>Contract Scope</i> section 8.3.1. Payment of [90%] of the Lump Sum will be prorated, on a monthly basis, over the period of the physical works contract. The remainder will be paid on issue of the Final Completion Certificate and Client acceptance of the Final Construction Report.
6.2.2	Project Management Board (PMB) Meetings	The Lump Sum includes all expenses relating to arranging and organising bi-monthly PMB meetings or when required, in accordance with the <i>Contract Scope</i> section 8.3.5. The Lump Sum includes the Consultant's time throughout the duration of the construction period. Payment of the Lump Sum will be

Item	Description
	prorated, on a monthly basis, over the period of the physical works contract.
6.2.3 As-built Drawings	<p>The Lump Sum includes all expenses relating to the production and delivery of the as-built drawings in accordance with PSG/9. Payment of the Lump Sum will be made on Client acceptance of the as-built drawings.</p> <p>Payment of Lump Sum will be made based on the percentage complete up to a maximum of 80% of the full amount. The balance remaining will be paid upon acceptance of the final As-built Drawings.</p>
6.2.4 Road Construction Information Forms	<p>The Lump Sum includes all expenses relating to the production and delivery of the Road Construction Information Forms, in accordance with PSF/3b including all necessary measure-up survey.</p> <p>Payment of the Lump Sum will be made on Client acceptance of the completed Road Construction Update Forms. Where these are not delivered in accordance with Schedule 2 <i>Programme for Deliverables</i> the Client may request the Network Outcomes Contractor to complete the Road Construction Update Forms.</p>
6.2.5 RAMM Data Updates	The Lump Sum includes all expenses relating to the delivery of completed RAMM Data Updates in accordance with the <i>Contract Scope</i> section 8.4.3.
6.2.6 Highway Structures Information Management System Update Sheets	The Lump Sum includes all expenses relating to the completion and delivery of the HSIMS updates in accordance with the <i>Contract Scope</i> section 8.4.4.
6.2.7 Construction Review Certificates	<p>The Lump Sum includes all expenses relating to services referenced in the <i>Contract Scope</i> section 8.4.5, necessary for the satisfactory completion of the project.</p> <p>Payment of the Lump Sum will be made on Client acceptance of the Construction Review Certificates.</p>
6.2.8 Asset Owner's Manual	<p>The Lump Sum includes all expenses relating to the production and delivery of the Asset Owner's Manual, in accordance with the <i>Contract Scope</i> section 8.4.6.</p> <p>Payment of [50%] of the Lump Sum will be made on Client acceptance of the draft Asset Owner's Manual and remainder to be paid on acceptance of the Final Asset Owner's Manual.</p>
6.2.9 Final Construction Report	The Lump Sum includes all expenses relating to the preparation and delivery of the Final Construction Report for the completed project, in accordance with the requirements as specified in the <i>Contract Scope</i> section 4.17.5.

Item	Description
	Payment of the Lump Sum will be made on Client acceptance of the Report.
6.3	<p>Property Requirements</p> <p>The Lump Sum includes all expenses relating to the undertaking of the requirements of the <i>Contract Scope</i> section 8.5.</p> <p>Payment of [50%] will be made following issue of the Practical Completion Certificate, with the remainder to be paid on acceptance of deliverables under Schedule 2 <i>Programme for Deliverables</i>.</p>
6.4	<p>Road Safety Audit</p> <p>The Lump Sum includes all expenses relating to the arrangement and completion of a Road Safety Audit in accordance with the requirements in the <i>Contract Scope</i> section 8.6.</p>
6.5	<p>Temporary Detours</p> <p>The Lump Sum includes all expenses relating to the arrangement and completion of a Road Safety Audit in accordance with the requirements in the <i>Contract Scope</i> section 8.7</p>
7	STANDARD SPECIFICATION – Bridges, geotechnical structures and other significant highway structures
7.1	<p>General</p> <p>The Lump Sum includes all expenses relating to services referenced in Section 1.0 of the Waka Kotahi Standard Specification <i>Management of State Highway Bridges, Geotechnical Structures and Other Significant Structures</i> found on the Highways Information Portal, necessary for the satisfactory completion of the project, subject to any amendments specified in the Contract Scope.</p> <p>Payment of the Lump Sum will be prorated on a monthly basis for the duration of the phase.</p>
7.2.	<p><<as per scheduled item>></p> <p><<as per scheduled item>></p>
7.2.1	<p><<as per scheduled item>></p> <p><<as per scheduled item>></p>
8	GEOTECHNICAL TESTING
P.S.	<p>The type of testing and method of payment shall be negotiated during the contract period.</p> <p><<OR if you have chosen some scheduled items>> When the final geotechnical testing schedule has been agreed, the following basis of payment sections relating to those items within the agreed schedule, will apply.</p>
S.O.R.	<p>Payment for testing shall be on a Schedule of Rates (SOR) basis. Payment shall be made on the basis of the testing results presented in the Geotechnical Investigation and Testing Results Report (Factual Report). Unless otherwise stated, all material descriptions shall be in accordance with the current NZ</p>

Item	Description
	<p>Geotechnical Society Inc. (NZGS) <i>Field Description of Soil and Rock</i>. Sampling and core handling shall be undertaken in accordance with the New Zealand Ground Investigation Specification, Volume 1: Master Specification. Where a different test method has been adopted, this shall be clearly stated with reasoning.</p> <p>Where the Tenderer has entered a zero rate on the Schedule for any included item or part thereof, payment for any work instructed under this item is deemed to be included elsewhere in the Pricing Schedule and no additional payment shall be made until the extent of testing specified in the full Geotechnical Testing Schedule has been exceeded.</p> <p>Within the Schedule the following terms are defined:</p>
	<p>NZGS means The New Zealand Geotechnical Society Inc.</p>
	<p>Logged means the assessment and identification of materials within test pits and boreholes by an appropriately qualified engineer or engineering geologist adopting the material descriptions in accordance with the NZGS <i>Field Description of Soil and Rock</i> and <i>BS5930: 2015 Code of practice for ground investigations</i>, British Standards Institution, for aspects not covered by the NZGS.</p>
	<p>Photograph(ed) means the provision of photographs clearly showing details of the ground conditions within pavement test pits and investigation test pits. Exposure shall be such that the materials can be clearly seen and photographs shall include a legible reference board identifying the test location and date together with a legible scale or tape measure within the test pit. One colour print shall be provided for each test pit. For cored boreholes, photographs shall be taken before cutting/breaking/handling that forms part of the logging process and shall include a legible reference board incorporating the project title, borehole number, date and depth, together with a graduated scale and standard colour chart. Where core deconstruction for logging purposes reveals any aspects of interest, further photographs shall be provided. Rates shall include for all necessary equipment and lighting to provide clear legible photographs and the provision of a standard colour chart with the factual report.</p>
	<p>Reported means the provision of a factual report standard log checked and approved for issue and shall include for all costs associated with compiling and presenting logs. This shall include uploading to the NZ Geotechnical Database (following approval by Waka Kotahi). Test pit and borehole logs shall include those items detailed in BS5930:2015 for borehole logs. Test results shall be reported as required by the appropriate NZS, BS standard, or ASTM standard and rates shall include for all costs associated with compiling and presenting results.</p>
	<p>Standpipe Piezometer means a tube or pipe with a perforated end section surrounded by or wrapped with a filter. The perforated section shall be located within a sand pocket sealed and grouted within a borehole.</p>
	<p>Stored for testing means that samples are protected from frost, excessive temperature variation and moisture migration. This will require samples to be appropriately sealed within sample containers and kept within the temperature range of 5°C and 40°C with daily temperature variation limited to a maximum of 20°C.</p>
	<p>Field works for the purposes of monitoring installed standpipes and standpipe piezometers, shall refer to the period between installation and the disestablishment from the site at the end of all exploratory hole works; namely pavement test pits, investigation test pits, boreholes, CPT test and auger/ DCP test holes.</p>

Item	Description	
	Solid Core drilling shall mean rotary drilling meeting the general requirements of <i>BS4019: 1999 Rotary core drilling equipment</i> and providing good quality core of not less than 50mm diameter core size.	
8.1	Scala Penetrometer, and Hand Auger	
8.1.1	Dynamic Cone Penetrometer (DCP) (1.5m maximum)	Payment shall be Unit Rate for any DCP up to 1.5m depth performed and reported in accordance with <i>NZS4402: 1988 Methods of Testing Soils for Civil Engineering Purposes</i> Test 6.5.2.
8.1.2	Hand Auger Excavation (4m maximum)	Payment shall be Unit Rate for any Hand Auger excavation up to 4m depth performed, logged and reported, including backfilling with excavated material.
8.1.3	Disturbed sample for laboratory testing	Payment shall be Unit Rate for any disturbed field sample taken and stored for testing and reported as part of 8.1.2. Sample size shall be in accordance with NZS4402 1988 or NZS440 1991 and sufficient material of similar properties for tests listed below.
8.2	Pavement Tests	
8.2.1	Testpit Excavation (nominally 600mm deep)	Payment shall be Unit Rate for any Pavement Test Pit to the base of pavement materials and 100mm minimum into underlying subgrade (nominal total depth 600mm) performed, logged, photographed, and reported. The rate shall include for all establishment and disestablishment costs of plant and equipment, immediate replacement and re-compaction of materials and reinstatement of pavement to the satisfaction of the Client. Materials and methodology shall be such that the reinstatement shall be of a standard of no less than that existing prior to excavation of the test pit.
8.2.2	Density (field NDM)	Payment shall be Unit Rate for any field NDM density (NZS 4407:1991 Test 4.2.1 or 4.2.2) performed and reported as part of 8.2.1.
8.2.3	Disturbed sample for Laboratory Testing	Payment shall be Unit Rate for any field sample taken and stored for testing and reported as part of 8.2.1. Sample size shall be in accordance with NZS4402 1988 or NZS4407:1994 sufficient material of similar properties for tests listed in this schedule.
8.2.4	Benkleman Beam Testing ([20m] Spacing - Both lanes)	Payment shall be on a single lane kilometre rate for Benkleman Beam testing (with tests at nominal 20m spacing) performed and reported.
8.2.5	Falling Weight Deflectometer ([20m] Spacing - Single Lane)	Payment shall be on a single lane kilometre rate for Falling Weight Deflectometer (FWD) testing (with tests at nominal 20m spacing) performed and reported to permit assessment using Austroads generalised mechanistic procedure and the New Zealand Supplement (July 1997). Rate shall include for the provision of electronic and hard copy data.

Item	Description	
8.3	Investigation Test Pit	
8.3.1	Excavation (4m maximum)	Payment shall be Unit Rate for any Investigation Test Pit (machine excavator) of depth up to 4m performed, logged, photographed, and reported. The rate shall include for all establishment and disestablishment costs of plant and equipment, and backfilling with excavated materials.
8.3.2	Density (Field) NDM	Payment shall be Unit Rate for any field NDM density (NZS 4407:1991 Test 4.2.1 or 4.2.2) performed and reported as part of 8.3.1.
8.3.3	Disturbed sample for Laboratory Testing	Payment shall be Unit Rate for any disturbed field sample taken and stored for testing and reported as part of 8.3.1.
8.3.4	Undisturbed sample for Laboratory Testing	Payment shall be the Unit Rate for any undisturbed field sample taken and stored for testing and reported as part of 8.3.1.
8.3.5	Hand Shear Vane Test	Payment shall be Unit Rate for any hand shear vane test (peak and residual) performed in accordance with the 'Guideline for Hand Held Shear Vane Test' published by the NZGS, and reported, including any correction factor, as part of 8.3.1
8.4	Lab Testing	
8.4.1	Water Content - Natural	Payment shall be Unit Rate for any Water Content test performed and reported in accordance with NZS 4402:1986 Test 2.1.
8.4.2	Atterberg Limits (inclusive of natural moisture content)	Payment shall be Unit Rate for any Atterburg Limits test and natural moisture content test performed and reported in accordance with NZS 4402:1986 Test 2.1, 2.2, 2.3 and 2.4.
8.4.3	Grading by Wet Sieving	Payment shall be Unit Rate for any Particle Size Distribution performed and reported in accordance with NZS4402:1986 Test 2.8.1.
8.4.4	Grading by Dry Sieving	Payment shall be Unit Rate for any Particle Size Distribution performed and reported in accordance with NZS4402:1986 Test 2.8.2.
8.4.5	Grading (Fine Soils)	Payment shall be Unit Rate for any Particle Size Distribution for fine soils performed and reported in accordance with NZS 4402:1986 Test 2.8.3 or 2.8.4.
8.4.6	Consolidation Test (oedometer)	Payment shall be Unit Rate for any Consolidation test performed and reported in accordance with NZS 4402:1986 Test 7.1.
8.4.7	Triaxial (Unconsolidated Undrained (UU) -	Payment shall be Unit Rate for any Triaxial test (unconsolidated undrained, three specimens) performed and reported in accordance with NZS 4402: 1986 Test 6.2.1.

Item	Description	
	3 specimens) (38mm diameter)	
8.4.8	Triaxial (Unconsolidated Undrained (UU) - single specimen) (38mm diameter)	Payment shall be Unit Rate for any Triaxial test (unconsolidated undrained, single specimen) performed and reported in accordance with NZS 4402: 1986 Test 6.2.1.
8.4.9	Triaxial (Consolidated Undrained - 3 specimens)	Payment shall be Unit Rate for any Triaxial test (consolidated undrained, three specimens) performed and reported in accordance with NZS 4402:1986 Test 6.2.1.
8.4.10	CBR Test - Natural (Soaked or Unsoaked)	Payment shall be Unit Rate for any laboratory CBR test performed and reported in accordance with NZS 4402:1986 Test 6.1.2. A test sample may be at natural or reconstituted at field density, visually assessed optimum or such other water content as deemed appropriate and reported. Rate shall include for either soaked or unsoaked conditioning.
8.4.10a	CBR Test – Optimum (Soaked or Unsoaked)	Payment shall be Unit Rate for any laboratory CBR test performed and reported in accordance with NZS 4402:1986 Test 6.1.1 or NZS 4407:1994 Test 3.15. Determination of optimum shall be made under separate section 9.4.11 or 9.4.12 below. Rate shall include for either soaked or unsoaked conditioning.
8.4.11	Extra over 8.4.9 for Lime or Cement Modified (Optimum or Natural)	Payment shall be additional to (extra over) 8.4.9 for any materials used for a modified CBR test (lime, cement, other) performed under 8.4.9.
8.4.12	NZ Standard/Heavy Compaction Test	Payment shall be Unit Rate for any NZ Standard or Heavy Compaction test performed and reported in accordance with NZS 4402:1986 Test 4.1.1 or 4.1.2.
8.4.12a	NZ Vibrating Hammer Compaction Test	Payment shall be made at a unit rate for each test sequence using the vibrating hammer performed and reported in accordance with NZS 4402: 1986 Test 4.1.3.
8.4.13	Unconfined Compressive Strength (UCS) with modulus and Poisson ratio	Payment shall be Unit Rate for each UCS test with modulus and poisson ratio measurements performed and reported in accordance with ISRM Commission of Standardization of Laboratory and Field Tests. Suggested Methods of Determining the Uniaxial Compressive strength and Deformability of Rock Materials. Results reported shall include wet and dry density.
8.4.14	Unconfined Compressive Strength (UCS) without modulus and Poisson ratio	Payment shall be Unit Rate for each UCS test without modulus and poisson ratio measurements performed and reported in accordance with ISRM Commission of Standardization of Laboratory and Field Tests. Suggested Methods of Determining the Uniaxial Compressive strength and

Item	Description	
		Deformability of Rock Materials. Results reported shall include wet and dry density.
8.4.15	Indirect Tensile Strength Test	Payment shall be Unit Rate for each Indirect Tensile Strength Test by Brazilian Disc method performed and reported in accordance with ISRM Commission on Standardization of Laboratory and Field Tests. Suggested Methods for Determining the Tensile Strength of Rock Materials.
8.4.16	Abrasion Test	Payment shall be Unit Rate for each Abrasiveness Test by Los Angeles Abrasion method carried out in accordance with ISRM Commission on Standardization of Laboratory and Field Tests. Suggested Methods for Determining Hardness and Abrasiveness of Rocks.
8.4.17	Density of Rock Core (Bulk and Dry)	Payment shall be Unit Rate for each density test carried out in accordance with ISRM Commission on Standardization of Laboratory and Field Tests. Suggested Methods for Determining Water Content, Porosity, Density, Absorption and Related Properties and Swelling and Slake-Durability Index Properties.
8.5	Cone Penetrometer Testing	
8.5.1	Static Cone Penetrometer (CPT) Rig Establishment and Disestablishment	Payment shall be Lump Sum for the establishment and disestablishment of a 20 tonne Static Cone Penetration Test (CPT) rig and associated plant and equipment on the site.
8.5.2	CPT set-up at Test Location	Payment shall be Unit Rate for setting up at the location of each test location.
8.5.3	Extra over 8.5.2 for Preparation and Saturation of Piezocone	Payment shall be additional to (extra over) 8.5.2 for Preparation and Saturation of Piezocone.
8.5.4	CPT Test (20m Max Depth)	Payment shall be Unit Rate for the total length of CPT testing undertaken and reported in accordance with NZS 4402:1986 Test 6.5.3 (20m maximum depth). CPT logs shall include the provision of electronic and hard copies of data and calibration certificate.
8.5.5	CPTu Test (20m Max Depth)	Payment shall be Unit Rate for the total length of CPT testing carried out with the inclusion of piezometric measurements made during testing at the cone (CPTu) undertaken and reported in accordance with NZS 4402:1986 Test 6.5.3 (20m maximum depth). CPTu logs shall include the provision of electronic and hard copies of data and calibration certificate.
8.5.6	Dissipation Test (in CPTu)	Payment shall be Unit Rate for each Dissipation Test undertaken in a CPTu. Dissipation tests shall include the provision of electronic and hard copies of data and calibration certificate.

Item	Description	
8.5.7	Extra over 8.5.6 for Dissipation Test (in CPTu)	Payment shall be additional to (extra over) 8.5.6 for Dissipation Test (in CPTu).
8.5.8	Standpipe (in CPT or CPTu)	Payment shall be Unit Rate for each Simple Standpipe placed (but not grouted) in a completed CPT probe hole and shall include protective lockable cover appropriately concreted in place.
8.6	Borehole	
8.6.1	Drilling Rig Establishment and Disestablishment	Payment shall be Lump Sum for the establishment and disestablishment of a machine drilling rig and associated plant and equipment on the project site.
8.6.2	Drilling Rig Set-up at Borehole Location	Payment shall be Unit Rate for setting up at the location of each borehole within the site.
8.6.3	Wash Drilling ([50m] Max Depth)	Payment shall be Unit Rate (per metre) for the total length of wash drilling undertaken, logged and reported, including backfilling with arisings (maximum depth 50m).
8.6.4 8.6.4a	Solid Core Recovery - Soil	Payment shall be Unit Rate (per metre) for the total length of core drilling undertaken achieving a minimum core recovery of [80%] of the drilled length (maximum depth 50m).
8.6.5 8.6.5a	Solid Core Recovery – Rock	Payment shall be Unit Rate (per metre) for the total length of core drilling undertaken achieving a minimum core recovery of {80%} of the drilled length (maximum depth 50m).
8.6.6	Extra Over 8.6.5 and 8.6.5a for solid core recovery in rock at HQ size	Payment shall be Unit Rate (per metre) paid additional to (extra over) 8.6.5, for drilling/coring in rock undertaken achieving a minimum core recovery of [80%] of the drilled length at HQ size (Unconfined strength greater than 5 Mpa, or dense gravels SPT N > 50 for 150mm total penetration) (maximum depth 50m).
8.6.7	Extra Over 8.6.5 and 8.6.5a for core recovery at PQ Size	Payment shall be Unit Rate (per metre) paid additional to (extra over) 8.6.5, for drilling/coring in rock undertaken achieving a minimum core recovery of [80%] of the drilled length at PQ size (Unconfined strength greater than 5 Mpa, or dense gravels SPT N > 50 for 150mm total penetration) (maximum depth 50m).
8.6.8 8.6.8a	Standard Penetration Test (Borehole, Solid or Hollow Nose Raymond)	Payment shall be Unit Rate for each Standard Penetration Test (SPT) undertaken in accordance with NZS 4402:1986 Test 6.5.1 and reported in association with boreholes. This shall include the sample from the Hollow Nose and reporting of hammer efficiency (undertaken and conducted in accordance with ASTM D4633-10), including calibration chart.

Item	Description	
8.6.9	Down Hole Shear Vane (20m max Depth)	Payment shall be Unit Rate for each down hole Vane Shear Strength Test undertaken in accordance with BS1377-9: 1990 Amendment No 1, Methods of test for soils for civil engineering purposes Test Method 4.4, and 'Guideline for Hand Held Shear Vane Test' published by the NZGS, and reported in association with boreholes (tests to 20m maximum depth) and including drilling rig standing time.
8.6.10	50mm diameter Standpipe Piezometer (Borehole, up to [2] per Hole)	Payment shall be Unit Rate for each standpipe piezometer placed with a 2m maximum sand pocket, sealed and grouted and reported in association with boreholes, including protective lockable cover appropriately concreted in place and daily monitoring after installation for the duration of the field works.
8.6.11	Falling or Rising Head Permeability Test in Borehole	Payment shall be Unit Rate for each Falling or Rising Head Permeability Test undertaken and reported in accordance with BS 5930:1999 in a borehole and including drilling rig standing time
8.6.12	Log and Photograph Core ([40m] Max Depth)	Payment shall be Unit Rate for logging, photographing and reporting each cored hole drilled (maximum depth 40m). Rate shall include for the provision of electronic and hard copy data.
8.7	Miscellaneous and General (Client to Detail)	
8.7.1	Traffic Management Plan, Mobilisation and Demobilisation	Payment shall be Lump Sum for the production of a Traffic Risk Management Plan, Traffic Management Plan and the mobilisation and demobilisation of traffic management systems, in accordance with the New Zealand Guide to Temporary Traffic Management
8.7.2	Core storage after photographing and logging Payment shall be the Unit Rate for storage of solid core in core boxes protected from frost and excessive temperature variation and moisture migration and kept within the temperature range of +5°C and +40°C with daily temperature variation limited to 20°C	
8.8	Miscellaneous (Tenderer to Detail as Applicable)	
	Tenderers shall provide detail and the basis of payment for any tests not provided for elsewhere in the Schedule, or for testing and drilling to depths greater than those covered by the Schedule.	
8.9	Investigation and Testing Report	
8.9.1	Geotechnical Investigations and Testing Results (Factual Report)	The factual report shall contain a brief description of the works carried out, including reference to the standards adopted for works and testing, exploratory hole logs, in-situ test records, laboratory test results, site location plan and plan identifying location of exploratory hole undertaken

Item	Description
	<p>The report shall include valid calibration certificates (issued within the last 12 months at the date of testing) for SPT hammer efficiency (undertaken and conducted in accordance with ASTM D4633-10), for each and every hammer used: with applicable hammer identified on each borehole log.</p> <p>Cone Penetrometer Test cone calibration certificates shall be included for each and every cone used with test logs annotated with applicable cone. Calibration of the equipment shall be in accordance with the manufacturer's instructions and with ASTM D5778-12. The Lump Sum shall include for the locating of each exploratory hole in terms of NZ grid and longitude/latitude co-ordinates to accuracy of 1m and reduced level of the ground at the exploratory hole location and the reduced level of any standpipe or piezometer protective cover to within 0.05m. The Lump Sum shall include for uploading of data to the NZ Geotechnical Database (following approval by Waka Kotahi).</p> <p>Payment of the Lump Sum will be made on acceptance of the factual report for the geotechnical investigations.</p>
9	RANDOM VERIFICATION TESTING
P.S.	<p>The type of testing and method of payment shall be negotiated during the contract period.</p> <p><<OR if you have chosen some scheduled items>> When the final RVT schedule has been agreed, the following basis of payment sections relating to those items within the agreed schedule, will apply.</p>
S.O.R.	<p>Payment for testing shall be on a Schedule of Rates (SOR) basis. Payment shall be made on the basis of the testing results presented in the Random Verification Assessment Report Part 1 (Factual Report). Unless otherwise stated, all material descriptions shall be in accordance with the current NZ Geotechnical Society Inc. (NZGS) <i>Field Description of Soil and Rock</i>. Sampling shall be undertaken in accordance with NZS 4407:1991. Sampling and core handling shall be undertaken in accordance with the New Zealand Ground Investigation Specification, Volume 1: Master Specification. Where a different test method has been adopted, this shall be clearly stated with reasoning.</p> <p>Where the Tenderer has entered a zero rate on the Schedule for any included item or part thereof, payment for any work instructed under this item is deemed to be included elsewhere in the Pricing Schedule and no additional payment shall be made until the extent of testing specified in the full RVT Schedule has been exceeded.</p> <p>Within the schedule the following terms are defined:</p>
	<p>NZGS means The New Zealand Geological Society Inc.</p>
	<p>Logged means the assessment and identification of materials within test pits and boreholes by an appropriately qualified engineer or engineering geologist adopting the material descriptions in accordance with the NZGS <i>Field Description of Soil and Rock</i> and <i>BS5930: 2015 Code of Practice for ground Investigations</i>, British Standards Institution, for aspects not covered by the NZGS.</p>
	<p>Photograph(ed) means the provision of photographs clearly showing details of the ground conditions within investigation test pits. Exposure shall be such that the materials can be clearly seen and photographs shall include a legible reference</p>

Item	Description	
	board identifying the test location and date together with a legible scale or tape measure within the test pit. One colour print shall be provided for each test pit. Rates shall include for all necessary equipment and lighting to provide clear legible photographs and the provision of a standard colour chart with the factual report.	
	Reported means the provision of a factual report standard log checked and approved for issue and shall include for all costs associated with compiling and presenting logs. Test results shall be reported as required by the appropriate NZS or BS standard and rates shall include for all costs associated with compiling and presenting results.	
9.1	Dynamic Cone Penetrometer, and Hand Auger	
9.1.1	Dynamic Cone Penetrometer (1.5m maximum)	Payment shall be Unit Rate for any DCP up to 1.5m depth performed and reported in accordance with <i>NZS4402: 1988 Methods of Testing Soils for Civil Engineering Purposes</i> Test 6.5.2.
9.1.2	Hand Auger Excavation (4m maximum)	Payment shall be Unit Rate for any Hand Auger excavation up to 4m depth performed, logged and reported, including backfilling with excavated material.
9.1.3	Disturbed sample for laboratory testing	Payment shall be Unit Rate for any field sample taken, stored for testing and reported as part of 9.7.1. Sample size shall be in accordance with NZS4402:1986 or NZS440 1991 and sufficient material of similar properties for tests listed below.
9.2	Investigation test pit	
9.2.1	Excavation (4m maximum)	Payment shall be Unit Rate for any Investigation Test Pit (machine excavator) of depth up to 4m performed, logged, photographed, and reported. The rate shall include for all establishment and disestablishment costs of plant and equipment, and backfilling with excavated materials.
9.2.2	Density (Field) NDM	Payment shall be Unit Rate for any field NDM density (NZS 4407:1991 Test 4.2.1 or 4.2.2) performed and reported as part of 10.7.1.
9.2.3	Disturbed sample for Laboratory Testing	Payment shall be Unit Rate for any field sample taken, stored for testing and reported as part of 10.7.1.
9.2.4	Undisturbed sample for Laboratory Testing	Payment shall be the Unit Rate for any undisturbed field sample taken and stored for testing and reported as part of 9.2.1.
9.2.5	Hand Shear Vane Test	Payment shall be Unit Rate for any hand shear vane test (peak and residual) performed in accordance with the 'Guideline for Hand Held Shear Vane Test' published by the NZGS, and reported, including any correction factor, as part of 9.2.1.
9.3	Lab testing	

Item	Description	
9.3.1	Water Content - Natural	Payment shall be Unit Rate for any Water Content test performed and reported in accordance with NZS 4402:1986 Test 2.1.
9.3.2	Atterberg Limits (inclusive of natural moisture content)	Payment shall be Unit Rate for any Atterburg Limits test and natural moisture content test performed and reported in accordance with NZS 4402:1986 Test 2.1, 2.2, 2.3 and 2.4.
9.3.3	Grading by Wet Sieving	Payment shall be Unit Rate for any Particle Size Distribution performed and reported in accordance with NZS4402:1986 Test 2.8.1.
9.3.4	Grading by Dry Sieving	Payment shall be Unit Rate for any Particle Size Distribution performed and reported in accordance with NZS4402:1986 Test 2.8.2.
9.3.5	Grading (Fine Soils)	Payment shall be Unit Rate for any Particle Size Distribution for fine soils performed and reported in accordance with NZS 4402:1986 Test 2.8.3 or 2.8.4.
9.3.6	CBR Test - Natural (Soaked or Unsoaked)	Payment shall be Unit Rate for any laboratory CBR test performed and reported in accordance with NZS 4402:1986 Test 6.1.2. A test sample may be at natural or reconstituted at field density, visually assessed optimum or such other water content as deemed appropriate and reported. Rate shall include for either soaked or unsoaked conditioning.
9.3.7	CBR Test – Optimum (Soaked or Unsoaked)	Payment shall be Unit Rate for any laboratory CBR test performed and reported in accordance with NZS 4402:1986 Test 6.1.1 or NZS 4407:1994 Test 3.15. Determination of optimum shall be made under separate section 9.4.11 or 9.4.12 below. Rate shall include for either soaked or unsoaked conditioning.
9.3.8	Extra over 10.3.6 for Lime or Cement Modified (Optimum or Natural)	Payment shall be additional to (extra over) 10.3.6 for any materials used for a modified CBR test (lime, cement, other) performed under 9.3.6.
9.3.9	Hand Shear Vane Test	Payment shall be Unit Rate for any hand shear vane test (peak and residual) performed in accordance with the 'Guideline for Hand Held Shear Vane Test' published by the NZGS, and reported, including any correction factor, as part of 9.7.1.
9.3.10	NZ Standard/Heavy Compaction Test	Payment shall be Unit Rate for any NZ Standard or Heavy Compaction test performed and reported in accordance with NZS 4402:1986 Test 4.1.1 or 4.1.2.
9.3.11	NZ Vibrating Hammer Compaction Test	Payment shall be made at a unit rate for each test sequence using the vibrating hammer performed and reported in accordance with NZS 4402: 1986 Test 4.1.3.

Item	Description	
9.3.12	Unconfined Compressive Strength (UCS) with modulus and Poisson ratio	Payment shall be Unit Rate for each UCS test with modulus and Poisson ratio measurements performed and reported in accordance with ISRM Commission of Standardization of Laboratory and Field Tests. Suggested Methods of Determining the Uniaxial Compressive strength and Deformability of Rock Materials. Results reported shall include wet and dry density.
9.3.13	Unconfined Compressive Strength (UCS) without modulus and Poisson ratio	Payment shall be Unit Rate for each UCS test without modulus and Poisson ratio measurements performed and reported in accordance with ISRM Commission of Standardization of Laboratory and Field Tests. Suggested Methods of Determining the Uniaxial Compressive strength and Deformability of Rock Materials. Results reported shall include wet and dry density.
9.3.14	Indirect Tensile Strength Test	Payment shall be Unit Rate for each Indirect Tensile Strength Test by Waka Kotahi T/19.
9.3.15	Abrasion Test	Payment shall be Unit Rate for each Abrasiveness Test by Los Angeles Abrasion method carried out in accordance with ISRM Commission on Standardization of Laboratory and Field Tests. Suggested Methods for Determining Hardness and Abrasiveness of Rocks.
9.3.16	Density of Rock Core (Bulk and Dry)	Payment shall be Unit Rate for each density test carried out in accordance with ISRM Commission on Standardization of Laboratory and Field Tests. Suggested Methods for Determining Water Content, Porosity, Density, Absorption and Related Properties and Swelling and Slake-Durability Index Properties.
9.4	Miscellaneous testing	
9.4.1	Benkleman Beam Testing ([20m] Spacing - Both lanes)	Payment shall be on a single lane kilometre rate for Benkleman Beam testing (with tests at nominal 20m spacing) performed and reported.
9.4.2	Falling Weight Deflectometer ([20m] Spacing - Single Lane)	Payment shall be on a single lane kilometre rate for Falling Weight Deflectometer (FWD) testing (with tests at nominal 20m spacing) performed and reported to permit assessment using Austroads generalised mechanistic procedure and the New Zealand Supplement (July 1997). Rate shall include for the provision of electronic and hard copy data.
9.5	Miscellaneous and general (Client to detail)	
9.5.1	Traffic Management Plan, Mobilisation and Demobilisation	Payment shall be Lump Sum for the production of a Traffic Risk Management Plan, Traffic Management Plan and the mobilisation and demobilisation of traffic management systems, in accordance with the <i>New Zealand Guide to Temporary Traffic Management</i> .
9.6	Miscellaneous (Tenderer to Detail as Applicable)	

Item	Description	
	Tenderers shall provide detail and the basis of payment for any tests not provided for elsewhere in the Schedule, or for testing and drilling to depths greater than those covered by the Schedule.	
9.7	Assessment of Results and Report	
	The Random verification Assessment Report shall comprise two separate parts:	
9.7.1	Part 1: Random verification Investigations and Testing Results (Factual Report)	<p>The factual report shall contain a brief description of the works carried out, including reference to the standards adopted for works and testing, and site location plan, date and time of testing.</p> <p>Payment of the Lump Sum will be made on acceptance of the factual report for the random verification investigations.</p>
9.7.2	Part 2: Random verification Assessment (Interpretative Report)	<p>The Interpretative Report shall include the interpretation and assessment of results, and confirmation of subsequent instructions given to Contractor. This may be by way of reference to Notices to Contractor.</p> <p>Payment of the Lump Sum will be made on acceptance of the Interpretative Report for the project.</p>
10	ADDITIONAL SERVICES	
	<p>Any payment for agreed services undertaken by the Consultant deemed to be a variation shall be paid by the methods detailed below, at the Client's discretion. The Client's agreement must be obtained in advance for any Consultant initiated Additional Service.</p> <p>Method 1: Time Writing</p> <p>The Consultant shall record all costs against each task in terms of the rates priced in the Additional Services Schedule and, where applicable, shall provide the Client with an itemised assessment of the expected totals and final cost. The Client may set a ceiling for expenditure. The Consultant shall allow for the complete disclosure of all items which comprise a priced task if so requested by the Client.</p> <p>Payment will be made monthly on the basis of agreed work completed.</p> <p>Method 2: Fixed Price Quote</p> <p>Where requested, the Consultant shall provide a fixed price quote based on the rates priced in the Additional Services Schedule.</p> <p>Payment will be made as a Lump Sum on completion of the additional service. Where the Tenderer has entered a zero rate for any item, or part thereof, payment for any work instructed under this item is deemed to be included elsewhere in the schedule rates and no additional payment shall be made until the hours or kms specified against the item have been exceeded.</p> <p>Method 3: [Other]</p> <p>[insert method]</p>	
11	PROVISIONAL SUMS	

Item	Description
	Any services requested by the Client under Provisional Items shall be paid by the methods detailed in Section 10 above, at the Client's discretion, and in accordance with the following sections.
11.1	<p>Community engagement activities/ key stakeholder liaison</p> <p>The Lump Sum includes all expenses relating to liaison with the community, project neighbours, tangata whenua, and key stakeholders such as Territorial Local Authorities and Utility Services in accordance with the <i>Contract Scope</i> section 4.10. This shall include all expenses and staff attendance at events/open days, event location hire costs and catering, as well as development of any branded graphics, advertising, publications, video/multimedia tools, media releases and communications collateral as proposed and subsequently agreed in the CSEMP Plan. It shall also include the preparation and completion of Consultation Report(s), and providing administrative support for customer contact channels including updating the Stakeholder Relationship Management System (Waka Kotahi version of Consultation Manager) necessary for satisfactory completion of the project. It may also include any expenses associated with printing and delivery of communications materials using Waka Kotahi's preferred All of Government (AOG) panel supplier, if this is scoped and agreed in the <i>Community and Stakeholder Engagement Plan</i>. Payment of the Lump Sum will be prorated monthly over the contract period.</p>
11.2	<p>Consultation Report</p> <p>The Lump Sum includes all expenses relating to the preparation and completion of Consultation Report(s) required as one of the key deliverables of the Community and Stakeholder Engagement Plan (CSEMP). This shall include all expenses and resourcing required to collate feedback data and describe how Tangata Whenua, Community and Stakeholder Engagement has been used in the development of the business case or Pre-Implementation/consent package. The exact format and scope of the Consultation Report(s) will be agreed with the client as part of the CSEMP Plan.</p>
11.3	<p>Preliminary Environmental Technical Assessments</p> <p>The Lump Sum includes all expenses relating to the preparation and delivery of the preliminary technical assessments, as identified in Z/19 Taumata Taiao – Environmental and Sustainability Standard. Payment of the Lump Sum will be made on Client acceptance of the final preliminary technical assessments.</p> <p><<Guidance note: These are undertaken during the SSBC phase. >></p>
11.4	<p>Access for Geotechnical Testing</p> <p>Payment will be made on the basis of a fixed price quote, for the provision of access for the purposes of borehole and penetrometer testing.</p>
11.5	<p>Geotechnical Resource Consents</p> <p>The Consultant shall prepare and lodge appropriate applications for any Consents required to complete the approved geotechnical testing schedule. Payment will be made on acceptance of the application by the Consent Authority.</p>
11.6	<p>Heritage New Zealand Pouhere Taonga Applications</p>

Item	Description
	The Consultant shall prepare and lodge applications with Heritage New Zealand Pouhere Taonga (HNZPT) as and when required. Payment will be made on approval of the application by the HNZPT.
11.7	Wildlife Permits
	The Consultant shall prepare applications for Waka Kotahi to lodge with the Department of Conservation (DOC) as and when required. Payment will be made on approval of the application by DOC.
11.8	Cultural Impact Assessment
	Payment will be made for a cultural impact assessment undertaken in accordance with a Client agreed scope of work and price.
11.9	Statutory Authority Hearings
	Where a notified designation or consent process eventuates, the Lump Sum shall include all expenses relating to providing and presenting information and evidence to all meetings and hearings
11.10	Traffic Surveys
	Payment will be made on receipt of data for traffic site surveys undertaken where the Client requires confirmation of existing traffic and intersection volumes, including composition and delays.
11.11	HSIMS Data Input Forms<<for Implementation only>>
	The Consultant shall include all expenses relating to the production and delivery of all HSIMS Data Input Forms, in accordance with the <i>Contract Scope</i> section 7.5.7 including all necessary measure-up survey. Payment of the Provisional Sum will be made on Client acceptance of the HSIMS Data Input Forms.
11.12	Other