

# INSPECTION AND TEST PLAN CONSTRUCTION OF BRIDGE

Prepared for

<b>Client:</b>		<b>Project No:</b>	
<b>Site Address:</b>		<b>Date Issued:</b>	

ITP ITEM No.	INSPECTION / CONSTRUCTION ACTIVITY	INSPECTION / TEST / METHOD / STANDARD / SPECIFICATION	STAGE OR FREQUENCY OF SAMPLING	ACCEPTANCE CRITERIA	RECORD OF CONFORMITY	TYPE	RESPONSIBILITY	CHECKED / VERIFIED BY (INITIAL & DATE)		
								GC CIVIL	TFNSW	OTHER
PRELIMINARIES & PRE-START										
1.	Submit copy of Executed Contract	Desktop review As per Conditions of Contract, & Tender	Per contract	Return of copy of Executed Contract	Document - Contract	IP	GC Project Manager			
2.	Provision of Security	Desktop review 2% and 4% of Contract as per Conditions of Contract	Per contract	Cash, bank cheque or unconditional undertaking (bank guarantee)	Document – Bank G'tee	IP	GC Project Manager			
3.	Proof of Worker's Compensation Policy	Desktop review As per Conditions of Contract	Prior to commencing works on site	Copy of Certificate of Currency from Workers Compensation Provider	Document – Cert. of Currency	IP	GC Project Manager			
4.	Proof of Motor Vehicle & Mobile, Plant Insurance Policy	Desktop review As per Conditions of Contract	Prior to commencing works on site	Copy of Certificate of Currency from Insurer	Document – Cert. of Currency	IP	GC Project Manager			
5.	Quality Management – Inspection & Test Plan	Desktop review	Staged Submission 14 days prior to commencement of staged works	Submission and approval of controlled copy of Inspection & Test Plan	Document – ITP	IP	GC Project Manager			
6.	WHS Documentation	Desktop review	10 days prior to commencement of work at the Site	Submit WHS Plan / Safe Work Method Statements and documentation	Document – WHS Plan and SWMS	HP	GC Project Manager			
7.	Environmental Documentation	Desktop review	10 days prior to commencement of work at the Site	Submit Environmental Plan and documentation	Document – Environmental Plan	HP	GC Project Manager			
8.	Traffic Control Plan	Desktop review TFNSW TCAWSM	3 days prior to commencement of work at the Site	Submit TCP, and any ROL, SZA obtained	Document – TCP, ROL, SZA	HP	GC Project Manager			
9.	Fisheries Permit	Desktop review	10 days prior to commencement of work at the Site	Apply and obtain Fisheries Permit	Document – Fisheries Permit	HP	GC Project Manager			
10.	Public Notification	Desktop review Site inspection	10 days prior to commencement of work at the Site	Distribute written notification to businesses and residents affected by the proposed works Establish VMS signs	Document – notification	IP	Client Project Rep			
DESIGN										

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								GC CIVIL	TINSW	OTHER
11.	Global Bridge design & approach roads	Desktop review AS5100 Client review required	Before commencing fabrication or manufacture	Drawings and certification of design	Drawings  Document – Engineer certification	HP	Fairlight Engineers			
12.	Design of Inquik bridge superstructure	Desktop review AS5100 Client review required	Before commencing fabrication or manufacture	Drawings and certification of design	Drawings  Document – Engineer certification	HP	Inquik			

## MATERIALS PROCUREMENT

13.	Production of Concrete	Desktop review	Before initial production of each strength grade of concrete for the project	Submission of Concrete mix design AS 1379 The specification and manufacture of concrete AS 1012 Methods of testing concrete	Document – Concrete mix design	IP	Concrete Supplier  GC Project Manager			
14.	Reo cage manufacture	Shop Drawings Structural Drawings	Prior to transport to site	Provide Reinforcement Schedule and Certificate of Conformity	Document – Reinforcement Schedule and Certificate of Conformity	IP	Reo supplier  GC Project Manager			
15.	Inquik Bridge units	Structural Drawings Inquik shop drawings AS5100	Prior to transport to site	All bridge units / components to be inspected by Engineer	Document – Engineer Inspection report	HP	Inquik  GC Project Manager			

## SITE ESTABLISHMENT & START-UP

16.	Service & Utilities Search	Site inspection DBYD services plans	Each worksite prior to commencing any groundwork's,	Dial Before You Dig search on underground services drawings	DBYD	IP	GC Project Manager			
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			excavation or drilling of test pit / holes  All personnel involved in excavation works must be signed onto SWMS prior to commencing groundworks.  DBYD information is to be renewed every 6 months	Locate all underground and overhead utilities or services that are present near the proposed works						
17.	Set-up of Site Compound	Desktop review	Prior to On-site establishment of Contractor's compound.	Submit documented location, size and relevant approvals for Contractor's compound.	Document – layout plan	IP	GC Project Manager			
18.	Induction Training	Desktop review	Commencement of initial construction work	Attend pre-construction meeting  Verification that the site personnel have been inducted	Document – Meeting minutes and induction records	IP	GC Project Manager			
19.	Dilapidation Records	Photographic record	Prior to Commencement of construction activities.	Take photographs prior to commencement of construction activities to record the conditions of all existing structures, areas, adjoining properties, etc.  Liaise with the owners before commencing construction	Document – Dilapidation Records / photos	IP	GC Project Manager			
20.	Erosion Controls	Environmental Management Plan (EMP) Site Inspection	Before commencing any excavation work on site	Installation of erosion and silt controls as per EMP	Document - photos	IP	GC Project Manager			
<b>EXCAVATION - PILING</b>										
21.	Set-out Survey	Drawings, survey, field set-out	Each Lot, prior to commencement of pier drilling/excavation	Location, level and offset reference points Use adequate recovery pegs and survey markers to accurately set up location and alignment for each wall and pile.	Survey Records, Verification Checklist	IP	GC Project Manager  Surveyor			

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				Centre of pile positions to be pegged at least one day prior to drilling rig being set up. Datum levels for top / bottom of pile to be provided. At least two (2) working days' notice of the date the set-out will be completed.						
22.	Excavation/Pile Drilling	Structural Drawings	Per lot / pile	Notify Engineer that pile excavation is complete & pile hole/s inspection required prior to reinforcement placement. Check that the plan position, size and alignment is within tolerance Dimensions and depth as per drawings, base clean All loose material removed from the pile hole.  Provide Engineers Certificate for inspection and adequacy of load bearing capacity  Pile must bear on granite bedrock ~2000KN	Verification Checklist	HP	Design Engineer  GC Project Manager			
<b>FOOTING CONSTRUCTION</b>										
23.	Concrete Placement	Structural drawings	Prior to first Concrete pour & placement on this project	Develop a concrete placement Method Statement detailing: <ul style="list-style-type: none"> <li>Delivery rate</li> <li>Placement method and rate</li> <li>Equipment</li> </ul> Bridgeworks concreting operations shall be supervised by a person holding a TfNSW Bridgeworks Concreting Grey Card.	Verification Checklist	IP	GC Project Manager			
24.	Pre-Pour planning activities	Weather forecast	Each concrete pour	Ensure the following are in place: Weather forecast considered NATA lab tester arranged	Verification Checklist	IP	GC Project Manager			

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								GC CIVIL	TINSW	OTHER
				Concrete pump arranged (where required) Concrete type & volume established & coordinated with the supplier						
25.	Pre-Pour Check	Visual Structural Drawings	Every lot before placement of concrete to pier	Level, alignment, clearance and member designation as per Drawings Do not place concrete during rain Check delivery dockets to identify correct mix is being used, time quantity & slump recorded.	Verification Checklist	IP	GC Project Manager			
26.	Inspect the progress of concrete pour; placement of Concrete to footing	Structural Drawings Inspect delivery and compaction	Every delivery	Check addition of water to a batch Temperature at point of delivery to be 5C min 35C max. Placement of concrete – not in water, one continuous operation Maintain placement records	Verification Checklist	IP	GC Project Manager			
27.	Test Concrete for Slump & Strength	Structural Drawings AS 1379 AS 1012.3.1 AS 1012.9	Slump: Each batch Comp: 1pair/25 m <sup>3</sup>	Check frequency of field testing & sampling correct. Check and record the slump of the concrete within 45 minutes of batch time Slump within ±20mm for 100mm slump (or ±40mm if using a tremie mix with nominated slump ≥ 220mm). Compressive Strength @ 28 days one pair of cylinders per 25m <sup>3</sup> or part thereof	Document - Tester Field Sheet	TP	GC Project Manager			
28.	Obtain and check concrete test results	Structural Drawings AS 1379 AS 1012.3.1 AS 1012.9	Per lot	NATA test certificates received, reviewed and confirm the conform to minimum strength requirements	Document – Test Report	IP	GC Project Manager			

### DEMOLITION & SCOUR PROTECTION

29.	Demolition of existing bridge superstructure	Desktop review Structural Drawings	Before demolition commences	Plan demolition activities Consider WHS hazards and risks	Risk Assessment & SWMS	IP	GC Project Manager			
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				Existing piles and abutments to remain.						
30.	Scour protection	Visual Structural Drawings	Each lot	Shape earth filled batters to 2H to 1V Place A39 geotextile Place rock sized ~250-500mm sized, fill voids with smaller rocks	Verification Checklist	IP	GC Project Manager			
<b>INQUIK BRIDGE UNIT INSTALLATION</b>										
31.	Delivery of Inquik bridge units	Visual Structural Drawings	Each delivery	Check for qty Check for length / size Check for any damage	Delivery Docket	IP	GC Project Manager			
32.	Craneage of Inquik bridge units	Desktop review	Before any lifting operations	Undertake a lift study to plan the lifting of each unit	Document – Lift Study	IP	Craneage subcontractor GC Project Manager			
33.	Installation of Inquik bridge units	Visual Structural Drawings Inquik drawings	Every unit	Check member, length, R.L Level, alignment, vertically, spacing, clearance and member designation as per Drawings.  Install tie bars as per Inquik drawings	Verification Checklist	IP	GC Project Manager			
34.	Install deck panels	Inquik design manual & Drawings	Prior to installing deck panels	Inquik Bridge Panels can be placed on the abutments and cast when the abutment concrete compressive strength reaches a minimum of 25MPa.	Document – Test Report	IP	GC Project Manager			
35.	Construction traffic using new bridge	Inquik design manual & Drawings	Prior to construction traffic using the bridge deck	As per SMEC certificate, traffic can be allowed on the bridge when the superstructure concrete compressive strength reaches a minimum of 30MPa where the traffic volume is less than 150 vehicles per day	Document – Test Report	HP	GC Project Manager			
<b>CONCRETING OF INQUIK ABUTMENTS, BRIDGE DECK, APPROACH SLABS</b>										

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36.	First pour – abutments	Inquik design manual & Drawings	During first pour and prior to second pour	<ul style="list-style-type: none"> <li>Abutments to be filled in 400mm increments to nominal 1.6m high, and concrete is to be allowed to cure to 25mpa prior to installing the deck panels.</li> <li>50mpa concrete to be used</li> </ul>	Verification Checklist	WP	GC Project Manager			
37.	Second pour – abutments & bottom of deck beams	Inquik design manual & Drawings	During second pour and prior to third pour	<ul style="list-style-type: none"> <li>Fill abutments a further nominal 0.5m high</li> <li>Fill both centre deck beams from centre out</li> <li>Fill both outer deck beams from the centre out</li> <li>Concrete is to be allowed to cure to 25mpa prior to pouring deck.</li> <li>50mpa concrete to be used</li> </ul>	Verification Checklist	WP	GC Project Manager			
38.	Third pour – Bridge Deck	Inquik design manual & Drawings	During third pour and prior to traffic	<ul style="list-style-type: none"> <li>Once the deck beams have cured then fill abutments and deck slab to top of side form.</li> <li>50mpa concrete to be used</li> <li>Broom finish</li> </ul>	Verification Checklist	WP	GC Project Manager			
39.	Concrete Placement	Structural drawings	Prior to first Concrete pour & placement on this project	Develop a concrete placement Method Statement detailing: <ul style="list-style-type: none"> <li>Delivery rate</li> <li>Placement method and rate</li> <li>Equipment</li> </ul> Bridgeworks concreting operations shall be supervised by a person holding a TfNSW Bridgeworks Concreting Grey Card.	Verification Checklist	IP	GC Project Manager			
40.	Pre-Pour planning activities	Weather forecast	Each concrete pour	Ensure the following are in place: Weather forecast considered NATA lab tester arranged Concrete pump arranged (where required) Concrete type & volume established & coordinated with the supplier	Verification Checklist	IP	GC Project Manager			

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41.	Pre-Pour Check	Visual Structural Drawings	Every lot before placement of concrete to pier	Level, alignment, clearance and member designation as per Drawings Do not place concrete during rain Check delivery dockets to identify correct mix is being used, time quantity & slump recorded.	Verification Checklist	IP	GC Project Manager			
42.	Inspect the progress of concrete pour; placement of Concrete to footing	Structural Drawings Inspect delivery and compaction	Every delivery	Check addition of water to a batch Temperature at point of delivery to be 5C min 35C max. Placement of concrete – not in water, one continuous operation Maintain placement records	Verification Checklist	IP	GC Project Manager			
43.	Test Concrete for Slump & Strength	Structural Drawings AS 1379 AS 1012.3.1 AS 1012.9	Slump: Each batch Comp: 1pair/25 m³	Check frequency of field testing & sampling correct. Check and record the slump of the concrete within 45 minutes of batch time Slump within ±20mm for 100mm slump (or ±40mm if using a tremie mix with nominated slump ≥ 220mm). Compressive Strength @ 28 days one pair of cylinders per 25m³ or part thereof	Document - Tester Field Sheet	TP	GC Project Manager			
44.	Obtain and check concrete test results	Structural Drawings AS 1379 AS 1012.3.1 AS 1012.9	Per lot	NATA test certificates received, reviewed and confirm the conform to minimum strength requirements	Document – Test Report	IP	GC Project Manager			
<b>ROADWORKS</b>										
45.	Backfill abutments	Structural drawings	Each lot	<ul style="list-style-type: none"> <li>18mm Coredrain sheet at back of abutment wall</li> <li>100mm socked ag-line at base of each abutment, draining to site sump.</li> </ul>	Verification Checklist	IP	GC Project Manager			
46.	Subgrade	Structural drawings	Each lot	<ul style="list-style-type: none"> <li>Use site won or imported material with min 3% CBR</li> <li>compacted to 95% modified</li> </ul>	Delivery dockets	IP	GC Project Manager			



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					Verification Checklist Compaction records					
47.	Subbase	Structural drawings	Each lot	<ul style="list-style-type: none"> <li>• 275mm thick</li> <li>• DGS40</li> <li>• Min 30% CBR</li> <li>• compacted to 98% modified</li> </ul>	Delivery dockets Verification Checklist Compaction records	IP	GC Project Manager			
48.	Basecourse	Structural drawings	Each lot	<ul style="list-style-type: none"> <li>• 100mm thick</li> <li>• DGB20</li> <li>• Min 80% CBR</li> <li>• compacted to 98% modified</li> </ul>	Delivery dockets Verification Checklist Compaction records	IP	GC Project Manager			
49.	Table drains	Structural drawings	Each lot	<ul style="list-style-type: none"> <li>• Drain towards creek</li> <li>• 2m batter 1 in 4 from road</li> <li>• 1 in 2 batter up to existing surface</li> </ul>	Verification Checklist	IP	GC Project Manager			
50.	Approach slabs	Structural drawings	Each lot	<ul style="list-style-type: none"> <li>• 28 dia. Stainless steel dowel bars G250Mpa @ 250mm centres, Chemset 501 250mm embedment into deck panel</li> <li>• 2 x N24 bars site welded across tops of all dowels</li> <li>• Pour hard against Inquik deck panel, and seal joint</li> <li>• 300mm thick approach slab</li> </ul>	Verification Checklist	IP	GC Project Manager			
51.	Spray Seal	Structural drawings	Each lot	<ul style="list-style-type: none"> <li>• Two coat flush seal</li> <li>• 14mm / 7mm</li> </ul>	Delivery dockets Verification Checklist	IP	GC Project Manager			
52.	Guardrail	Structural drawings Safe Direction shop drawing	Each lot	<ul style="list-style-type: none"> <li>• Thrie Beam barriers on bridge</li> <li>• Transition to W-beam Bridge approach guardrails</li> <li>• Fleet TL6 terminals</li> </ul>	Delivery dockets Verification Checklist Compaction records	IP	Guardrail installer  GC Project Manager			

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53.	Line marking	Structural drawings	Each lot	<ul style="list-style-type: none"> <li>Edgeline E1 – 150mm wide line</li> <li>Dividing barrier line BB – 100mm wide line 100mm gap</li> <li>Semi flexible guideposts as per TfNSW Delineation Manual Section 16</li> </ul>	Delivery dockets Verification Checklist Compaction records	IP	GC Project Manager			
<b>DISESTABLISHMENT &amp; PROJECT CLOSE-OUT</b>										
54.	Disestablishment	Visual	Prior to disestablishment of plant from site	<ul style="list-style-type: none"> <li>All rubbish &amp; excess materials removed off site</li> <li>Areas graded with appropriate falls for natural drainage without undulation</li> </ul>	Document - photos	IP	GC Project Manager			
55.	Practical Completion	Visual Inspection Client inspection required	Completion of Works	<p>Conformance to Drawings and Contract Documents including close out of any non-conformance</p> <p>Conduct a joint inspection, to be undertaken with Client to confirm asset completion and handover</p> <p>Any defects raised must be actioned prior to Final Completion item</p> <p>Confirm bridge concrete strength has reached 50Mpa before opening to public traffic</p>	Document – Certificate of PC  Test Reports	IP	GC Project Manager  Client Project Rep			
56.	Work-As-Executed Survey	Survey Measurement	Each lot	Survey of completed bridge structure location & level	Work-as- executed survey file	IP	GC Project Manager  Surveyor			
57.	Work-As-Executed Drawings	Drawings Site Records Measurement	Each lot	<p>Mark up any changes to Design Drawings</p> <p>On completion of construction, provide the Project Representative with a set of "Work-as-Executed" drawings, incorporating approved modifications made to any details during construction</p>	Work-as- executed drawings	IP	GC Project Manager			

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								GC CIVIL	TINSW	OTHER
58.	Inquik Material Data Record (MDR)	Desktop review	Completion of Works	On completion of construction, provide Inquik MDR	Document – MDR, Inquik install checklists	HP	Inquik  GC Project Manager			
59.	Final Completion	Drawings and Contract Document	Completion of Contract	Conformance to Drawings and Contract Documents including close out of any non-conformance	Document – Final Completion Certificate	HP	GC Project Manager			

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### LEGEND AND SIGN-OFF

INSPECTION REQUIREMENT		RESPONSIBILITY	RECORDS	RECORDS
		<u>GC CIVIL</u>		
AP	Approval Point (Written or verbal approval must be given)	PM Project Manager	CC Contract Correspondence	HR Hold Point Release
HP	Hold Point (work shall not proceed until the HP is released)	PQR Project Quality Representative	CD Contract Documents	MR Maintenance Report
WP	Witness Point (give notice to allow inspect)	CM Construction Manager	COC Certificate of Currency of Insurance	NCR Non-Conformance Report
IP	Inspection point (Formal Inspection to be done and recorded)	SM Site Manager	CPC Certificate of Practical Completion	PER Permit
TP	Test point (Product compliance test to be undertaken and recorded/reported)	TL Team Leader	CR Construction Records	PC Proof Engineer's Certificate
		<u>CLIENT (XXXXX)</u>	DD Delivery Documents	QCC Quality Control Checklists
		CPR Client's Project Representative	DR Structural Design report	QMP Quality Management Plan
		CSR Client's Site Representative	DWG Drawings	ROL Road Occupancy License
		SR Superintendent's Project Representative	DWR Daily Works Record	SI Site Instruction
		SO Surveillance Officer	EC Engineer's Certificate	SV Survey Record
		<u>PROJECT CONSULTANTS</u>	EMP Environmental Management Plan	SZA Speed Zone Authorization
		RS Registered Surveyor	ESCP Erosion & Sedimentation Control Plan	TR Laboratory Test Report
		GE Geotechnical Engineer	FC Final Certificate	TCP Traffic Control Plan
		SD Structural Design Engineer	GR Geotechnical Report	TMP Traffic Management Plan
		PE Proof Engineer	BR Building Report	VMP Vehicle Movement Plan
		<u>OTHER</u>		WAE Work-As-Executed Drawings
		SUB Subcontractor		
		SUP Supplier		
		NL NATA Certified Testing Laboratory		
		TMC TFNSW Traffic Management Centre		
		PR Client Project Rep		

Amendment	Date:	Reviewed:	Validation	Acceptance
			I certify that the works have been constructed in accordance with this Inspection & Test Plan	I have inspected and accept the completed works have been constructed in accordance with this Inspection & Test Plan
			GC Civil Representative:	Client's Project Representative:
			Signed:	Signed:
			Date:	Date:

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