

	<b>Inspection and Test Plan - Control and Supervision of the Works</b>	<b>Document #</b> <b>ITP-010</b> Revision : 1      15/08/24
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<b>Client:</b> SGSC <b>Project:</b> Sanders Road <b>Contract No:</b>	<b>Construction Process:</b> <i>Bored Piling</i> <b>Specifications:</b> VicRoads Standard Specification Section 705 <b>Structure / Component:</b> Retaining Wall <b>Location:</b>	<b>Prepared by:</b> Name: <b>Ruby Lewis</b> Signed : Date : 15/08/24	<b>Reviewed by:</b> Name: <b>Cameron Beattie</b> Signed : Date : 15/08/24	<b>Approved by:</b> Name: <b>Cameron Beattie</b> Signed : Date : 15/08/24
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<b>Lot No:</b>	<b>Lot Details:</b>	<b>Lot Size/Quantity:</b>
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Item No.	Task/Activity Description	Inspection / Controls and Verification Detail						HP/ WP/ AP/ IP/ TP/ SCP	Responsibility Project Engineer Site Engineer Superintendent Surveyor Foreman	Checked by:			
		Frequency	Acceptance Criteria	Reference Documents	Inspection / Test Method	Record of conformity	Client			Fulton Hogan	FH's Sub-contractor	Date	
1.0	Design and Submissions												
1.1	Check for correct documetation	Before commencement of activity	Check correct documentation is being utilized (latest drawing revision) and IFC/ Proof Engineering	Drawings	Current revision of drawing	Current revision of drawing	HP*	Project Engineer Site Engineer	N/A				
1.2	Approval of Mix Design	No less than 4 weeks prior to commencement of activity	Mix design reviewed and approved by superintendent.	CI 610.07(b)	Approval	VicRoads letter of approval	AP	Superintendent					
1.3	Approval of Quality Procedure	No less than 4 weeks prior to commencement of activity	Proposed materials and pile construction procedures reviewed by the superintendent	CI 606.03(a)	Approval	VicRoads letter of approval	HP	Superintendent					
1.4	Ensure Traffic, Safety, Quality and Environmental management measures are in place	Prior to commencement of activity. EMP at least 2 weeks prior	Safety plan, traffic management plan and environmental management plan	PSP, TMP & EMP	Ensure all measures in place as per plan	Inspection	HP	Site Engineer Superintendent					
1.5	Certification of approved Hot Dip Galvanising	Prior to Epoxy coating	Galvanising treatment in accordance with appropriate Standard documents and Design specification 200 microns	Drawings AS/NZ4680	Verify	Manufacturers certificate	HP*	Project Manager Site Engineer	N/A				
1.6	Certification of approved Epoxy coating	Prior to arrival on site	Epoxy treatment in accordance with appropriate Standard documents and Design specification 2 x Base Coat GFX @ 250 microns 1 x Top Coat Polyurethane, 100 microns	Drawings AS2312	Verify	Manufacturers certificate	HP*	Project Manager Site Engineer	N/A				
2.0	Bored Piling												
2.1	Survey and setout	Each Pile	Survey and confirm position and depth as per drawing	Drawings	Survey	This ITP Signed off	IP	Site Engineer Geotechnical Engineer	N/A				
2.2	Excavation Levels	Each Pile	Check the excavation levels and base are acceptable and conform to the drawing prior to commencement of piling works.	Drawings	Verify	Drilling check sheet	HP	Site Engineer Geotechnical Engineer	N/A				

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2.3	Inspection of Pile Excavation	Each Pile	First 3 piles to be inspected by Geotechnical Engineer to check dimensions and toe level are correct and within tolerance. Correct Toe level. Material encountered consistent with design.	Drawings CI 606.06	Inspection / Test Method	This ITP Signed off	HP	Site Engineer Geotechnical Engineer	N/A			
2.4	Bore Logs	Each Pile	All bore logs and pile installation records to be sent to and reviewed by designer	Bore logs	Verify	Drilling check sheet	HP	Site Engineer Geotechnical Engineer	N/A			
2.5	Spacers installed on Reinforcement Cage	Each Pile	Spacers/supports to be placed along steel reinforcement at a maximum 2m intervals	CI 611.10	Inspection	This ITP Signed off	HP*	Site Engineer Superintendent				
2.6	Inspection of column and cage height and centre	Each Pile	Ensure heights, centre and spacing of reinforcement cage and column are in accordance with drawings and within tolerance	Drawings CI 606.08	Inspection	This ITP Signed off	IP	Site Engineer Superintendent				
3.0	<b>Placing and Finishing Concrete</b>											
3.1	Quality Checks	Prior to each concrete pour	Relevant ITPs and Quality Control checklists completed and reviewed	CI 610.18	Inspection	This ITP Signed off	HP	Site Engineer Superintendent				
3.2	Carry out sampling of concrete	Each concrete pour	Sampling in accordance with 610.16 Slump: As per VR450/50 mix 675mm (+/- 125mm) (550mm - 800mm)	CI 610.16 Table 610.161	Verify	Checklist	IP	Site Engineer	N/A			
3.3	Record location of each batch	Each concrete pour	Batch location recorded	CI 610.15	Verify	Checklist	IP	Tester	N/A			
3.4	7 Day concrete test result	Each sample	Concrete cylinder test samples: 7 day concrete strength achieved of 35MPa	CI 610.05	Test Report	This ITP Signed off	TP	Site Engineer	N/A			
3.5	28 Day concrete test result	Each sample	Concrete cylinder test samples: 7 day concrete strength achieved of 50MPa	CI 610.05	Test Report	This ITP Signed off	TP	Site Engineer	N/A			
3.6	Tolerance Check and As Built Survey	Each Pile	Check tolerances and survey pile positions. Mark all details correctly on as-builts. Pile head position and verticality	CI 605	Survey	Survey report	WP	Site Engineer	N/A			

#### Final Inspection

The signature below verifies that this ITP has been completed in accordance with the FH's Quality system Procedures and verifies lot compliance with specifications.

Print Name:

Position:

Signature:

Date:

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#### Legend

<b>HP</b>	Hold Point	Work shall not proceed past the HP until released by the Superintendent	<b>IP</b>	Inspection point	Formal Inspection to be done and recorded
<b>HP*</b>	FH Hold Point	Work shall not proceed past the HP* until released by FH	<b>TP</b>	Test Point	Product compliance test to be undertaken and recorded/reported
<b>WP</b>	Witness Point	An inspection which must be witnessed by the Superintendent	<b>SCP</b>	Survey conformance point	A qualified surveyor to check product/section/structure and report
<b>AP</b>	Approval Point	Written or verbal approval given by the Superintendent			