Fulton Hogan	Inspection and Test Plan - SUP Installation (HCC)	Document # 1145-C200-FUL-QAC-ITP-0085 Revision: 00 Date: 06/02/2024

Client:	MRPV	**Construction Process:**	SUP Installation (Hume City Council)	Prepared by:		Reviewed by :		Approved by :
Project:	Craigieburn Road Upgrade	**Specifications:**	EDCM 401	Name:	Omar El Khub	Name:	Emersen Tamura-Paki	Name: Nicola Lodo
Contract No:	CONS-1145	**Structure / Component:**	Shared Use Path (Hume City Council)	Position:	Project Engineer	Position:	Project Engineer	Position: Completions Manager
		Location:		Date :	7/07/2022	Date :	1/02/2024	Date : 5/02/2024

Lot No:	ITP-085-AX-LOT-XXX	**Lot Title:**	ITP-085-AX-LOT-XXX - Desc	**Location:**	**Lot Size/ Quantity:**	**Lot Opened Date:**

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			Superintendent	Fulton Hogan	FH's Sub-contractor	Date
1	**Preliminary Works**											
1.1	Check that current revision drawings are being used	Prior to Commencing	Issued For Construction (IFC) and latest available revision used	Project Drawings / Drawing Register	Document review	Latest Revision Drawings	**AP**	Site Engineer / Site Foreman	N/A		N/A	
1.2	Bedding Material / Base Layer	Once, for each mix design, prior to placement of material	20mm Class 3 bedding material conforms to specified requirements applicable to the class of product as detailed on the drawings. Material is registered with VicRoads in accordance with Code of Practice RC500.02. **Enter: Teambinder Material Approval number [free text box]**	IFC Drawings 703.21 812.04	Document Review	Teambinder reference number	**IP**	Site Engineer Superintendent	N/A		N/A	
1.3	Concrete Mix	Once, for each mix design, prior to placement of concrete	Concrete mix meets strength, grade, and maximum aggregate size as detailed on the drawings. Paving concrete mix conforms to AS1379. SUP concrete mix is registered with VicRoads. No air entraining chemical admixtures shall be used without approval from the Nominated Authority. Concrete mix designs shall remain valid for 12 months from the date of registration, unless constituent materials and material proportions cease to comply with the specified requirements. **Enter: Teambinder Material Approval number [free text box]**	IFC Drawings 703.05 (a) 703.07	Document Review	Teambinder reference number	**IP**	Site Engineer	N/A		N/A	
1.4	Evaporative Retardant	Once, for each product, prior to placement of concrete	Details of evaporative retardant, application procedure (including application rates) to be submitted for review to the Nominated Authority. **Enter: Teambinder Material Approval number [free text box]**	703.09	Document Review	Teambinder reference number	**IP**	Site Engineer	N/A		N/A	
1.5	Curing Compound	Once, for each product, prior to placement of concrete	Details of curing compound and NATA test certificate stating compliance with AS3799 no more than 3 years from issue, to be submitted for review to the Nominated Authority. **Enter: Teambinder Material Approval number [free text box]**	703.10 (a)	Document Review	Teambinder reference number	**IP**	Site Engineer	N/A		N/A	

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2	**Construction Works**											
2.1	Temporary Drainage Provisions (if required)	Prior to Commencing	Before obstructing any waterway, channel or culvert, the Contractor shall make appropriate provision for its temporary diversion, and obtain prior written approval from the relevant waterway authority. The Contractor shall make provision for the safe discharge of drainage and stormwater at all times during construction.	IFC Drawings VicRoads Spec Cl.703.18	Site Inspection	Written approval from relevant waterway authority ITP Signed	**AP**	Supervisor / Site Engineer	N/A		N/A	
2.2	Pavement Thickness Increases for Crossings	Prior to Commencing	Where applicable, excavation to allow for increase in the bedding and slab thicknesses at: i. Pram crossings ii. Vehicle crossings (residential and/or commercial) iii. Established / existing mature trees Consult the Relevant Council drawings for dimensional tolerances for thicknesses, grades and ramp lengths.	IFC Drawings VicRoads Spec 703.16 703.24 EDCM 401	Site Inspection	ITP Signed	**IP**	Superintendent/ Supervisor / Site Engineer	N/A		N/A	
2.3	Bedding Preparation	Each Lot	All bedding material shall be as specified on design drawings. Where not specified, bedding material used for cast in place concrete paving works shall be compacted size 20 mm Class 3 or Class 4 crushed rock or Class 3 or Class 4 crushed concrete, manufactured and supplied in accordance with Sections 812 or 820 respectively. Bedding to be mechanically compacted. Immediately before concrete is placed, the bedding shall be moist but shall have no free water on the surface.	VicRoads Spec Cl.703.21 812, 820 IFC Drawings	Site Inspection	ITP Signed	**IP**	Supervisor / Site Engineer	N/A		N/A	
2.4	Formwork	Prior to Commencing	Prior to placing concrete in an earth excavation, formwork shall be erected so that fresh concrete is not placed directly against the sides of the excavation.	VicRoads Spec Cl.703.12	Site Inspection	ITP Signed	**IP**	Supervisor / Site Engineer	N/A		N/A	
2.5	Steel Reinforcement	Prior to Commencing	Steel reinforcement shall be placed in accordance with drawings and AS/NZS 4671. If not specified, mesh shall be placed as per VicRoads Spec Cl. 703.16. The minimum cover of any steel reinforcement to the nearest concrete surface shall be 50 mm unless shown on the drawings. Reinforcement shall be supported using either concrete or plastic chairs.	VicRoads Spec Cl.703.13 & Cl.703.13 AS/NZS 4671	Site Inspection	ITP Signed	**IP**	Supervisor / Site Engineer	N/A		N/A	

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Contract No:	CONS-1145	**Structure / Component:**	Shared Use Path (Hume City Council)	Position:	Project Engineer	Position:	Project Engineer	Position:	Completions Manager
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2.6	Pre-pour inspection	Each Lot	Inspection to ensure that forms, reinforcement dowels and other embedments conform to the requirements of the specifications and drawings. The Superintendent will review and confirm the set out. The work shall be constructed in accordance with the confirmed set out to the line and level and cross-sectional profiles as shown on the drawings.	VicRoads Spec Cl.703.05 Cl.703.09 Cl.610.17 (a)(b) (c)(d) 703.17 AS 1379	Site Inspection	ITP Signed	HP	Project Engineer, Superintendent/ Council & Surveyor			N/A	
2.7	Concrete Testing	Each Lot	**Concrete Testing Frequency:** 0m³ to 50m³ = 1 sample Each sample shall consist of 1 no. slump test and 2 no. compressive strength cylinders minimum. Compressive strength cylinders = 2 no. 28 day strength. **Slump Testing Tolerances:** <60mm = ±10mm ≥60mm to ≤80mm = ±15mm >80mm to ≤110mm = ±20mm >110mm to ≤150mm = ±30mm >150mm = ±40mm	VicRoads Spec 703.11	Site Inspection	Concrete Pour Record ITP Signed	IP	Supervisor / Site Engineer	N/A		N/A	

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Contract No:	CONS-1145	**Structure / Component:**	Shared Use Path (Hume City Council)	Position:	Project Engineer	Position:	Project Engineer	Position:	Completions Manager
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2.8	Curing	Each Lot	The curing of exposed concrete surfaces shall commence immediately after finishing operations are progressively completed and shall continue uninterrupted for a period of not less than 7 days after placing the concrete Concrete shall be cured either by water curing, wet hessian, polyethylene sheeting which is adequately sealed, curing compound or a combination of these	VicRoads Spec Cl. 703.10	Site Inspection	ITP Signed	IP	Supervisor / Site Engineer	N/A		N/A	
2.9	Tolerances	Each Lot	Concrete paving to match existing fixtures (e.g. pit covers, edgings and vehicle crossings) within 5mm. Deviation of finished work shall not exceed; 10mm from line or level; or 5mm from a 3m straightedge for curves and shaped areas. Deviation of section dimensions shall not exceed 5mm (except for overall width); 25mm for the overall width; and +/- 3mm for dimensions less than 25mm.	VicRoads Spec. Cl 703.15	Site Inspection	ITP Signed	IP	Supervisor / Site Engineer	N/A		N/A	
2.10	Joints	Each Lot	Expansion Joints: shall be placed at intervals as specified by the drawings. Control Joints: at least 25% of the paving thickness deep and 5 mm wide shall be formed with a cutting tool at 2.5 m intervals along the full width of footpaths, other surfacings and shared use paths. Between Concrete Paving and Shared Use Path: Except for medians <2.0m wide, bonding between the concrete paving or shared use path and the edging shall be prevented by painting the back of the edging with bitumen, or by using a strip of bituminous felt (ableflex).	VicRoads Spec Cl. 703.26 (b) EDCM 401 IFC Drawings	Site Inspection	ITP Signed	IP	Supervisor / Site Engineer	N/A		N/A	
2.11	Stripping Formwork	Each Lot	Formwork shall not be stripped until the minimum times have elapsed from the time of completion of the placing of concrete: i. 2 days for vertical formwork on external surfaces; and ii. 1 day for vertical forms on permanently hidden surfaces	VicRoads Spec 703.12 AS3610 Table C2	Site Inspection	ITP Signed	IP	Supervisor / Site Engineer	N/A		N/A	
2.12	Protection of Newly Poured Concrete	Each Lot	All concrete shall be protected from damage from early loading by pedestrians, animals, vehicles and from rain or any other cause. Suitable flagging, signage or bunding shall be erected to prevent vehicles from crossing over residential and/or commercial vehicle crossings a minimum of four days after completion of casting of the concrete. Vehicles greater than 1.5 tonnes may be permitted to cross after 7 days.	VicRoads Spec 703.27	Site Inspection	ITP Signed	IP	Supervisor / Site Engineer	N/A		N/A	
3	**Post-Construction**											
3.1	Survey data captured for as-built purposes	Completion of each lot	Survey to ensure and validate that all works meet level and location requirements. Review of existing survey control marks and any additional control marks providing verification of conformity of as constructed features with design. As built survey recorded to confirm installation within tolerances in the latest IFC drawings.	IFC Drawings / survey records	Document review	As-built survey records	SCP	Project Engineer	N/A		N/A	

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3.2	Cracking of Concrete	Each Lot	The concrete shall have no surface cracks at any stage after construction of width greater than 0.2 mm. Cracked sections of concrete shall be either removed and replaced, or repaired in accordance with Section 687	VicRoads Spec. Cl. 703.30 687	Site Inspection	ITP Signed	IP	Supervisor / Site Engineer	N/A		N/A	
3.2	Compressive Strength Test Results	Completion of each lot	28 day compressive strength (average of the 2 no. cylinders) per sample comply with the design strength. Note: 1 of the 2 no. 28 day cylinders per sample may be as low as 90% of the required strength, so long as the average meets the required strength.	IFC Drawings Relevant Council Drawings 703.11	Site Inspection	Attach: Compressive Strength Test Results	IP	Supervisor / Site Engineer	N/A		N/A	
3.3	Backfilling	Completion of each lot	Where required, as soon as concrete has cured sufficiently and not earlier than three days after placing, topsoil shall be placed and firmly compacted in layers not exceeding 150mm and to a width not less than 300mm behind the edging to the top of the edging.	VicRoads Spec. Cl 703.29	Site Inspection	ITP Signed	IP	Supervisor / Site Engineer	N/A		N/A	

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4	**Completion**											
4.1	As-built Survey	Completion of each lot	Provide record of dimensional measurements to demonstrate that all Works meet level and location requirements within the tolerances below: Departure from RL = ±10mm Departure from alignment = ±10mm Rate of change of deviation from RL or alignment = 10mm in 10m Irregularities in alignment = 5mm in 3m Section dimensions = ±5mm Section dimensions (less than 25mm) = ±3mm Width of pavement = -5mm, +15mm Where median surfacings are to be constructed between edge sections of the same level, paving shall be crowned to produce a crossfall between 1% and 3% towards the edges. Attach: Survey As-builts / Survey Report	IFC Drawings VicRoads Spec 703.15	Document Review	ITP Signed	**IP**	Site Engineer	N/A		N/A	
4.2	Red-Line Markup	Completion of each lot	Capture any changes in design or RFI's as per approved red-line markup procedure	Quality Management Plan	Document Review	ITP Signed	**IP**	Site Engineer	N/A		N/A	
4.3	Non-conformance Report (NCR) Closure	Completion of each lot	Ensure that any NCRs pertaining to the lot / element / Work area that this ITP covers, have been closed in CAMs.	Quality Management Plan	Document Review	ITP Signed	**IP**	Site Engineer	N/A		N/A	

Notes

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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:

Work Completed On:

Legend

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