

Client		TfNSW		ITP CHECKLIST FOR: Stormwater Drainage Installation (R11)	Work Area:	
Contract No. #		21.0000139295.2750				
Workplace Name		New Dubbo Bridge Early Works			ITC 02 (ITP 02)	
Revised by:		Syed Shah			Rev 1	
Approved by:					Underlying Lots: 0	
Activity No.#	Description	Requirements / Reference	Acceptance Criteria	Inspection	Comments / Attachments	
1	Preparation works	WHSMP, Design DWGs	Contact DBYD and complete excavation permit Extent of works set out with survey pegs			
2	Delivery of Box Culvert	R16 CI2 AS1597.2	HP: Design requirements and procedures of AS 1597.2 submission Include in the design records, the calculations produced during both the design and verification processes.		• <u>HOLD POINT:</u> _____	
3	Delivery of Box Culvert	R16 CI3 AS1597.2	HP: Design based on load testing, provide certification, supported by testing and calculation records, demonstrating that the design complies with the requirements of AS 1597.2 for each different culvert / load combination.		• <u>HOLD POINT:</u> _____	
4	Crack Serviceability Test for Box Culvert	R16 CI5 AS1597.2 B80	WP: Sample and test for concrete strength in accordance with TfNSW B80. Certificate of compliance in respect of test loads and other relevant details supported by verification checklists.		• <u>Witness Point:</u> _____	
5	Supply of Precast Concrete Members	R11 CI 2.4.1	HP: Submission of certified product drawings and details of methods for manufacture, testing and installation, prior to the supply of precast concrete members subject to traffic and/or earth pressure loading, or water retaining structures with capacity greater than 25 000 litres		HOLD POINT: _____	
6	Certificates of Conformity	R11 CI 2.6	HP: Certificate of Conformity (Pit / Headwall) HP: Certificate of Conformity (Box Culverts) Submission of certificate of conformity prior to incorporation in the works of any supplied manufactured drainage product		HOLD POINT: _____ HOLD POINT: _____	
7	Supply of Rip Rap material	R11 CI 3.4.4	HP: Details regarding the properties and source of the rock rip rap as per R11 CI 3.4.4.		HOLD POINT: _____	
8	Survey Set Out	R11 CI 4.1.1	HP: Notification of set out of drainage system and any proposed design changes in locations and levels		HOLD POINT: _____	
9	Unable to meet Min. Grade	R11 CI 4.2.1	HP: Notification that 0.5% minimum grade cannot be achieved for section(s) of open drains (if applicable)		HOLD POINT: _____	
10	Excavation	R11 CI 4.3	WP: Excavation for Box Culvert installation and other drainage structures		WITNESS POINT: _____	
11	Unsuitable Foundation	R11 CI 4.3.3 Table R11.2	HP: Replacement of inadequate foundation material (if applicable) Notify the principal of any unsuitable foundation material on the base of the trench, or poor quality material on the sides of the trench. Replace and compact material in consultation with principal		HOLD POINT: _____	

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12	Installation of Drainage	R11 Cl 4.4.1, Table R11.2	95% compaction requirement for base of trench and layers around pipe Material for pipe bedding and haunch zones is Type BH Select Fill Material for pipe side and overlay zones is Type SO Select Fill		T166 / T173 Test Report
13	Construction	R11 Cl. 4.7	WP: Construction of drainage structures other than box culverts		WITNESS POINT: _____
14	Protective Measures	R11 Cl. 4.10, TfNSW G2	HP: Protective measures for pipes and box culvert structures from heavy construction plant or vehicles If structures will be subject to heavy construction loading prior to completion, submit protective measures to principal for approval		HOLD POINT: _____
15	Backfill and Compaction	R11 Cl. 4.9, R44	Above the pipe overlay, backfill with general fill material or other material accepted by principal Backfill in 150mm layers unless directed otherwise by the principal 95% compaction for general backfill, 102% compaction required if adjoining SMZ layer (R44)		T173 Test Report
16	Completion	R11 Cl. 5.2	Survey pickup of asbuilt pit inverts (downstream and upstream) and pit locations. Survey report provided and any NCRs raised, changes picked up on WAE drawings		Survey Conformance Report

REVIEW						
Any non-conformances?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	Nos:	Closed Out	<input type="checkbox"/> YES	<input type="checkbox"/> NO
All work has been satisfactorily completed			<input type="checkbox"/> YES		<input type="checkbox"/> NO	
Name			Signature		Date	
QA ENGINEER / SPE / PE SIGN OFF						
Name			Signature		Date	