## MINIMUM QUALITY ASSURANCE TESTING REQUIREMENTS COLD IN-PLACE RECYCLED (CIR)

TEST CIRQA/12		STANDARD	MINIMUM FREQUENCY	
SAMPLING & FORMING MARSHALL BRIQUETTES  1. Loose CIR Mix (Sampled by the Contractor)		ATT-37	Three per Lot	
2.	150 mm by 150 mm Slabs or 150 mm diameter cores (Obtained by Contractor) Stratified random locations provided by the Consultant.	ATT-56 ATT-5	Each Lot One per Segment	Daily Compaction Report - CIR
MATER 1. 2. 3. 4. 5. 6.	Field formed Marshall briquettes (Performed by the Contractor)  CIR Mix Moisture Content (Determined by the Contractor)  Slab/Core Moisture Content (by Consultant)  Bulk Density of Marshall briquettes (Determined by the Contractor)  Bulk Density of Slab/Core Samples (by Consultant)  Percent Compaction of CIR Mat (Determined by the Consultant)	ATT-13 75 blows at room temperature ATT-15, Part II ATT-15, Part II ASTM D1188 ASTM D6752 ATT-67	Each CIR Mix Sample  Each CIR mix sample  Each Core/Slab sample  Each formed specimen  Each slab or core specimen  One per Segment	QC Marshall densities and CIR mix moisture results are to be provided to the Consultant.  All QC and QA results to be reported on the Daily Compaction Report - CIR
CIR SUI	RFACE Smoothness (Three metre straightedge to be provided by the Contractor)		Check for surface deviations in excess of specification limits.	
REPORTING 1. CIR Mix Designs		Submit verified CIR mix designs to Project Sponsor and email to trans.constructqa@gov.ab.ca		
2.	Daily Inspection Report	Completed by the Contractor as per section 3.56.6 Quality Control of Specification 3.56 Cold In-Place Recycling. Include as part of the Final Details submission.		
3.	Densities, Percent Compaction and Moisture Contents.	Complete Daily Compaction Report - CIR. Submit to Project Sponsor along with other construction weeklies. Email to Surface Engineering & Aggregates section at trans.constructqa@gov.ab.ca.		

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