

Structural Concrete QC/QA Specification

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Structural Concrete QC/QA

- History
- Update current progress
- Issues encountered
- Planned implementation
- Question and Comments



History

- **December 2010 – Decision Document**
 - Chief Engineer Rick Land and Steve Takigawa Deputy Director of Maintenance and Operations
 - Provided direction to shift responsibility for QC of Structural Concrete away from Caltrans and to the Contractor
- **Rock Products Committee**
 - Materials and Quality Assurance sub-task group
 - QC/QA Project Team

Pilot Specification

11-4 CAST-IN-PLACE STRUCTURAL CONCRETE MATERIALS

For CIP concrete members in Stand. Spec. Sections 49 and 51 (except minor concrete)

- QC/ QA
 - Specified min. Contractor QC Testing
 - Caltrans performs verification testing
 - Used together for acceptance
- Electronic submission of results

Data Interchange For Materials Engineering (DIME)



Pilot Program – Structural Concrete QCQA

	Project EA	Project Common Name	
1	03-0F2204	ED-50 Sly Park Rd Undercross	
2	04-235624	San Francisquito Bridge	
3	04-4A0904	NAP-29 Troutdale Creek Bridge	
4	06-342524	FRE-180 King's Canyon Expressway	
5	07-1193U4	I-10 HOV (Seg 3)	
6	07-215924	LA-5 Widening Valley View Ave	
7	07-215954	LA-5 Widening Florence Ave Project	
8	08-0N5904	SBD-40 Replace Van Winkle Wash	
9	11-2T1824	SD-805 Palomar DAR	
	Going	Advertised	To Be Advertised



Issues Encountered

- QC personnel lack authority to reject material
- Inadequate QC testers on large pours
- DIME working well – need more training
- ACI certification difficult to schedule and manage
- Availability of AASHTO accredited laboratories.



Quality Control Program

- Complete Pilot Program
- Refinement and Statewide implementation by January 2015.
 - Recommendations report to the Chief Engineer
 - Certification process of CT inspectors
 - AASHTO accredited CT laboratories
 - Guidance material and manual updates



Questions? Comments?

