Colorado Procedure 16-15

Standard Practice for

Management of CDOT & Consultant Materials Testing

1. SCOPE

This procedure contains a summary of the responsibilities and the process for developing the consultant materials testing contract and administering task orders. Also contained in this procedure are examples of the forms for management and evaluation of consultant materials testing on CDOT projects.

2. SUMMARY OF RESPONSIBILITIES AND PROCESSES

The Region Materials Engineer develops the nonproject specific (NPS) materials testing consulting contract that is then reviewed for approval by the Program Engineer and Region Transportation Director. The contract is distributed to interested consultants as a part of a request for proposals. Proposals are reviewed by Region Engineers and then the Consultants are selected. Resident Engineers write task orders to provide consultant materials testing for specific projects. The business office tracks expenditures and assists in the paperwork involved in administering the NPS contracts and the task orders written under each contract. The Region Materials Engineer reviews and retains copies of consultant evaluations and coordinates solving of problems with consultant testing.

3. MANAGEMENT AND EVALUATION OF CDOT & CONSULTANT MATERIALS TESTING

3.1 CP 16, Pre-Testing Meeting Agenda – CDOT & Consultant Materials Testing (CDOT Form #1322)

This form is used to guide discussion and document results of a pre-testing meeting. This meeting allows the key people involved in the testing to discuss and define each of the issues involved in consultant testing. Each item should be discussed and the results of that discussion written on the form. Pre-testing meetings have been a valuable tool to avoid problems by promoting communication on important issues before testing begins. 3.2 CP 16, Weekly Meeting Agenda – CDOT & Consultant Materials Testing (CDOT Form #1323)

This form is used to guide discussion and document results of a meeting held each week, if needed, to determine if the consultant testing is going smoothly. These meetings allow early identification and resolution of problems. Key issues addressed at the weekly meetings are distribution of test results, documentation of testing, proper test procedures, and how failing tests are handled. If the consultant testing is going well, then brief and informal meetings between the CDOT head tester and the consultant tester, or skipping some of these meetings, may be appropriate. If there are substantial problems then a formal meeting including the Project Engineer and the supervisor of the consultant materials tester may be needed. Use the form to document all meetings, however brief.

3.3 CP 16, Evaluation of Materials Testing – Consultant Materials Testing (CDOT Form #1324)

3.3.1 This form is used to evaluate the Consultant Project Tester and Consultant Management / Support (CMS) after consultant testing on the project is completed. This evaluation is normally conducted by the Project Engineer. The contractor, consultant, and head tester should be interviewed prior to completing this form. A final meeting with the consultant to discuss strengths and weaknesses is also recommended. A copy of the completed evaluation form is part of the Finals packet and must be sent to the Region Materials Engineer and the Documentation Unit of the Central Materials Laboratory. This central record of evaluations will support statewide review of consultant performance.

3.3.2 The Project Tester [A] section is an evaluation of the individual materials tester only.

3.3.3 The Consultant Management / Support (CMS) [B] section is an evaluation of the consultant company beyond the project tester. Description of the evaluation factors is discussed below. 3.3.3.1 Quality: Achieved desired outcomes with a minimum of avoidable errors and problems. The work was accurate and complete. The work was done in an efficient and effective manner.

3.3.3.2 Timeliness: Performs work within the time frames identified. Responds / replies to requests for information or assistance in a reasonable period of time.

3.3.3.3 Price / Budget: Effectively manages costs and adheres to the budget as specified in the contract / scope of work.

3.3.3.4 Business Relations / Customer Service: The degree to which the consultant is professional and respectful in its business approach and interactions with the agency.

3.3.3.5 Deliverables / Requirements: The degree to which the consultant is compliant in meeting the standards of contract requirements and deliverables (i.e. documentation).

4. CONSULTANT PERFORMANCE EVALUATION

4.1 The CDOT Consultant Performance Evaluation, CDOT Form #313, is a general evaluation of consultants performing any services for the Department.

Senate Bill 07 228 requires that all state contracts greater than \$100,000 that were signed, or changed, after July 1, 2009 must have Contractor evaluations and ratings performed. The final evaluation rating will be posted to the Contract Management Systems (CMS) public website at http://contractsweb.state.co.us. All CDOT guidance documents, which include instructions, procedures. forms. email language. memorandums and other information related to contractor performance evaluation, are posted on the Purchasing web page located at //internal/Purchasing/PurchasingDocuments.cfm.

These evaluations are separate from the CP 16, Evaluation of Materials Testing (CDOT Form #1324). All forms are required to be completed.

	Basias:	Bacidanaur				
COLORADO DEPARTMENT OF TRANSPORTATION	Region:	Residency:				
CP 16, PRETESTING MEETING	Contract ID:				Date	
AGENDA	Project No.:					
The purpose of this meeting is to clarify the expectations of CDOT for the consultant materials tester and to review some of the common	· ·					
issues that arise during typical projects. This form shall be used for	Proj. location:					
consultants and may be used when CDOT is performing the testing.						
Attendance: It is recommended that the following people be i			1			
CDOT Project Engineer.	Consultant mate	riais tester's super	VISOF.			
CDOT head tester:	Contractor qualit	y control tester:				
Region Laboratory representative (If available):	Contractor repre	sentative(s):				
Consultant materials tester:	Supplier represe	ntative(s):				
It is recommended this meeting occur one week prior to the need for test resolved, then there will be time to address them.	ing. If some of the	issues brought up	at the mee	eting are	not initial	у
1) Test result distribution:						
Payment to the contractor is dependent on test results of materials. There production. Computer printout of the Moving Quality Level (MQLs) needs			distributed	before t	he next d	ay of
Have all forms for reporting test results been provided to the consultant materials tester and contractor?	Test results will t	e distributed by:				
Test results will be distributed to:	FA	X:	CDOT For yes	m #626* no	yes Q	Ls** no
1)						
2)						
3)						
4)						
5)						
*When test results fail, a CDOT Form #626 (Field Laboratory Test Results **When QLs (Quality Levels) and pay factors are calculated, they shall be	*			t It.		
What mix designs have been submitted and approved?						
Who is authorized to sign the Form #626?	Who will calculat	e the QLs and pay	factors?			
wito to audititized to sign the Form #020?	who will calculat	e ure vatis and pay	Idouts:			
Who will distribute the QLs and pay factors?	How often will the	e QLs and pay fac	tors be dist	ributed?		
Which versions of software will be used to calculate pay factors?						
Does the consultant have this software Installed?	Does the contrac	tor have copies of	this softwa	re?	🗆 yes	🗆 no
Who from the contractor will be responsible for maintaining the MQLs?	I					

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Page 1 of 4

CDOT Form #1322 4/14

z) spe	cial reports							
						ed to be distribut	ted no later than the day after	the
test is c	ompleted. The follow	Ing protocol should be us Distributed		ution of these tests.			Distributed when	
Concre	ete cylinder break	ks:						
Aspha	It volumetrics:							
Rice:								
3) Proc	edural review							
		concern for testing mater	rials on CDOT pro	ojects. It is recomm	ended to r	review these du	ring this meeting.	
Forms:		t materials tester have	-	itant materiais test		Does the cons	uitant materials tester have th andom Sampling Schedule?	
Concret	e: Time constraints a	and procedures for makin	ig cylinders and b	eams (AASHTO T		ind 97)		-
Accepta	nce cylinders and/or	beams:		Field cured cy	linders:			
Sam	pling location within I	load:		Special require	ements:			_
	pling method (divert wheelbarrow preferre			\neg				
· ·		r Initial cure (first 24 hour	5):	Bridge Deck C	aring Mea	sures (thermoc	ouples etc.):	
Wee	kend pours (sampling	g and handling after 24 h	iours):	Maturity meter	r calibratio	ns for fast track	paving, completed by?	
Loca	tion of cure (after 24	hours):		-				
Tran	sportation (how and	when):						
Asphalt	-	Gradation	AC/Rice	2	Binder		Density	_
Sample	location:							
Sample	e taken by:							
Sample	witnessed by:							
Sample	e method:							
Sample	e split by:							
Sample	e delivered by:							
Test lo	cation:							
Tested	by:							
Review sample size: Aggregate: Bind			Binder:		HBP	t		
Special	sampling requiremen	its:						
Previous	editions are obcok	ete and may not be use	d _					_
LIAAIO08	editions are obsole	ne and may not be US6	u. P	age 2 of 4			CDOT Form #1322	4/14

4) Protocol for failing tests

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Apphal Content: Stability: Volumetricos: Binder: How will the QLs and pay factor be handled? Solls: Solls: Density: Density: Molsture: Soll type: Soll type: Soll type: Soll type: Soll trottle: For Cort head tester commitments The COT head tester will assist the consultant materials tester in tegrate down in davater will assist in barring the main consultant materials tester in tegrate down in davater and the mode of the project will also be provided by the consultant. Head tester: Inton: FAX: Soll trottle: FAX: Soll type: Soll trottle: Into trottle: FAX: It add tester: Inton townin advance - A reduced dokek testing program (at least 3	Asphalt:				
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8) Check testing program

The check testing program needs to be complete	ed before production begi	N6.				
Check testing started on:		Check testing completed on:				
110-1						
What was the average of the differences in each Gradation:	or the lests?	Rice:				
Gradauon.		ruce.				
Asphalt content:		Density:				
Did It correlate?		If not, then what is the next step?				
9) Independent Assurance Tests						
The Form #379 Indicates the number of Indepen	ident Accurance Tests (14	T) that are required. It is the response	the materials consultant to			
schedule these tests. It is necessary to schedule		4 hours in advance. To schedule the	test contact:			
Contact:		Phone:	Cell:			
Additionally, the tests should be scheduled (when there are problems with the test results, it is better			the end of a job or small quantity. If			
10) Qualified laboratory						
The consultant laboratory needs to be qualified i						
also be documented and given to the head teste Contact:	r. In order to get the labor	ratory inspected, so that it may beco Phone:	Cell:			
Contact.			uch.			
Date laboratory was qualified:		By:				
AASHTO accredited laboratories will be consider	ed qualified.					
11) Certified personnel						
Do the testers have the appropriate certifications		Lab Tech I, Lab Tech II or Field Tec	th I), asphait testing (LabCAT Level A,			
Level B or Level C), and solls (WAQTC, Embani Tester:	tment and Base)?	Certifications:				
Tester:		Certifications:				
12) Resolution of testing issues						
Issues may develop on the project between the						
that the issues be dealt with appropriately. The or consultant tester should not try to resolve issues						
effort should be made to resolve the issue at the						
13) Materials consultant supervisor						
The materials consultant tester project supervisor	r Is:	supervisors phone number:	Cell or Mobile:			
14) Weekly meetings						
The purpose of weekly meetings is to ensure that						
meeting can be a regularly scheduled meeting o Attendance: CDOT representative, consul		epending on the progress on the pro Where:	yect and the consultant's expertise.			
and contractor representative.	tain totel,					
Day:		Time:				
Who will attend? Name	Company		Phone			
1)						
2)						
3)						
4)						
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Page 4 of

CDOT Form \$1322 4/14

		Region: Residency:				
COLORADO DEPARTMENT OF TRA						
CP 16, WEEKLY MEETING	G AGENDA	Contract ID:			Date	
The purpose of weekly meetings is to ensure that an adequate job is						
being performed. If there are any issues, they need to be addressed.		Project No.:				
This shall be used for Consultants and may be u performing the testing.	sed when CDOT IS					
percenting one booming.		Proj. location:				
Attendance:						
Name	Company			Phone		
						_
1)						
l						_
2)						
2)						_
3)						
4)						
<u> </u>						
5)						
1) Test result distribution						
is everyone receiving their test results?						_
to everyone receiving alen test results :						
Are there any Issues?						
· ·						
2) Special reports						
Are test results for tests that take over 1 day bein	g distributed timely?					
	-					
3) Paperwork and documentation (Is the	e paperwork and do	cumentation u	up to date for:)			
Acceptance testing:						
IAIS:						
COCS and CTRS (Obtained for the files):						
4) Procedural review						
Are there any questions about the procedures be	ing used?					
1						
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5	Protocol	for	failing	tests
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Have there been any failing tests?

If so, what actions have been taken?

6) Head tester commitments

Has the head tester provided the necessary assistance?

Has the consultant requested assistance in areas not required?

7) Protocol for switching consultant materials testers

Has the consultant materials tester been switched?

If so, how was the switch handled?

8) Equipment changes

Has the same equipment been used throughout the project?

If equipment was changed, was it properly correlated or calibrated?

9) Check testing

is the check testing program complete?

is the check testing program up to date?

10) Independent Assurance Tests

Have the Independent Assurance tests been scheduled?

11) Miscellaneous

Are other pre-testing meeting checklist items complete?

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CDOT Form #1323 4/14

COLORADO DEPARTMENT OF TRANSPORTATION	Region:	Residency:	
CP 16, EVALUATION OF	Contract ID:	1	Date
MATERIALS TESTING	Project No.:		
The contractor, consultant and head tester should be interviewed prior	Project No		
to completing this form. There should be a final meeting with the consultant to review strengths and weaknesses.	Proj. Location:		
	I		

Name of Consultant Company:

Name of Consultant Tester:

Quality of Work/Total Rating:

PROJECT TESTER (A)

Eva	Evaluation Factors: Ratings: (5) very good, (4) good, (3) average, (2) below average, (1) poor					
1.	Knowledge of test procedures					
2.	Following test procedures					
З.	Knowledge of project specifications					
4.	Following project specifications					
5.	Test result distribution					
6.	Following protocol for failing tests					
7.	Following instructions / directions of CDOT manage	ment staff				
8.	Paperwork / documentation (during construction)					
9.	Final paperwork / documentation (after construction)				
10.	Time management					
11.	Scheduling I.A. testing					
12.	Attendance at weekly / required meetings					
13.	Housekeeping / field lab organization					
14.	Test equipment maintenance					
		Subtotal:	0			
		Average:	0			

CONSULTANT MANAGEMENT SUPPORT (B)

Evaluation Factors: Ratings: (5) above standard, (3) standard, (1) below			/ standard
	Note: Description of the factors can be found in CP	16, Subsection 3.3.3.	
1.	Quality		
2.	Timeliness		
З.	Price / Budget		
4.	Business Relations / Customer Service		
5.	Deliverables / Requirements		
		Subtotal:	0
		Average:	0

CUMULATIVE RATING

Weighted	average	total	score	(sections	A	and	В):	0
**orgined	avorago	corca	00010	10000110110		una		1.	

Comments on referenced evaluation factors:	
Rater: (Project Engineer)	Date:
Reviewer: (Region Materials Engineer)	Date:

Copy distribution: Project Engineer (Original), Consultant, Region Materials Engineer, Central Laboratory (Documentation Unit)

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CDOT Form #1324 4/14

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