



Florida Department of Transportation

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This Memo Has Expired

MATERIALS BULLETIN NO. 10-07
DCE MEMORANDUM NO. 19-07

**TO: DISTRICT MATERIALS RESEARCH ENGINEERS
DISTRICT CONSTRUCTION ENGINEERS**

**FROM: Thomas O. Malerk, P.E., Director, Office of Materials
Brian A. Blanchard, P.E., Director, Office of Construction**

COPIES: Richard Kessler, Michael Bergin, Rafiq Darji

**SUBJECT: STATEWIDE IMPLEMENTATION OF CONCRETE SAMPLE / LOT NUMBERING
SYSTEM AND REPORT**

The State Materials Office has developed a statewide concrete sample and lot numbering system to be used on new projects effective immediately. The use of the system and the report will provide Construction and Materials personnel with the ability to track the status of concrete sampling and testing and assist in identifying Materials Certification issues. The report, entitled Sample No. – Lot No. Report is embedded in the Laboratory Information Management System (LIMS) and can be used on any project, whether or not the new numbering system has been applied. The report will be most helpful on projects that utilize the numbering system, but can still provide valuable tracking information on projects where another system has been used.

Instructions for the numbering system and an example report are attached. These documents are also available on the State Materials Office web site. Do not apply the numbering system to ongoing projects where another numbering system has been applied. Construction personnel will need to inform Contractor Quality Control personnel about the numbering system at the preconstruction or concrete pre-operations meeting on new projects.

If you have any questions regarding the numbering system or the report, please contact Donald Bagwell in the State Materials Office at (352) 955-6645 or Susan Blazo in the State Materials Office at (352) 955-6669.

TOM/BAB/rk

Concrete Sample / Lot Number Instructions

I Sample Number Instructions

A. Follow format and numbering sequences below.

B. QC samples

1. Start with sample number "0001" and Lot number "1".
2. Continue with sequential sample and lot numbers as long as the same mix design is used.
3. Restart sample number and lot number sequence when mix design changes. If you reuse a mix design number previously used on the project, pick up the sample number where you left off so that there are no sample numbers repeated for the same mix design.
4. Show the quantity represented as the amount of cubic yards the QC sample represents, for example, 50 CY.

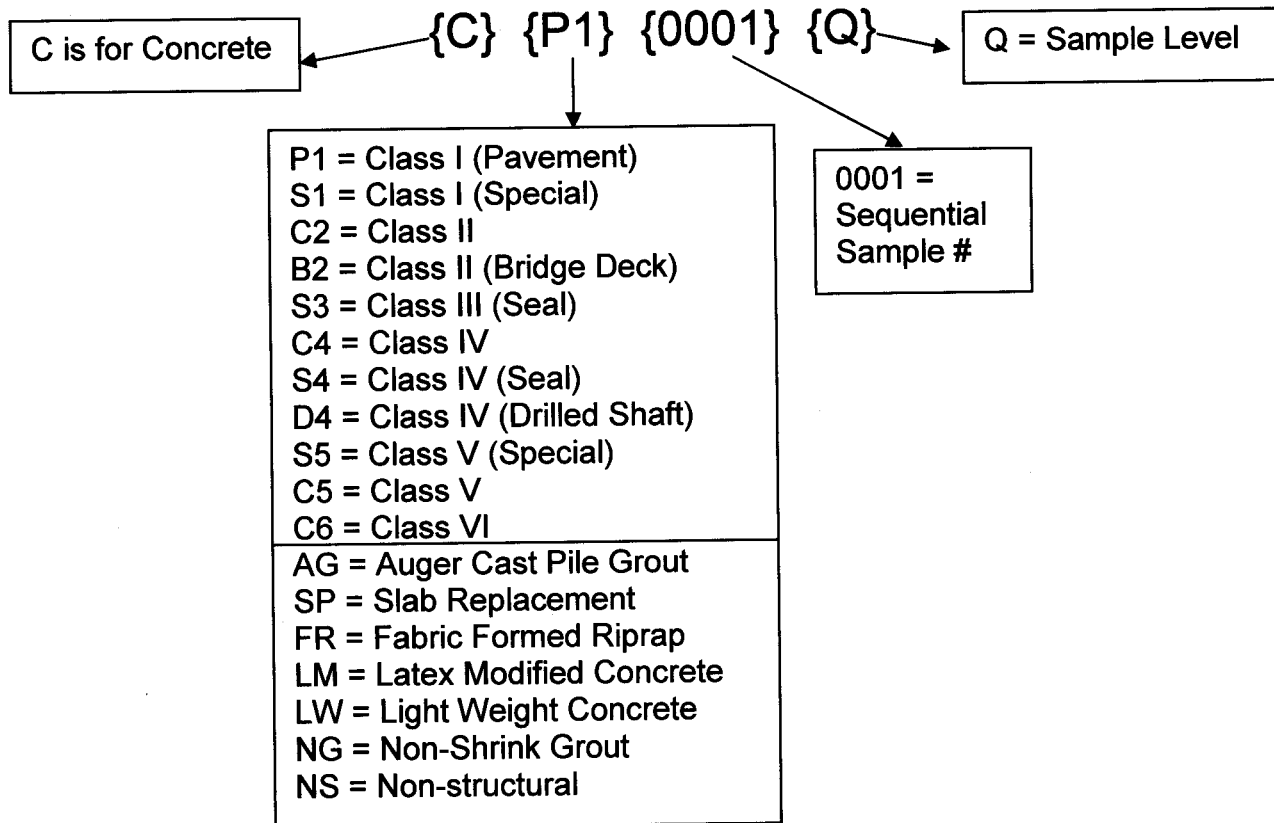
C. Verification samples

1. Match the Verification sample number to the corresponding QC sample number. For example if the random number for obtaining the Verification sample is in lot 3 and the QC sample number is CC30003Q, the Verification sample number would be CC30003V.
2. Identify the Lot number as all the QC lots the Verification sample corresponds to. For example, if the Verification sample corresponds to QC lots 9, 10, 11, and 12, the Verification lot number would be "9-12".
3. Show the quantity represented as the amount of cubic yards the Verification sample represents. For example, if it is four QC lots of 50 CY each, use "200 CY" as the quantity represented by the Verification sample. Not all V samples represent 200 CY. By adding the total cubic yards the QC lots represent, the PA will know how much material is represented for materials acceptance related issues.

D. Independent Verification Samples

1. Match the Independent Verification sample number to the corresponding QC sample number. For example, if you take the Independent Verification sample in lot 2 and the QC sample is CS30002Q, the Independent Verification sample would be CS30002IV.
2. Identify the Lot number as the QC lot the Independent Verification sample corresponds to. For example, if the Independent Verification sample corresponds to QC lot 5, the lot number for the Independent Verification sample would be "5".
3. Show the quantity represented as the amount of cubic yards the QC sample represents, for example, 50 CY.

II. Sample Number Format = CP10001Q



III. Sample Numbering Examples

- A. CC60004Q = Class VI, fourth QC sample
- B. CB2010V = Class II (Bridge Deck), Verification sample corresponding to 10th QC sample CB2010Q
- C. PC20002 = Class II Precast, second sample
- D. CAG0001 = Auger Cast Pile Grout, first sample
- E. CFR0002 = Fabric Formed Riprap, 2nd sample

IV. Sample Number Sequences – Major Concrete Classes

CLASS OR TYPE OF CONCRETE	NUMBERING SEQUENCE
CLASS I (PAVEMENT)	CP10001Q THRU CP19999Q
CLASS I (SPECIAL)	CS10001Q THRU CS19999Q
CLASS II	CC20001Q THRU CC29999Q
CLASS II (BRIDGE DECK)	CB20001Q THRU CB29999Q
CLASS III	CC30001Q THRU CC39999Q
CLASS III (SEAL)	CS30001Q THRU CS39999Q
CLASS IV	CC40001Q THRU CC49999Q
CLASS IV (DRILLED SHAFT)	CD40001Q THRU CD49999Q
CLASS V (SPECIAL)	CS50001Q THRU CS59999Q
CLASS V	CC50001Q THRU CC59999Q
CLASS VI	CC60001Q THRU CC69999Q

NOTE: Samples from Precast/Prestressed – Class of Concrete may begin with the alpha character “P” or “B”.

V. Sample Number Sequencing – Miscellaneous Concrete Items

CLASS OR TYPE OF CONCRETE	NUMBERING SEQUENCE
AUGER CAST PILE GROUT	CAG0001 THRU CAG9999
CONCRETE SLAB REPLACEMENT	CSP0001 THRU CSP9999
FABRIC FORMED RIPRAP	CFR0001 THRU CFR9999
LATEX MODIFIED PC CONCRETE	CLM0001 THRU CLM9999
LIGHT WEIGHT CONCRETE	CLW0001 THRU CLW9999
NON-SHRINK GROUT	CNG0001 THRU CNG9999
NON-STRUCTURAL	CNS0001 THRU CNS9999

VI. Sample No. – Lot No. Report

- A. Run Sample Number Lot Number Report to track samples and material status
- B. Recommend running the report prior to each placement or as deemed appropriate
- C. Report will show if:
 1. QC Samples are verified/not verified by Design Mix Number
 2. Samples are not tested
 3. Samples are not entered in LIMS

Sample Number - Lot Number Report

Lot Number	Sample No	Sample Level	Plant Number	Sample ID	Date Sampled	Date Tested	Verified?	Quantity Represented
Design Mix No. 04-0900			Class: <u>Class IV</u>					
Project: 10000010301								
160F								
2	CC40002Q	Q	01-002	0700051188	8/2/07	8/2/07	Yes	50CY
4	CC40004Q	Q	01-002	0700051190	8/4/07	8/4/07	Yes	50CY
160L								
1	CC40001Q	Q	01-002	0700051192	8/1/07	8/29/07	Yes	50CY
3	CC40003Q	Q	01-002	0700051194	8/3/07	8/31/07	Yes	50CY
1-4	CC40004V	V	01-002	0700051196	8/4/07	9/1/07	Yes	200CY
Design Mix No. 07-0544			Class: <u>Class II DECK</u>					
Project: 10000010301								
160F								
2	CB20002Q	Q	01-002	0700051198	8/14/07	8/14/07	Yes	50CY
4	CB20004Q	Q	01-002	0700051200	8/16/07	8/16/07	Yes	18CY
160L								
1	CB20001Q	Q	01-002	0700051202	8/13/07	9/10/07	Yes	50CY
3	CB20003Q	Q	01-002	0700051204	8/15/07	9/12/07	Yes	50CY
1-4	CB20004V	V	01-002	0700051206	8/16/07	9/13/07	Yes	168CY
Design Mix No. 07-0834			Class: <u>Class IV</u>					
Project: 10000010301								
160F								
2	CC40002Q	Q	01-002	0700051208	8/23/07	8/23/07	Yes	25CY
3	CC40003Q	Q	01-002	0700051209	8/24/07	8/24/07	Yes	25CY
160L								
2	CC40002Q	Q	01-002	0700051212	8/23/07	9/20/07		25CY
3	CC40003Q	Q	01-002	0700051213	8/24/07	9/21/07		25CY

Number of Rows on Report: 28

sample_no_lot_noV5.rpt b610 3/20/07

LEGEND: QC=Quality Control

Sample Levels: Q=Quality Control, V=Verification, IV=Independent Verification