

Florida Department of TRANSPORTATION



MAC Quick Sheet April 8, 2024

ERS Sample Numbering System

# **Proctor Samples**

Proctor samples become parent samples to ERS field density samples. In order to ensure that the Proctor sample numbers are available for ERS field density samples and they are identifiable, the following FDOT Sample Numbering system should be used on Proctor samples.

Spec. ID		Example	
120(125)	Embankment/P	E001Q	
145	Geosynthetic R	G 0 0 1 Q	
160	Stabilizing	Local Stabilizing Material (440A)	C 0 0 1 Q
		Stabilized Subgrade * Note: Replace "S" with "L" for independent VT LBR samples	S001Q/ L001V
		Granular Subbase In-Lieu of Stabilized Subgrade (Pit Proctor)	BPS001Q
		Granular Subbase In-Lieu of Stabilized Subgrade (Non-Pit Proctor)	B S 0 0 1 Q
200/285	Optional Base Group	Base (Non-Pit Proctor)	B001Q
		Base (Pit Proctor)	BP001Q
		Recycled Aggregate Base (RAP)	R 0 0 1 Q
548	Retaining Wall Systems	Retaining Wall Backfill	M 0 0 1 Q

Notes:

- 1. FDOT Sample Number for Proctor samples must start with an alpha character that may be up to four characters. Extra characters after the first character may be added to depict extra information. For example, "P" for Pit-Proctor, "S" for subbase, etc. For shoulder (nonmainline) only samples, include an S for the last alpha character (BPSS0001Q). Coordinate with District Materials and Research Office (DMRO) for additional sample numbering codes.
- 2. The next three characters must be a sequential number that is between 001 and 999.
- 3. FDOT Sample # must end with a "Q" for the Contractor, "V" for Verification, "R" for Resolution, or "IV" for Independent Verification.

## ESB Plots X00X-T00X(Q)

X00X = Area Number  $T00X = Test Number^*$  (Q) = QC test - OptionalThe sample levels are displayed on the comparison package screen. If it makes it easier for the PA to create comparison packages, it is recommended to use the Sample Level alpha character.

ken	FDOT Sample Number	LOT #	Mix Design	Sample Level	FDOT Sample Number	LOT#	Mix Design	Sample Level
	E001-T005Q			QC	E001-T005			QC
	E001-T006Q			QC	E001-T006			QC
	E001-T007Q			QC	E001-T007			QC
	E001-T008Q			QC	E001-T008			QC }
	E001-T008V			VT	E001-T008			VT J

VT Sample should match the QC Sample that it pairs with. For example, if VT pairs with QC E002-T003(Q), VT would be E002-T003(V), even though it is the first VT test performed.

## Initial Production (if performed)

IPL001(Q), IPL002(Q), IPL003(Q), IPL004(Q), etc.\* \*Because there is only one IPL per operation, no area is needed, just test number

#### Embankment

E001-T001(Q), E001-T002(Q), E001-T003(Q), E001-T004(Q), etc. E002-T001(Q), E002-T002(Q), E002-T003(Q), E002-T004(Q), etc. E003-T001(Q), E003-T002(Q), E003-T003(Q), E003-T004(Q), etc.

#### Subgrade

S001-T001(Q), S001-T002(Q), S001-T003(Q), S001-T004(Q), etc.

#### Base

B001-T001(Q), B001-T002(Q), B001-T003(Q), B001-T004(Q), etc.

#### Thicklift Test Strip

#### Embankment

ETS001-T001(Q), ETS001-T002(Q), ETS001-T003(Q), ETS001-T004(Q), etc. ETS002-T001(Q), ETS002-T002(Q), ETS002-T003(Q), ETS002-T004(Q), etc. ETS003-T001(Q), ETS003-T002(Q), ETS003-T003(Q), ETS003-T004(Q), etc.

#### Base

BTS001-T001(Q), BTS001-T002(Q), BTS001-T003(Q), BTS001-T004(Q), etc.

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**NOTE**: Area = area tested, not displayed plot. For example, E001 = first embankment lot tested, not first embankment lot plotted.

# Reduced Frequency X00X-T00X(Q) Or X00X-T00XRF

X00X = Area Number  $T00X = Test Number^*$  (Q) = QC test - OptionalRF = Reduced Frequency Lift with no QC test - *Required* 

# For example: Lifts 2 and 4 have no QC test

E001-T001(Q), E001-T002RF, E001-T003(Q), E001-T004RF, etc.

The RF samples are designated with a Yes on the "Is this LOT a Reduced Frequency lift?" question and have the same proctor sample as the VT test.

VT Sample should match the QC Sample that it pairs with even if it is a Reduced Frequency Lift. For example, if VT pairs with QC E002-T002RF, VT would also be E002-T002(V).



#### Drainage PH00X-T00X(Q)

PH00X = Phase NumberT00X = Test Number (Q) = QC test - Optional

VT Sample should match the QC Sample that it pairs with. For example, if VT pairs with QC E002-T002(Q), VT would be E002-T002(V), even though it is the first VT test performed.

## Initial Production (if performed)

IPL001(Q), IPL002(Q), IPL003(Q), IPL004(Q), etc.\* \*Because there is only one IPL per operation, no area is needed, just test number

PH001-T001(Q), PH001-T002(Q), PH001-T003(Q), PH001-T004(Q), etc. PH002-T001(Q), PH002-T002(Q), PH002-T003(Q), PH002-T004(Q), etc. PH003-T001(Q), PH003-T002(Q), PH003-T003(Q), PH003-T004(Q), etc.



### MSE Wall X00X-T00XQ

X00X = Area NumberT00X = Test Number (Q) = QC test - Optional

VT Sample should match the QC Sample that it pairs with. For example, if VT pairs with QC E002-T002(Q), VT would be E002-T002(V), even though it is the first VT test performed. Ensure the samples are designated with the correct Category / Type from MAC Spec 548. Samples must be within the same category / type to be included together in a comparison package.

Category
ERS Density / 3-ft from the Wall Zone
ERS Density / Strap Zone
ERS Density / Strap and Embankment Zone
ERS Density / Embankment Zone

## Initial Production (if performed)

IPL001(Q), IPL002(Q), IPL003(Q), IPL004(Q), etc.\* \*Because there is only one IPL per operation, no area is needed, just test number

#### 3' Wall Zone

PH001A-T001(Q), PH001A-T002(Q), PH001A-T003(Q), PH001A-T004(Q), etc.\* PH002A-T001(Q), PH002A-T002(Q), PH002A-T003(Q), PH002A-T004(Q), etc.

## Strap/Embankment Zone

PH001B-T001(Q), PH001B-T002(Q), PH001B-T003(Q), PH001B-T004(Q), etc.\* PH002B-T001(Q), PH002B-T002(Q), PH002B-T003(Q), PH002B-T004(Q), etc.

## Embankment Zone Only

PH001C-T001(Q), PH001C-T002(Q), PH001C-T003(Q), PH001C-T004(Q), etc.\* PH002C-T001(Q), PH002C-T002(Q), PH002C-T003(Q), PH002C-T004(Q), etc.

## Thicklift Test Strip

MTS001-T001(Q), MTS001-T002(Q), MTS001-T003(Q), MTS001-T004(Q), etc.\* MTS002-T001(Q), MTS002-T002(Q), MTS002-T003(Q), MTS002-T004(Q), etc.



# Pad Construction One Lift XX00x(Q)

Some pads only have one lift. In these cases, only the test number portion of the ERS sample is needed.

XX = Pad typeSS = Shoulder Subgrade SB = Shoulder Base SW = SidewalkSU = Shared Use Path CD = Concrete Driveway CP = Curb Pad If more than one curb pad, CP1, CP2, etc. Other = OTx = Test number (Q) = QC test - Optional SS001(Q), SS002(Q), SS003(Q), SS004(Q), etc.\* SB001(Q), SB002(Q), SB003(Q), SW004(Q), etc. SW001(Q), SW002(Q), SW003(Q), SW004(Q), etc. SU001(Q), SU002(Q), SU003(Q), SU004(Q), etc. CD001(Q), CD002(Q), CD003(Q), CD004(Q), etc. CP001(Q), CP002(Q), CP003(Q), CP004(Q), etc. OT001(Q), OT002(Q), OT003(Q), OT004(Q), etc.\* \*only if pad is one lift

VT Sample should match the QC Sample that it pairs with. For example, if VT pairs with SU002(Q), VT would be SU002(V), even though it is the first VT test performed.

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# Pad Construction Multiple Lift XX00X-T00X(Q)

Some pads have more than one lift. In these cases, the area number and test number portion of the ERS sample is needed.

XX00X = Pad Type and Area Number T00X = Test Number(Q) = QC test - Optional

SS001-T001(Q), SS001-T002(Q), SS001-T003(Q), SS001-T004(Q), SS002-T001(Q), SS002-T002(Q), SS002-T003(Q), SS002-T004(Q), SS003-T001(Q), SS003-T002(Q), SS003-T003(Q), SS003-T004(Q), SS004-T004(Q), SS004-T002(Q), SS004-T003(Q), SS004-T004(Q),

VT Sample should match the QC Sample that it pairs with. For example, if VT pairs with SS002-T003(Q), VT would be SS002-T003(V), even though it is the first VT test performed.



Mixing Depth MD00X

**X = Test number** MD001, MD002, MD003, MD004

# Base Thickness Depth BT00X

*X* **= Test number** BT001, BT002, BT003, BT004

## Additional Form Information

MAC Spec Category / Type

Material ID	MAC Possible Categories/Types				
120	ERS Density	Embankment			
145	ERS Density Reinforcement Backfill				
		Stabilized Subgrade			
160	ERS Density	LRI (OBG)			
		LRI (GAB)			
	ERS Stabilizing Mixing Depth				
200	ERS Density	OBG			
	Ence Density	GAB			
	ERS Base Thickness				
548		3-ft from the Wall Zone			
	ERS Density	Strap Zone			
		Strap and Embankment Zone			
		Embankment Zone			

For Material Placement on all samples and any additional conditions on samples with other conditions, the following number(s) should be used in field 27. If multiple conditions apply, enter all that apply. For example, Normal Embankment with a project specific target compaction would be 1, 9. The actual target would be entered in the form field. If the override target compaction condition is indicated by a 9, then enter the value in the notes (form field 28).

MAC Conditions				
1	0	Normal Embankment		
2	Material Placed condition for 120	Pipe run only & within cover zone		
3		Sidewalk/Driveway		
4		Noise or Perimeter Wall		
5		Spread Footer		
6	0	Concrete Barrier Wall		
7	Thicklift Test Strip			
8	Thicklift Test Wall			
9	Override Target Compaction			