Revised 02/03/23

Select **Contract** Click **MATERIALS** on toolbar Select **Date** from calendar Choose **SAMPLES** or **REQUIREMENTS**

•	SAMPLES		<u>REQUIREMENTS</u>
	Click + Add Material		Click Lookup work item
	Scroll to find Material Code	OR	Scroll to find Item Code
	Clicking on the Material Code begins the		Clicking on the Item Code displays required
	Sample		tests
			for the item selected
			Clicking Create Sample begins the Sample

Concrete Field Test

SAMPLE DETAILS

Select Sampled By Record Represented Quantity Record Cylinder Numbers Note: Required Average Minimum Design Strength in parentheses.

Example: 12A, 12A (3500)

VENDORS

Select Producer/Supplier Select Design Type Select Mix Id

LOCATION

Select Geographic Area (Choose Region <u>AND</u> County)

Record Sampled From location

Record Station, Offset, Offset Distance, Distance From Grade and From Grade Unit, information as applicable

ITEMS

Select Item(s) associated with the test(s)

TESTS

Choose **DEST – TDOT Field** for Destination Lab Select test(s)

VENDORS LOCATION ITEMS TESTS REMARKS AT

Initial Curing Equipment - Curing Box Min Temp Recorded - 65 Max Temp Recorded - 80

REMARKS (Required) and ATTACHMENTS (Optional)

Add REMARKS:

- Initial Curing Equipment
- Min Temp Recorded
- Max Temp Recorded

ATTACHMENTS if applicable, add additional information regarding the Sample

Note: Required Average Minimum Design Strength in parentheses.

LIMS

Select Send to LIMS SAVE

Concrete Cylinder Castings

Return to **SAMPLE DETAILS**

Click Copy Sample icon

Select **Yes** to Copy Lab Control Number Record **Sample ID** onto Concrete Cylinder Test

Record Date Transported to Wet Curing

Edit Cylinder Numbers field (if necessary)

Example: 12A / 12 A (3500)



Report

Choose DEST – Headquarters/Receiving Dock

Select test(s)

TESTS

REMARKS (Required) and ATTACHMENTS (Optional)

Check REMARKS to be sure the information from the fresh properties sample copied:

- Initial Curing Equipment
- Min Temp Recorded
- Max Temp Recorded

VENDORS LOCATION ITEMS TESTS REMARKS AT Initial Curing Equipment - Curing Box Min Temp Recorded - 65

ATTACHMENTS if applicable, add additional information regarding the Sample

LIMS

Select Send to LIMS

SAVE

Max Temp Recorded - 80

After the next Sync, your sample will be available for Headquarters to receive and enter LIMS results Quick Reference Guides (QRGs) developed by Materials & Tests can be seen here: https://www.tn.gov/tdot/materials-and-tests/field-operations/site-manager-materials.html

Concrete Field and Cylinder Casting Samples - DWR App

FIELD - Operations Inspector Prepares and Delivers the Cylinders to the Regional M&T Lab

On the side of the cylinder mold **clearly** write the sample ID provided by SiteManager, the mix design strength, class of concrete, cylinder number, date made, and contract number for the cylinders. **Before any concrete is placed in the cylinder mold. (See Appendix for examples)**

- 1. Before cylinders are shipped from the Regional Lab to the HQ Lab, cylinder samples in SiteManager should be reviewed for accuracy.
- 2. Strip the molds from the cylinders.
- 3. Transfer/Verify information from the cylinder mold to the stripped cylinder. (See Appendix)
- 4. Deliver the cylinders to the regional M&T lab.

HQ Lab performs testing

If cylinders break above required strength, no notifications we be sent to Operations or Regional M&T Staff. There are several methods anyone who wants/needs to see the results can access the data

i. Open sample record in SiteManager, go to "Tests" tab. Select test T22. Then go to "Services" menu and select "Enter/View Test Results". Read only version of the test template w/ results will open in new window.

File Edit Services Win	dow Help							
🔟 📲 🗣 😤 🖻	🖬 🖸 🕇 🗏 🗒							
Pie Maintain Sample Information								
Basic Sample Data	Addtl Sample Data	Contract	Other	Tests				
Sample jj0283422B9085746								
Test Method	Sample Test Nbr		Test Description					
T22	T22 1 T22-CYL - Compressive Strn of Cylindrical Concrete Specimens							

Concrete Field and Cylinder Casting Samples - DWR App

Material Test Template Usage										
Sample ID : ii028342289085746	est Method : T22	Test Number: 1								
Material Code : 604.01.001A M	ix Type : PCC	Mix Id : 220450	_							
		,								
Effective Date: 10/01/12										
T22-CYL Compressive Strength of Onlindrical										
Out of Spec										
Print Concrete Specimens										
Equipment 61907015 - 1" BEARING BLOCK #1										
Procedure 4x8 Cylinder										
Cylinder numb	per 1	2		_						
		4.000	4 000							
Diameter (in	J J 4.000	J 4.000	J 4.000	_						
Cross-sectional Are	a (sq in) 12.56	12.56	12.56							
Calculate B	Maximum Load (It	of)		~						
<				>						

If the cylinders break below required strength, automatic notifications will be sent to the Operations unit & Materials & Tests office in charge of the contract.

Appendix

Example Cylinder Mark Up:









Be sure to transfer the contract number, cylinder number, and date to the smooth end of the cylinder.