



# TEX-115-E, PART 4

Measuring In-place Density and Moisture Content of Soils and Base Materials



## Why

To get the random testing location using the length and width of the area/land compacted to determine the in-place density and moisture content



## When

- Item 132
- Item 247
- Item 251
- Item 260
- Item 263
- Item 265
- Item 275
- Item 276
- Special Spec. 3088
- Special Spec. 3089
- Special Spec. 3095



## How

### Procedure

- Use the random density testing spreadsheet provided by the Materials and Tests Division to determine random locations for density and moisture testing from Part I.
- Determine the length and width of the testing area.
- Multiply the length of the area by the length random number
  - Add the length to the beginning station number.
- Multiply the width of the area by the width random number.
  - Measure the width offset from the right side of completed area.
  - Adjust the width offset by no more than necessary when it is within 2 ft. of each compacted edge.
- Measure the density and moisture content in accordance with Part 1.

TEXAS DEPARTMENT OF TRANSPORTATION  
RANDOM DENSITY TESTING  
Tex-115-E

SAMPLE ID		SAMPLED DATE	
TEST NUMBER		LETTING DATE	
SAMPLE STATUS		CONTROLLING CSJ	
COUNTY		SPEC YEAR	
SAMPLED BY		SPEC ITEM	
SAMPLE LOCATION		SPECIAL PROVISION	
MATERIAL CODE		GRADE	
MATERIAL NAME			
PRODUCER			
AREA ENGINEER		PROJECT MANAGER	
COURSE/LIFT		STATION	DIST FROM CL

*Note: Adjusted stations and width offsets are at least two feet away from compacted edges.*

Beginning Station		<input type="button" value="Clear All"/> <input type="button" value="Clear Random Numbers"/> <input type="button" value="Generate Random Test Locations"/> <input type="button" value="Print"/>
Ending Station		
Width		

Test Number	Random Numbers		Random Station	Random Width Offset	Adjusted Station	Adjusted Width Offset
	Length	Width				