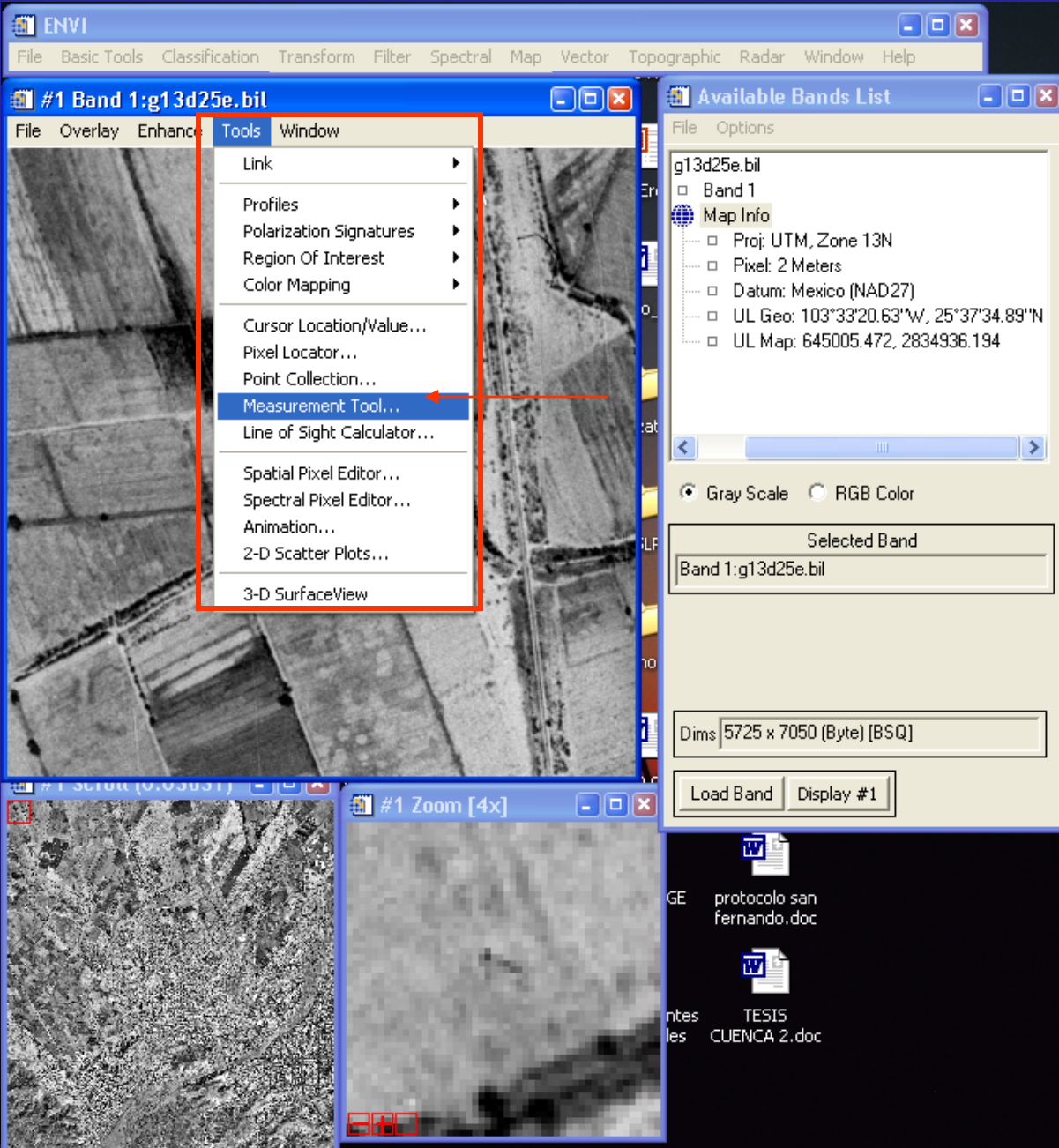


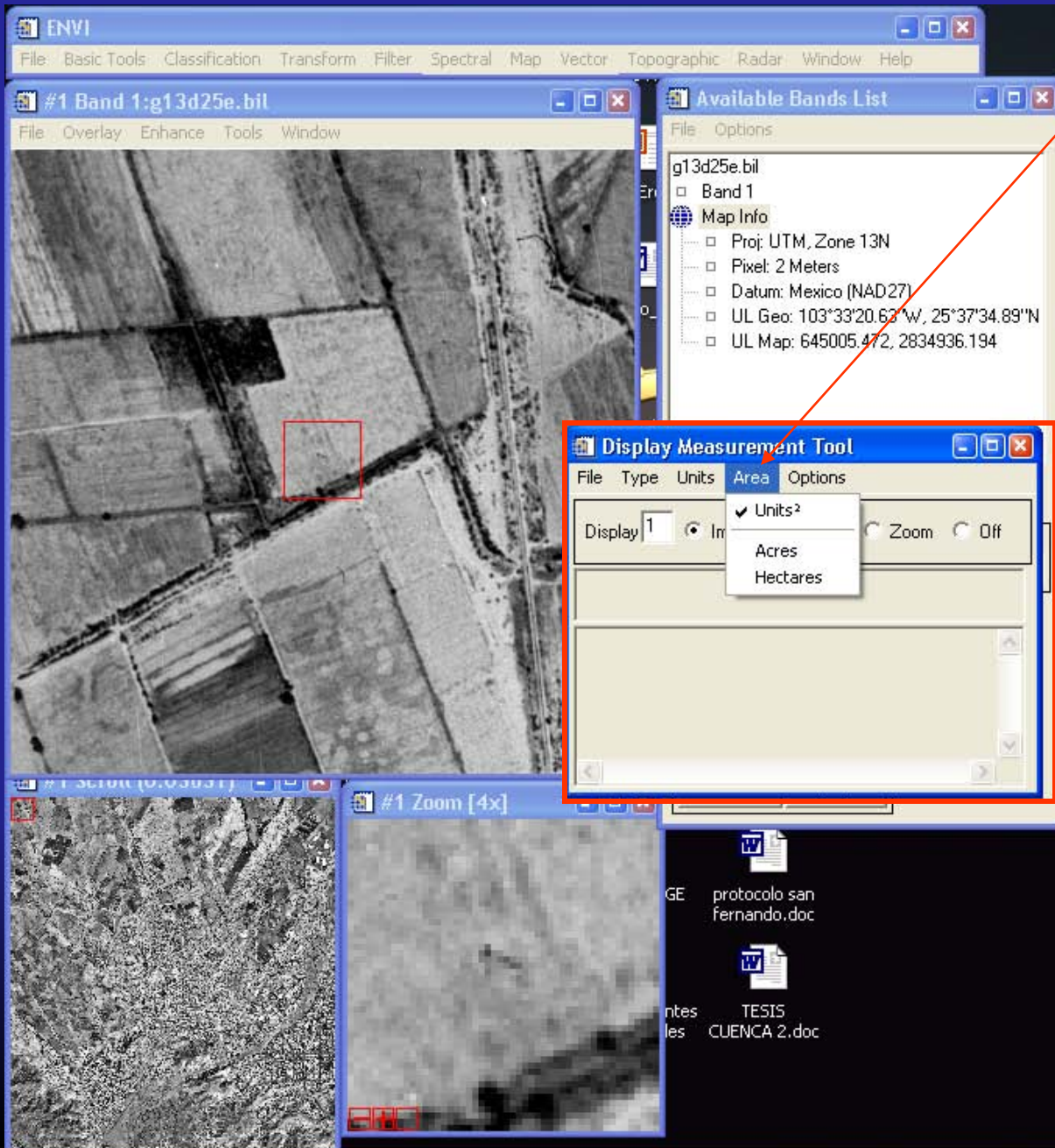
# Medición en ENVI



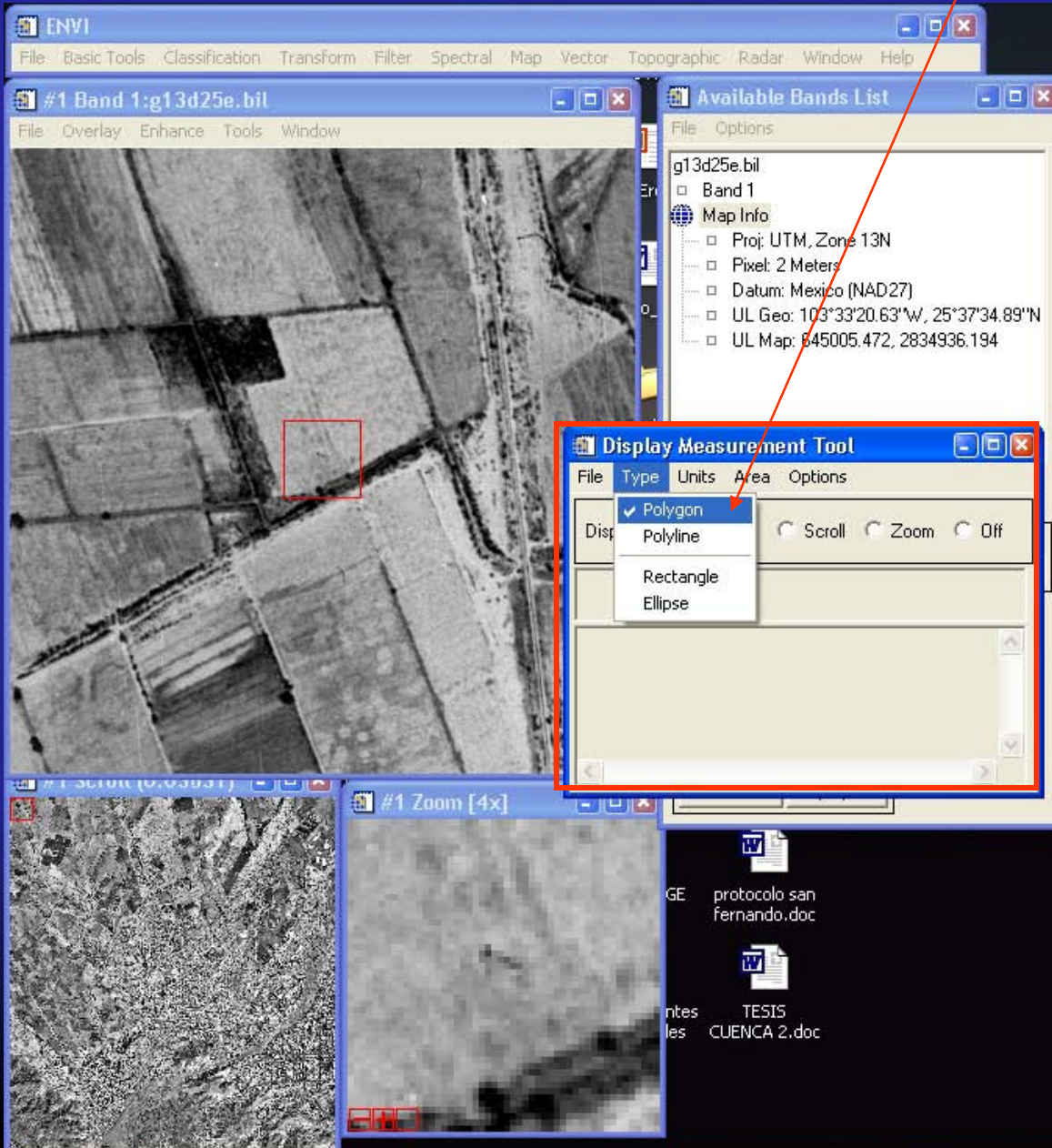
Medición de áreas. Se selecciona “Tools” y de ahí “Measurement Tool”:



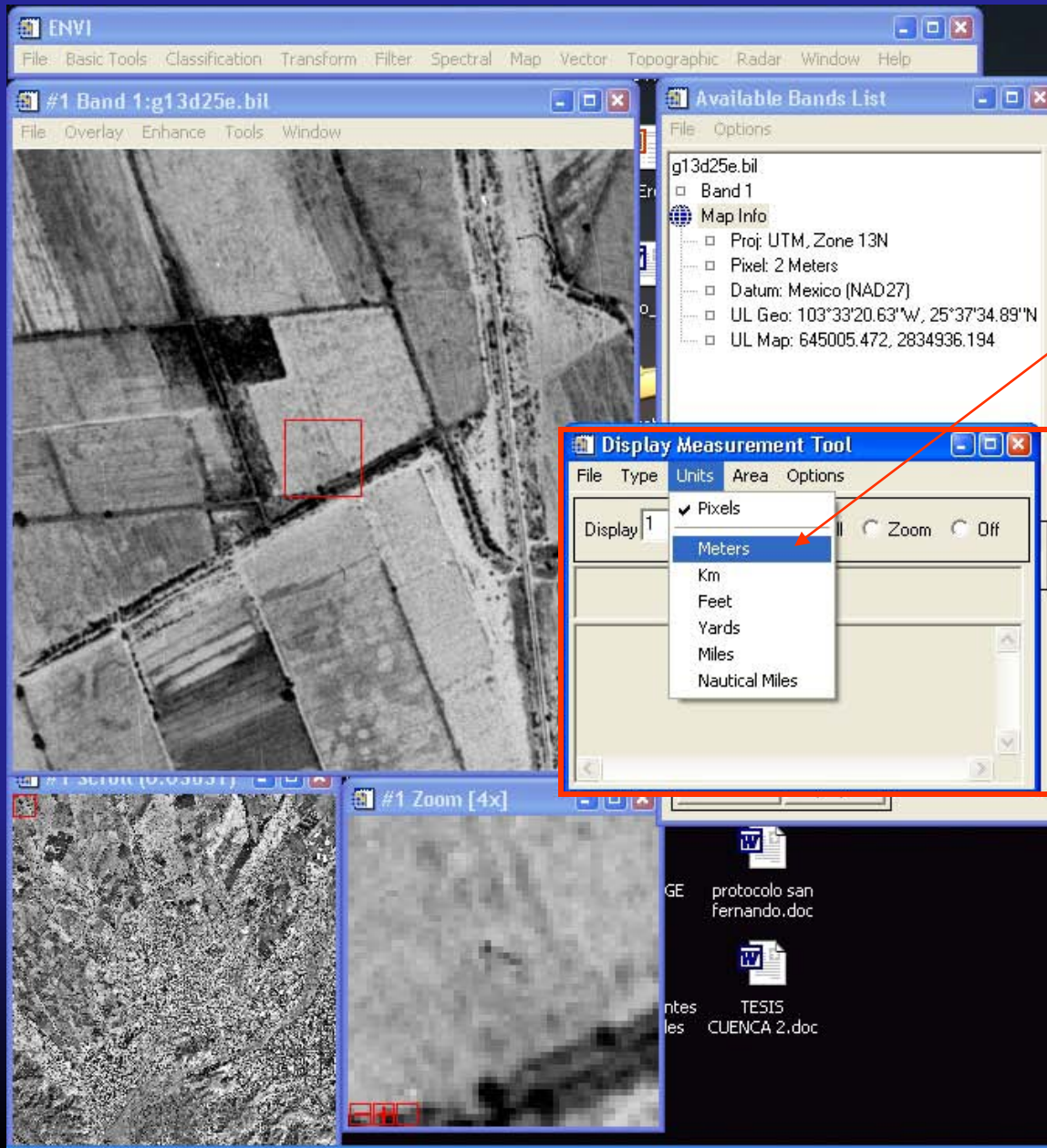
Aparece la siguiente ventana y se selecciona "Area":



Se selecciona "Type" y de ahí "Polygon":



En la misma ventana se selecciona “Units” y ahí mismo “Meters”:



Se ubica el objeto a medir (auditorio):

The screenshot displays the ENVI software interface. The main window shows a satellite image of a city with a red box highlighting a circular auditorium. The 'Available Bands List' window is open, showing the following metadata for 'g13d25e.bil':

- Band 1
- Map Info
  - Proj: UTM, Zone 13N
  - Pixel: 2 Meters
  - Datum: Mexico (NAD27)
  - UL Geo: 103°33'20.63"W, 25°37'34.89"N
  - UL Map: 645005.472, 2834936.194

The 'Display Measurement Tool' window is also open, showing the following options:

- File Type Units Area Options
- Display  1  Image  Scroll  Zoom  Off
- Band 1:g13d25e.bil
- Dims 5725 x 7050
- Load Band Display #1

The desktop background shows icons for 'OIMAGE', 'protocolo san fernando.doc', 'componentes principales', and 'TESIS CUENCA 2.doc'.

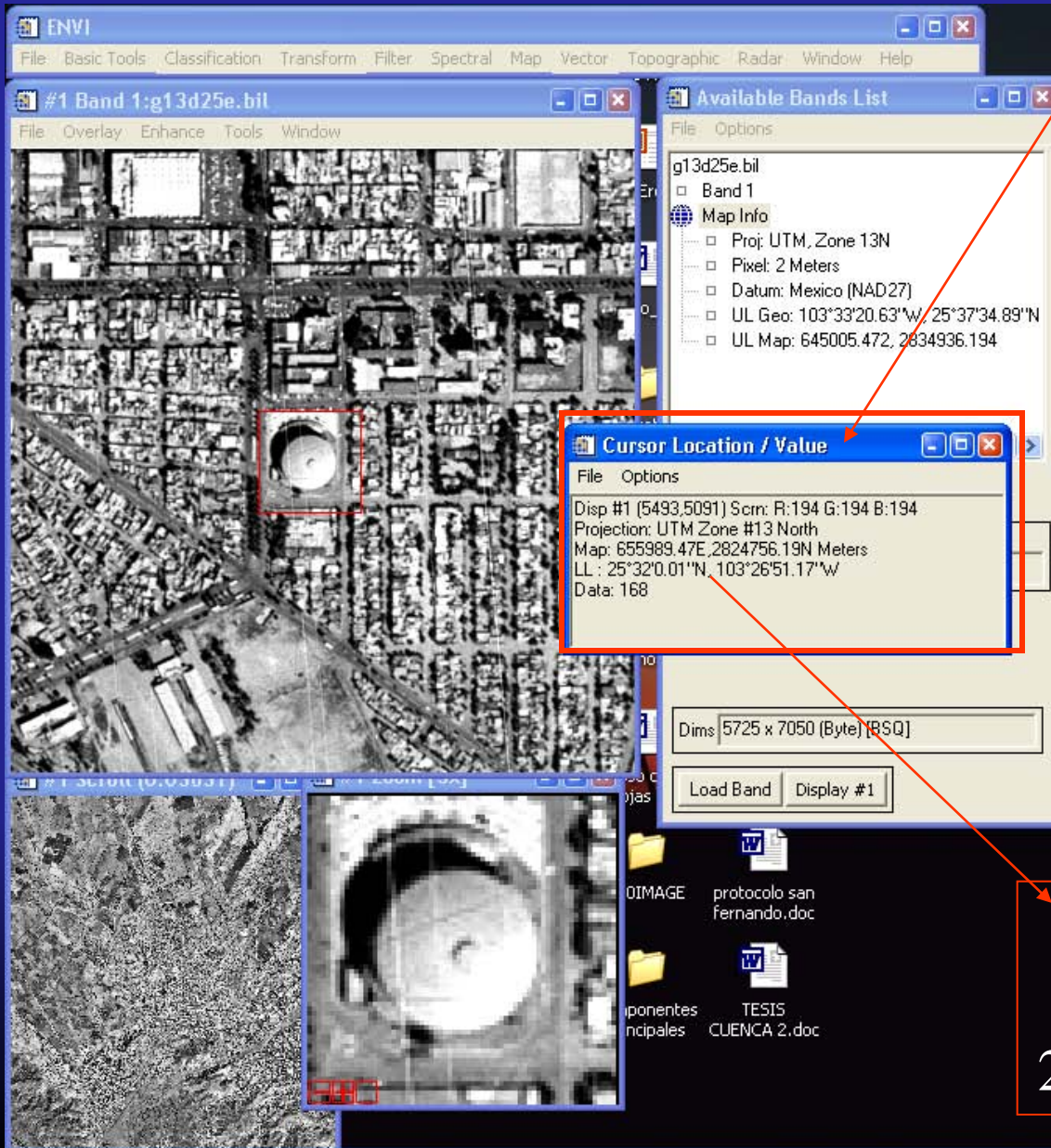
Se traza el polígono o figura y automáticamente aparece el área:

The screenshot displays the ENVI software interface with several windows open. The main window shows a grayscale satellite image of a city grid. A red square highlights a circular feature. The 'Available Bands List' window shows the file 'g13d25e.bil' with map information: Proj: UTM, Zone 13N; Pixel: 2 Meters; Datum: Mexico (NAD27); UL Geo: 103°33'20.63"W, 25°37'34.89"N; UL Map: 645005.472, 2834936.194. The 'Display Measurement Tool' window is open, showing the 'Area' tab with the following data:

Measurement	Value
Perimeter	224.5184 Meters
Total Area	3,840.000 Meters <sup>2</sup>
Segment #28	14.3135 Meters
Segment #29	12.7366 Meters
Segment #30	14.0632 Meters
Segment #31	10.7501 Meters
Segment #32	3.8870 Meters

The 'Display Measurement Tool' window also shows 'Dims: 5725 x 7050' and buttons for 'Load Band' and 'Display #1'. A zoomed-in view of the circular feature is shown in the bottom-left corner, with a red dashed polygon overlaid on it. A red box in the bottom-right corner contains the text 'Area: 3,840.00 m<sup>2</sup>'.

Para el cálculo de las coordenadas centrales del auditorio, se cierra la ventanilla anterior y simplemente se da click con el puntero y aparecen las coordenadas en la ventanilla:



Coordenadas:  
655989.47 E  
2'824756.19 N