SPM User Acceptance Test Script

# Purpose

To test each new upgrade to the Statewide Planning Map and ensure that base functionality is not compromised.

# Process

You will be sent a copy of the HTML for the SPM, which you can save and run off of your desktop. Once the code passes UAT, the application will be updated on our internal server (<http://crossroads/org/tpp/StatewideMapping/>). After testing again in the internal version, the application will be updated on the external server (<http://www.txdot.gov/apps/statewide_mapping/StatewidePlanningMap.html>).

# Section 1: General Application Test

This test section must be completed each time upgrades are made in order to ensure that all functionality works properly prior to launching. After the base functionality has been tested, the enhancements will be tested in the next section.

* Open the application
  + Expected Results:
    - Application opens without errors. Basemap shows in map pane and is zoomed to the extent of the state (more or less – dependent upon your screen resolution).
    - All tabs and table of contents load properly.
    - The zoom control buttons appear in the upper left corner of the map pane.
    - A scale bar, zoom level description, and latitude & longitude appear in the lower left corner.
* Pan and zoom around the map pane. Zoom in to the fullest extent (zoom level 15 – note: the zoom level is displayed in the lower left corner of the display)
  + Expected Results:
    - Map is responsive to panning and zooming
    - Basemap displays properly at each zoom level
* Click to open each of the **Base Maps** located near the top of the table of contents pane.
  + Expected Results:
    - Each basemap loads properly
    - Zoom and pan around each basemap
* Click to open the **Search** tab located at the top of the table of contents pane.
  + Expected Results:
    - Search options appear (City, Control Section, County, District, On System Highway, Search box)
  + Select the City radio button and enter a city name into the search box. Repeat for each of the search options.
    - Expected Results:
      * You see type-ahead results as you type in the search box
      * The map pane zooms to the selected feature
* Click the **Measure** tab. Select a unit of measure. Single click on the map, then double click at another location to measure the distance. Toggle between the units of measure. Click Clear.
  + Expected Results:
    - Each unit of measure is selectable
    - You are able to draw a line measuring a distance.
    - The unit of measure changes as you select each one.
    - The clear button clears the red measure line.
* Click the **Query** tab. Enter a query and click Run Query. Click the highlighted layer.
  + Expected Results:
    - The map will zoom to the selected route.
    - A pop-up window for Roadway Inventory will pop up after the highlighted route is selected. The pop up will contain attributes for the selected route.
* Click the **Sketch Tool** tab. Choose from the dropdown options. Click in the map pane to draw a route. Click Calculate Cost. Click Clear.
  + Expected Results:
    - The route you have drawn will show in the map pane in red.
    - The Project Length and Estimated Construction Cost details will appear below the Calculate Cost button.
    - The red line will disappear after you click the Clear button.
* Click the **Legend** tab. Go back to the Maps tab and select an overlay, then return to the Legend tab. Repeat for several overlays randomly.
  + Expected Results:
    - The Legend is updated for each overlay.
    - The Legend shows the title or description of the layer and the symbology below it.
* Click the **About** tab.
  + Expected Results:
    - A disclaimer appears with several paragraphs of text
* Select 5 overlays randomly (not just the first 5). Click an asset for each of the selected overlays.
  + Expected Results:
    - Some overlays have labels on the map.
    - A pop-up window appears.
    - The pop-up window contains data for the fields displayed.
    - The data displayed in the pop-up window is not cryptic coded values.

# Section 2: Enhancements Test

This section covers new enhancements made to the application, which must be fully tested prior to launching.

* **Top 100**
  + Click on the Top 100 overlay to turn it on
  + Select a segment in the map to open the pop up window
    - Are all fields populated?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
    - What is the year at the top of the pop up window?\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + Comment on any issues you found: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* **Top 100 Search**
  + Select Search
  + Select Top 100
  + Type a rank between 1 and 100
  + When you begin typing does it start populating a list after the first character entry?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + Select a rank from the list
  + When selecting a rank, does the map zoom to the segment?\_\_\_\_\_\_\_\_\_\_\_
  + Which road is listed as rank 1?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + Comment on any issues you found:

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* **Future Traffic & Truck Percent**
  + Click on the Future Traffic & Truck Percent overly to turn it on
  + Click on a segment in the map to open the pop up window
    - Are all fields populated?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
    - What are the two years listed in the AADT fields?\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + Comment on any issues you found: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* **AADT**
  + Click on the AADT overlay to turn it on
  + Select a point in the map to open the pop up window
    - What is the most recent year in the pop up window?\_\_\_\_\_\_\_\_\_\_\_\_
  + Comment on any issues you found: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* **Roadway Inventory File**
  + Click on Query
  + Fill Out Query Form
    - Route (ex. IH0035)
    - Attribute (ex. AADT)
    - Operation (ex. Greater Than)
    - Value (ex. 50000)
  + Select “Run Query”
  + Select a segment in the map to open the pop up window
  + Are all fields populated?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + Comment on any issues you found: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* **Pavement Conditions**
  + Click on the Pavement Conditions overlay to turn it on
  + Select a segment in the map to open the pop up window
  + Are all fields populated?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* **Version number added**
  + Go to the About tab
    - What is the version number of this application? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + Comment on any issues you found: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Please provide additional feedback on any aspect of the application. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**