

Turn Restrictions

Turn Restrictions

In this document we will explain how to create simple and complex turn restrictions. Basically, it is the same process, but complex turn restrictions would give us more freedom to set exact roads which are forbidden to use in some turn process

Before we start, you must enable one option in your Preferences.

- Go to **Edit\Preferences...** in main menu of the application.

- Find **Configure available plugins** and be sure that



is installed



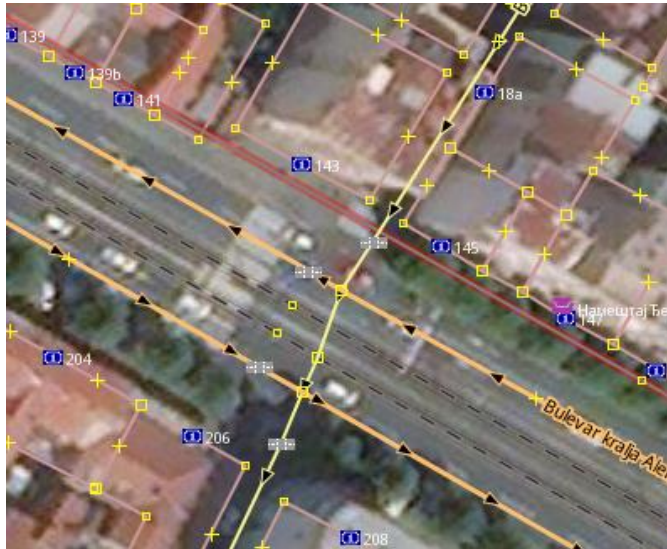
- a.If it is not installed, install by clicking at check box near the icon, and press **Update plugins**

- b.If necessary, restart application

- On the left menu that is presented in pictures, find An OSM plugin for editing turn restrictions and select option Display and edit list of via-objects in the Basic Editor

Simple Turn Restriction

- First, find and download region where you must set new turn restriction. For this practice, I will use region that I'm familiar with. It's longest street in Serbia: Bulevar kralja Aleksandra, Belgrade, near house number 206.

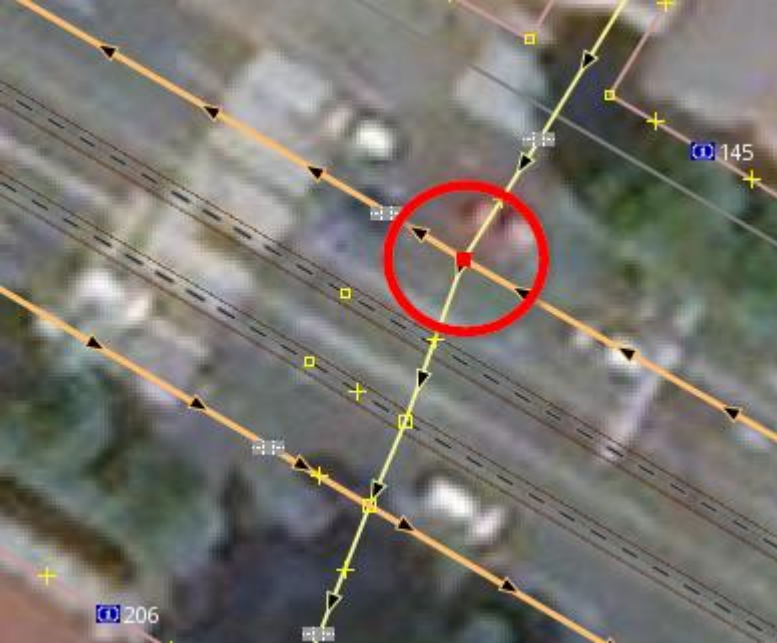


This Aerial Imagery is bad, but if you try you will see that there are two arrows that forces all traffic to go forward:

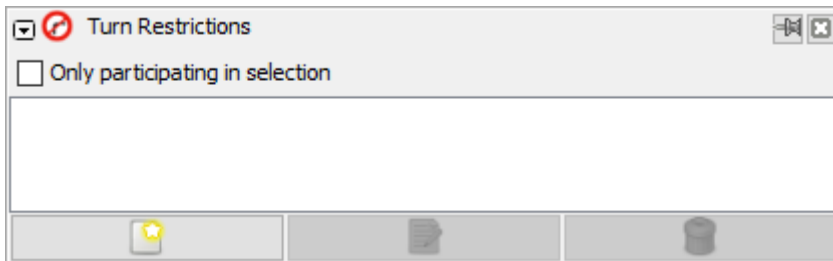


Simple Turn Restriction

- You can click to node that makes turn restriction



- Now at right side find for Turn Restrictions panel, which looks like this:



- Now press to **Create a new turn restriction** button which is only available button at the moment.

Simple Turn Restriction

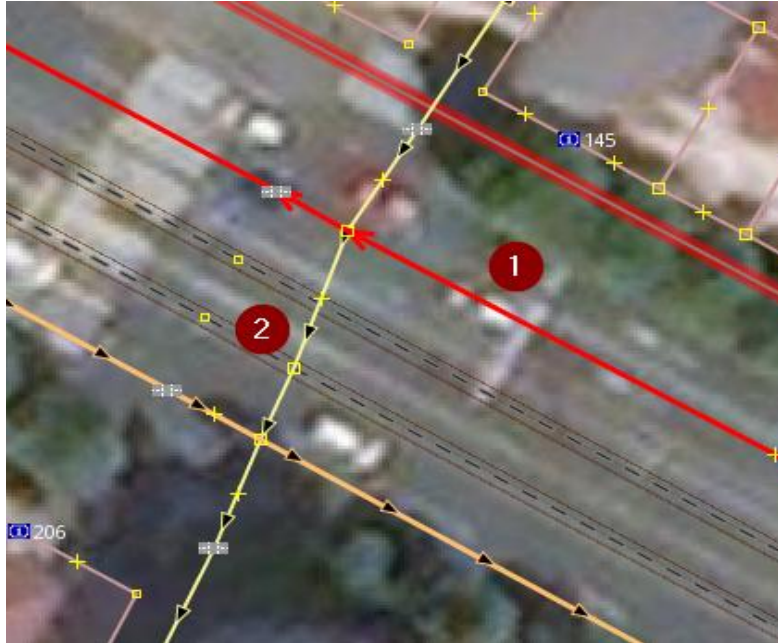
- New dialog opens



The screenshot shows a software dialog box titled "Create a new turn restriction in layer 'Data Layer 3'". It has a "Basic" tab selected, with "Advanced" and "3 errors" tabs also visible. The "Type" field is a dropdown menu showing "please select a turn restriction type". Below it are "From:" and "To:" fields, both showing "please select a way" and having selection icons. A "Vias:" text area is empty. At the bottom, there's a section "Select the vehicle types this turn restriction is **not** applicable for." with checkboxes for "Public Service Vehicles", "Motorcars", "Mopeds", "Heavy Goods Vehicles", and "Bicycles". On the right, a "Selection" list contains one item: "1209467149". At the bottom of the dialog are "OK", "Cancel", and "Help" buttons.

- From dropdown menu **Type**, select **No Left Turn**

Simple Turn Restriction

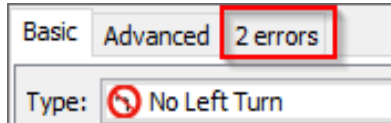
- Now select road 1



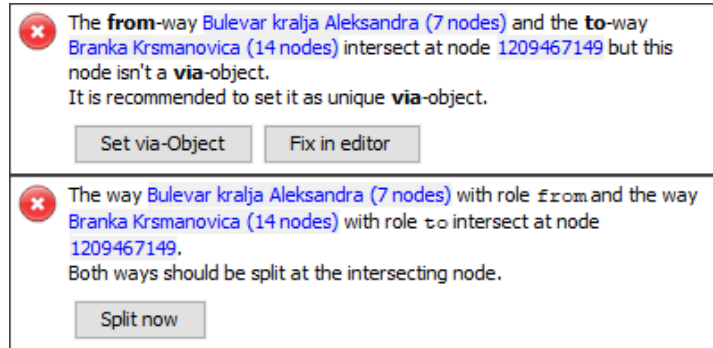
- In **Create a new turn restriction** window you will see road in **Selection** list
- Select that road and accept it as road **From** by pressing  button
- Select road 2
- In **Create a new turn restriction** window you will see road in **Selection** list
- Select that road and accept it as road **To** by pressing  button

Simple Turn Restriction

- You can check whether you have any errors



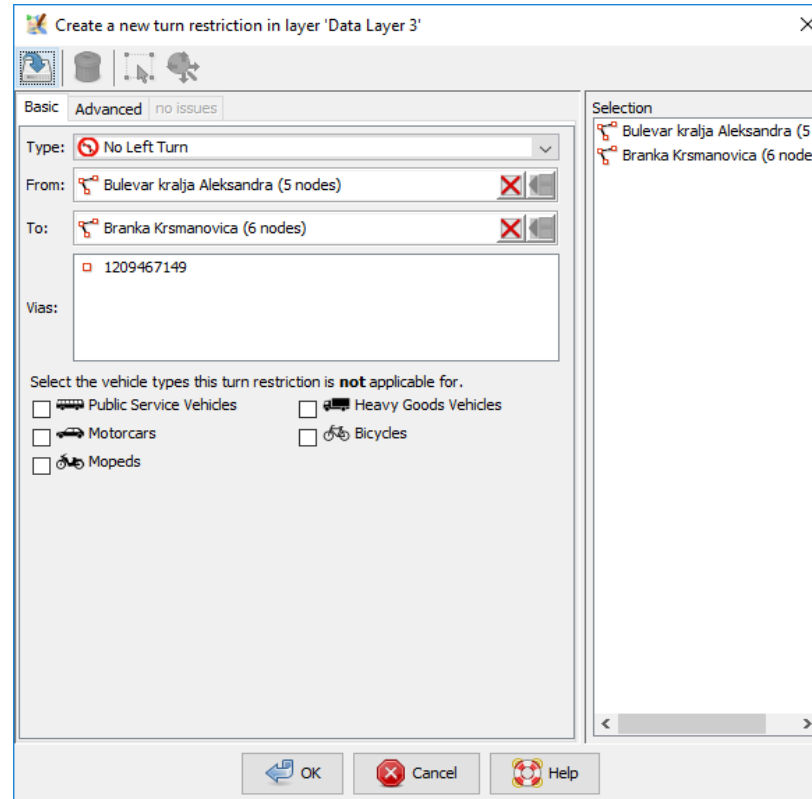
- In our situation we have 2 errors



- Second error says that road is modeled as one very long line and you have to split it at the crossing point. Fix it by pressing **Split now** button.
- Now we have only one error. That error says we two roads, but it is not clear to machine thru which road or point it is forbidden to go. Just click **Set via-Object** button.

Simple Turn Restriction

- No more issues:



The screenshot shows a software dialog box titled "Create a new turn restriction in layer 'Data Layer 3'". It has a "Basic" tab selected, with "Advanced" and "no issues" tabs also visible. The "Type:" dropdown is set to "No Left Turn". The "From:" field is "Bulevar kralja Aleksandra (5 nodes)" and the "To:" field is "Branka Krstanovica (6 nodes)". There is a "Vias:" field containing the number "1209467149". Below this, a section titled "Select the vehicle types this turn restriction is **not** applicable for." contains five checkboxes: "Public Service Vehicles", "Motorcars", "Mopeds", "Heavy Goods Vehicles", and "Bicycles", all of which are currently unchecked. On the right side, a "Selection" list shows "Bulevar kralja Aleksandra (5 nodes)" and "Branka Krstanovica (6 nodes)". At the bottom are "OK", "Cancel", and "Help" buttons.


- Confirm Turn restriction by pressing **OK** button.
- You have created turn restriction, and it is confirmed with this icon:



Complex U-Turn Restriction

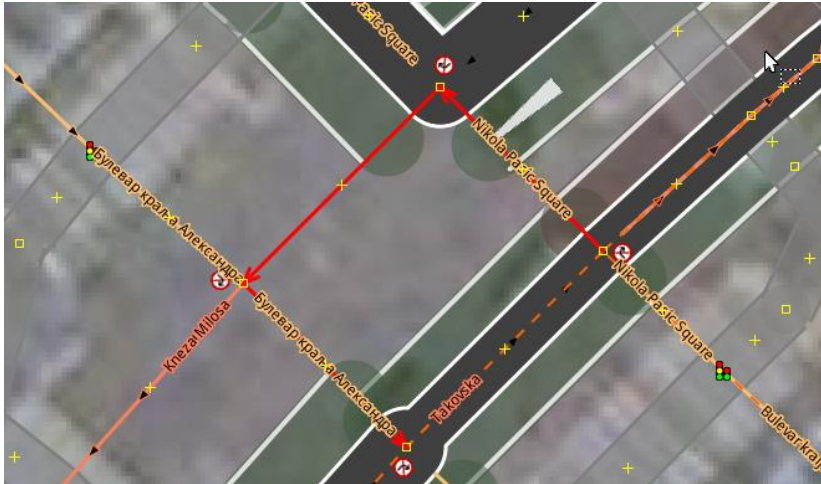
- I have found junction that missing U-Turn Restriction



- Click and select first way (Bulevar kralja Aleksandra)
- In **Create a new turn restriction** window you will see road in **Selection** list
- Select that road and accept it as road **From** by pressing  button
- Select road 6
- In **Create a new turn restriction** window you will see road in **Selection** list

Complex U-Turn Restriction

- Click **Create a new turn restriction** button
- Select **Type: No U-Turn**
- Now with **SHIFT** button select rest of the ways that you have to use to make U-Turn



- All three roads are in the list **Selection** right now. Select all of them I drag and drop to **Vias** field.
- Confirm by pressing **OK** button.