OSSA street bike information.

The best bikes/frames to use would be the 5 speed Stiletto MX or TT models. These require the least amount of work to adapt the tank and seat base. They already have a low pipe mount on the frame, cable rear brake actuation and the TT should come with a 19” front wheel.
The next best would be the 1971 Pioneer 5 speed. The frame would need the tank mounting studs moved, a different rear brake system and low pipe mount added as well as all the other modifications.

List of all the standard frame modifications:

Remove 2 rear tank mounting tabs
Remove rear seat frame hoop
Remove footpeg mounts (for rearset footpegs)
Move rear brake cable stop (for rearset footpegs)
Add seat mounts
Add tank holddown bracket if needed
Add rearset mounts if needed
Add kickstand mount to frame if needed

The 5 speed bikes work the best as the engines are more durable and have better parts availability than the 4 speed engines.

4 Speed engines and 5 speed engines DO NOT interchange in the frames. All 5 speed engines mount the same. All 4 speed engines mount the same.

Exhaust pipes DO NOT interchange with different engine sizes.

Stock low mount exhaust pipes will interfere with rearset footpegs and shifting linkage as well as a kickstand. Be sure to mock up all bracket mountings and linkage bike before final welding.

Some of the custom parts used on our street bike are available from OSSA Engineering but most of the fabrication is up to you. You can contact us at 319 393-9767 or email ossaengineering@mchsi.com for any questions or help with your project.

The 4 speed bikes/frames to use would be 1969-1970 Stiletto MX (best) or 1969-1970 Pioneer. The Pioneer would have all the same problems as the 5 speed does.

For more information on serial numbers on all these bikes and pictures, please use the Models section on the OSSA Engineering website.
For any more detailed information please call Steve at 319-393-9767.