

DISSERTATION: THE ISSUSE AND SOLUTION FORM FROM BUILDING A BYPASS AROUND EAST-MIDDLELANDS MARKET CALLED NEWARK UPON TRENT?



Expansion of the northern A46 Bypass

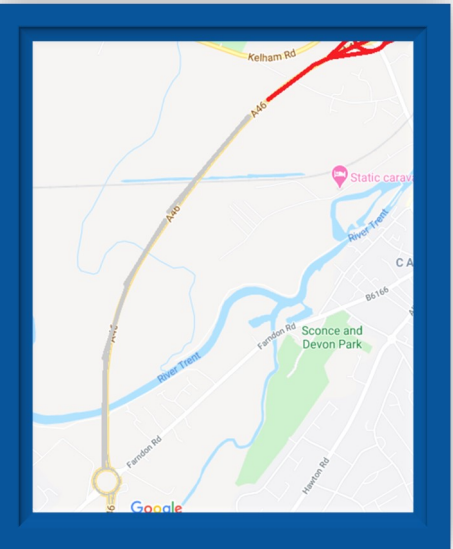
This part would be the lesser regarding complex of construction as we out be add the 2 lanes to the left hand, however we got to be careful of Arachnological as this area near one of the forts from the second English civil war and it not fully develop. As the south part is . Also it goes over to main train line with on a electric over-head cables, so got to be very careful

The Pro's

- Less complex
- May not cost as much
- Can be expending if need later
- Build along existing open road

The con's

- Could not be enough to reduce the traffic
- Could disrupt railways line
- Traffic may go trough the town



Expansion of western A46 bypass

This part I came up with 3 solutioning two are similar, my expanding the road and making it easier to turn left at roundabouts junction, one of these was adding a lane to both side however this would get to close the cricket pitch. So the other one is to expand one the left side, however it would make the junction of the roundabout between A46 and A617 wouldn't have much room separating them. So the solution I picked is like the last but it creates a overpass and bigger roundabout set more north that where is currently. But the this one as it own issues.

The Pro's

- Improve traffic flow on A46
- More Safer

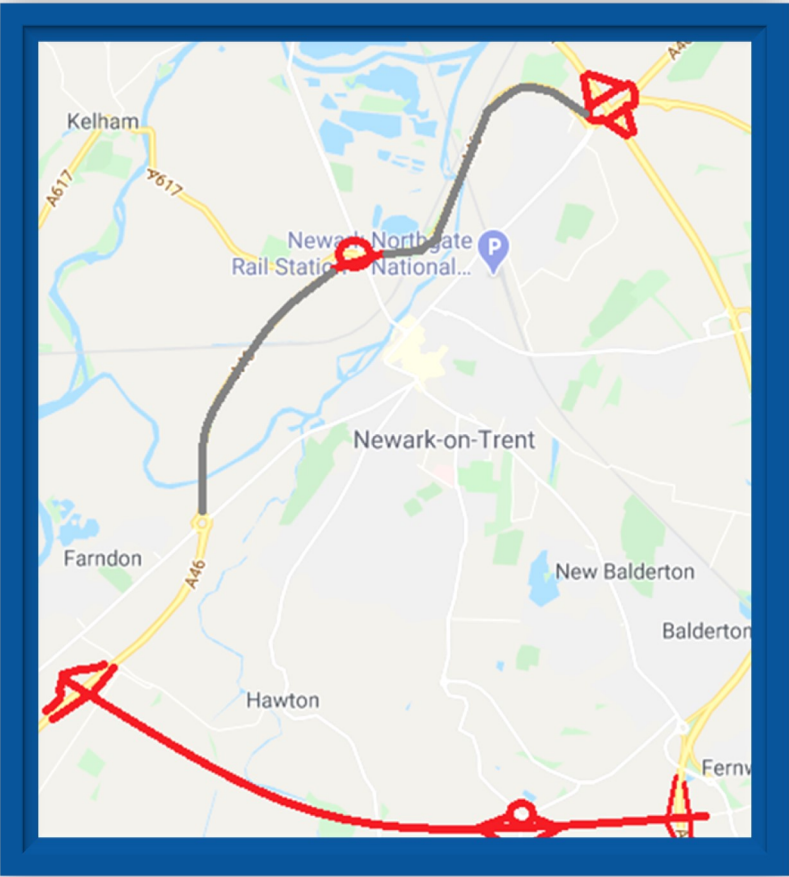
The con's

- Cost more
- A46 west need to be closed
- Working over hazards
- Completely reworking the roundabout

Introduction

This poster will explain issue and my main solutions to constructing a new bypass road and expansion around Newark.

A bit of a background to Newark that need to explain , it is an English market town with 4 villages connected to the town. It located in between Nottingham and Lincoln and for many year of the town history it had the great north road going trough it making a gateway to the north. Before the A1 and A46 was built . As well it was a battle ground in the 2nd English civil war on side of royalist.



Conclusion

As you can see I created a plan form solution I think could solve the Newark bypass issue, as I my small survey most people said that they would support a new bypass and expanding of the old bypass. But doing may need more work and alteration to roads connected / within the area of bypass. Put the biggest is problem it may not solve the traffic.

Rework A1/A46 Roundabout

As seen in picture to the left . You can see the current layout with the prosed layout on top of it.

Because of the nature of the roundabout current design their as been regular accidents mostly involving HGV or traffic backing up . There was only one way I could come up to fix this problem.

The Pros

- Extending Slip roads
- Making the roundabout long , to support move traffic
- And to make roundabout have a higher radius on arch but reduce the risk of HGV tipping over

And Regards to another point about this roundabout about 605 accord to my survey trough that this Roundabout was Dangerous



The cons

- Need to do a compulsory land buy
- Would need a lot of redirections
- May cause backing up traffic in Newark

New Bypass (South)

This part had 3 similar design and I went with a design to allow Industrial traffic easier access to the A1 and A46 , it also connects Fernwood to farndon .

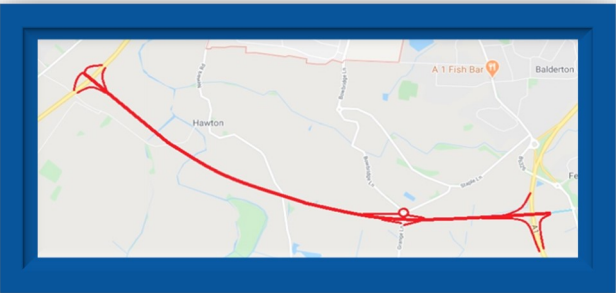
Constructing anything in Newark has it risk of Arachnological Finds but this section and northern bypass are the closes point to the two earth mount forts it the town so they may be more around these areas.

The Pro's

- It takes most HGV away from Balderton Round about and London road
- Protentional allow better movement of traffic around Newark
- Safer

The con's

- Cost more
- Need to upgrade town road near Fernwood to support this
- Drops some traffic off near a propose school site
- Need to remove a slip lane



Bibliography

Survey Monkey Results shown after this section/at the bottom of this.

All Images came from Google Maps. 2020. Google Maps. [online] Available at: <<https://www.google.co.uk/maps/@53.0949766,-0.783578,3a,75y,212.57h,85.84t/data=!3m6!1e1!3m4!1sR4PytHUFQuQ2FB15bH2pFQ!2e0!7i13312!8i6656>> [Accessed 1 May 2020]. And then alter in MS Paint me

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