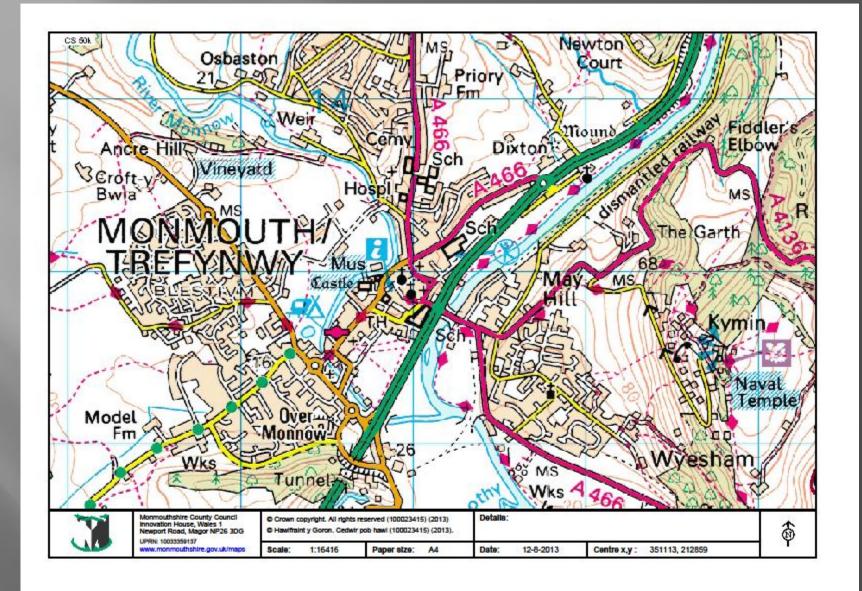
#### WYEBRIDGE JUNCTION, MONMOUTH

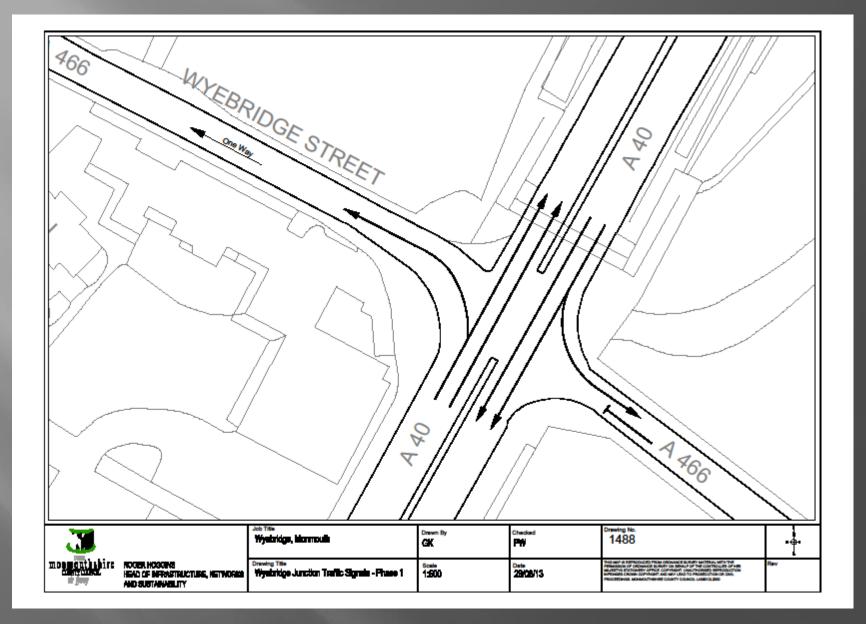
**Junction Capacity and Pedestrian Improvements** 

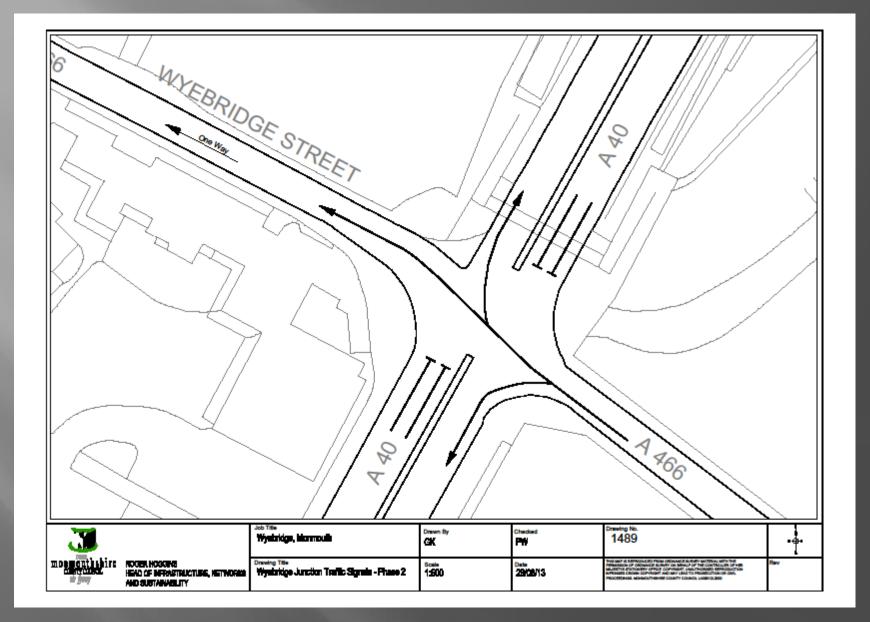
Presentation to Central Monmouthshire Area Committee 18<sup>th</sup> July 2018



- History
- Current A40 built in 1960's as a town bypass
- It separates Wyesham from rest of Monmouth
- Signal controlled junction established
- Subsequently Wyebridge Street made one way away from A40

- Traffic Signals Operation
- Two stages:-
- 1. Both A40 approaches two lanes
- Right turns banned no conflicting movements
- 2. A446 Wyebridge approach
- No pedestrian stage
- The only pedestrian facility is a subway









- Issues
- Junction operating over capacity
- Extensive queuing and delays at times on A40 southbound and A466 Wyebridge approaches
- Intimidating subway with blind 90 degree bends causing personal safety concerns
- At night some pedestrians cross on carriageway
- Air quality

- A40 Traffic Flows (July 2011)
- Southbound 21751 vehs/day
- Northbound 16993 vehs/day
- Typical inbalance 4500 vehs/day

# Queuing through Dixton Roundabout



# And back towards England

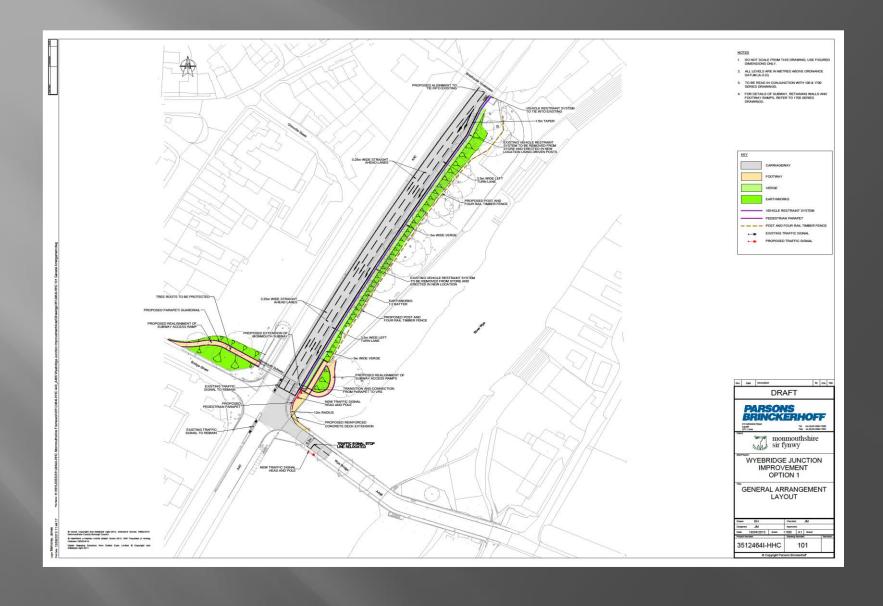


- What capacity improvements are possible?
- Existing controls efficient, only two phases
- No improvement possible with existing layout
- Hence two outline options considered
- 1) Widening Wyebridge
- 2) Widening A40 southbound approach

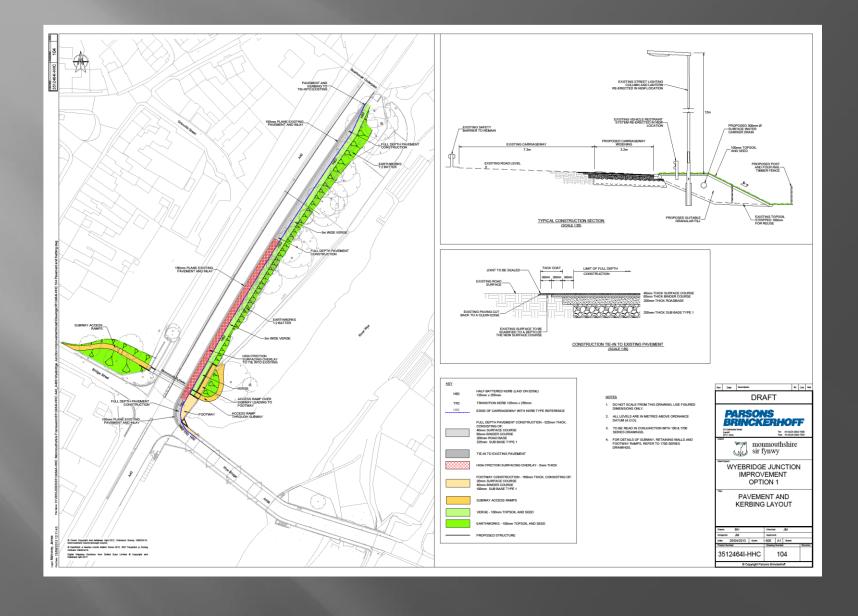
- 1) Widening Wyebridge
- Limited traffic benefits
- CADW not in favour
- Option not progressed

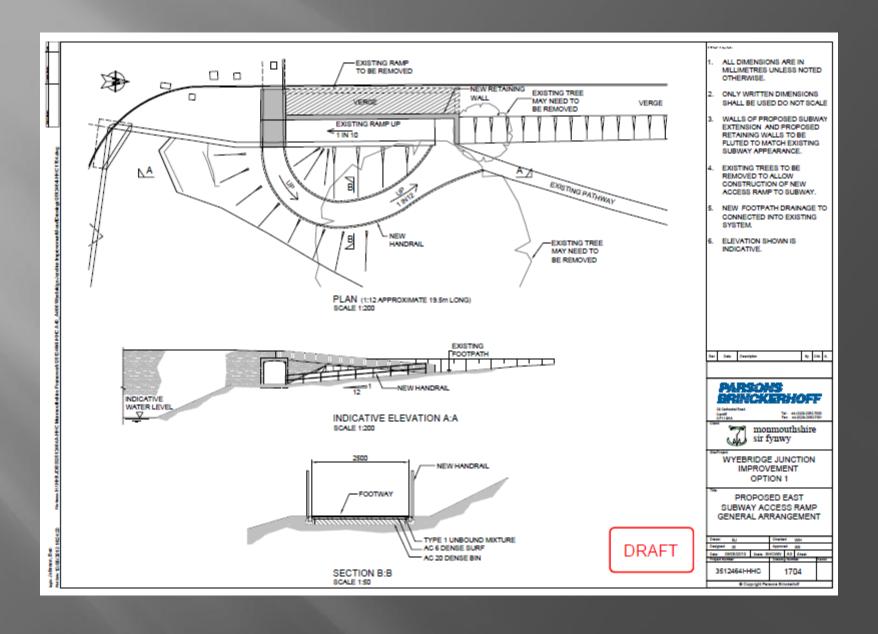
- 2) Widening A40 Southbound Approach
- Between Rowing Club Underpass and Signals
- Greater capacity improvements
- CADW agreeable in principle
- Option developed further

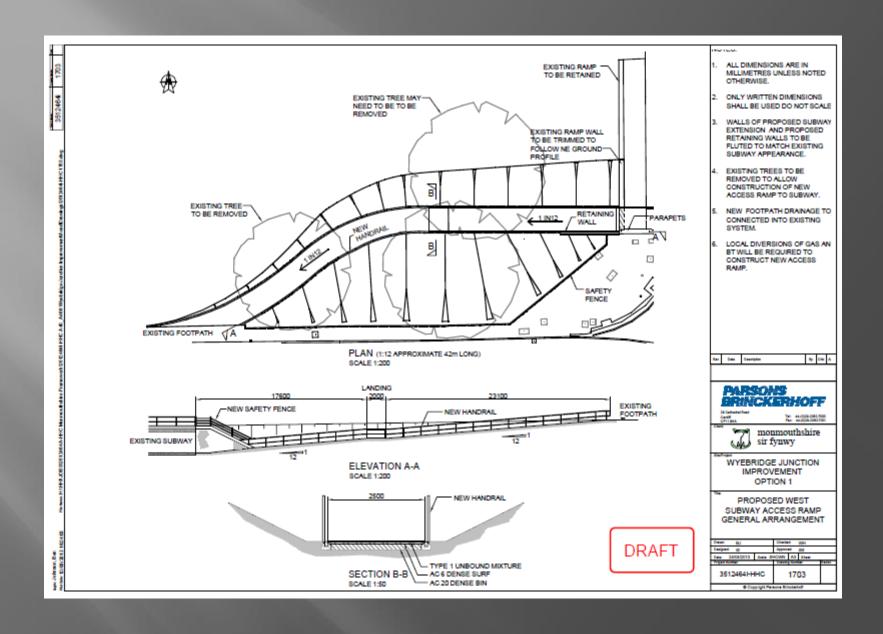
- What pedestrian improvements are possible?
- Land constraints in 1960 led to double ramp design on each side of A40
- Subsequent Wyebridge Street building demolition
- and Riverside land
- Allow sharp bends to be eliminated



- Features
- Local widening creates 170m third s'bound lane
- Dedicated for left turning traffic
- Existing two lanes for straight ahead traffic
- Bridge arch widening to accommodate footway
- Straight pedestrian ramp on town approach
- Curved pedestrian ramp on riverside









- Traffic Benefits
- Currently A40 southbound and Wyebridge approaches at 100% peak period capacity, and
- A40 southbound exceeds 100% at pm peak
- Scheme improves PRC by 11.5%
- Southbound saturation flow increased by 48%
- Peak period queues much reduced

- Pedestrian Benefits
- Straight approach to subway from town
- Open view spiral approach from bridge
- New ramps at 1 in 12 (existing 1 in 10)
- Links to Granville Street and boathouse retained

- Air Quality
- Two NO2 monitoring sites adjacent A40
- Recent readings exceed 40ug/cm
- Likely to soon be Air Quality Management Area
- Local residents campaigning for particulate level monitoring
- And for noise level reduction

- Land acquisition
- Land take all within MCC or WG control

- Summary of Benefits
- Junction operating within capacity at all times
- More conducive pedestrian environment
- Air quality improvement

- Site Constraints
- Habitats Regulations Assessment
- Site of Special Scientific Interest
- Special Conservation Area
- Bridge is a Listed Structure (CADW)
- Site of Archaeological Interest
- A40 Embankment is Flood Defence
- Flood Consent

- Buildability
- Three distinct phases
- Widening western arch
- Extending subway and realigning approaches
- Widening A40
- Widening arch is the most problematic
- Involves working from riverbed
- Closing footway

- Buildability
- Pedestrians to be accommodated
- Vehicles to be accommodated
- Services
- BT
- Welsh Water
- WPD
- British Gas

- Studies and Reports
- Preliminary Safety Audit
- Preliminary Environmental Assessment
- Air Quality Assessment
- Flood Considerations
- Ground/Site Investigation
- Design Considerations
- Construction Methodology Report

- Town Side Pedestrian Ramp
- BT diversion cost £450k
- Car Park Proposal
- Works Deferred

- Costs
- Current estimate £3 £3.5m

- Next steps
- Bid for further Local Transport Fund monies
- Public Exhibition
- Detailed design and contract preparation
- Could be constructed late spring autumn 2018

- Other options previously considered
- Dixton Roundabout to Hadnock Road
- no logical tie in on east bank
- A40 Monnow Bridge A466 Redbrook Road
- awkward roundabout tie in at Monnow Bridge, not acceptable to WG
- land acquisition and property demolition
- cost

#### What next?

- Public Exhibition/ Consultation 2017 positive support for scheme
- Funding
  - Bid to WG TFG unsuccessful based upon value of scheme
  - WG offer of Pinch Point Funding subject to conditions:
  - MCC to complete WelTAG
  - MCC to make £300k contribution and accept risk
- Programme
  - August 2018 finalise design incl. WelTAG and invite tenders
  - November 2018 award contract
  - February 2019 commence works (9 12 month duration)
- Next key action:
  - Seek member support for capital contribution / acceptance of risk