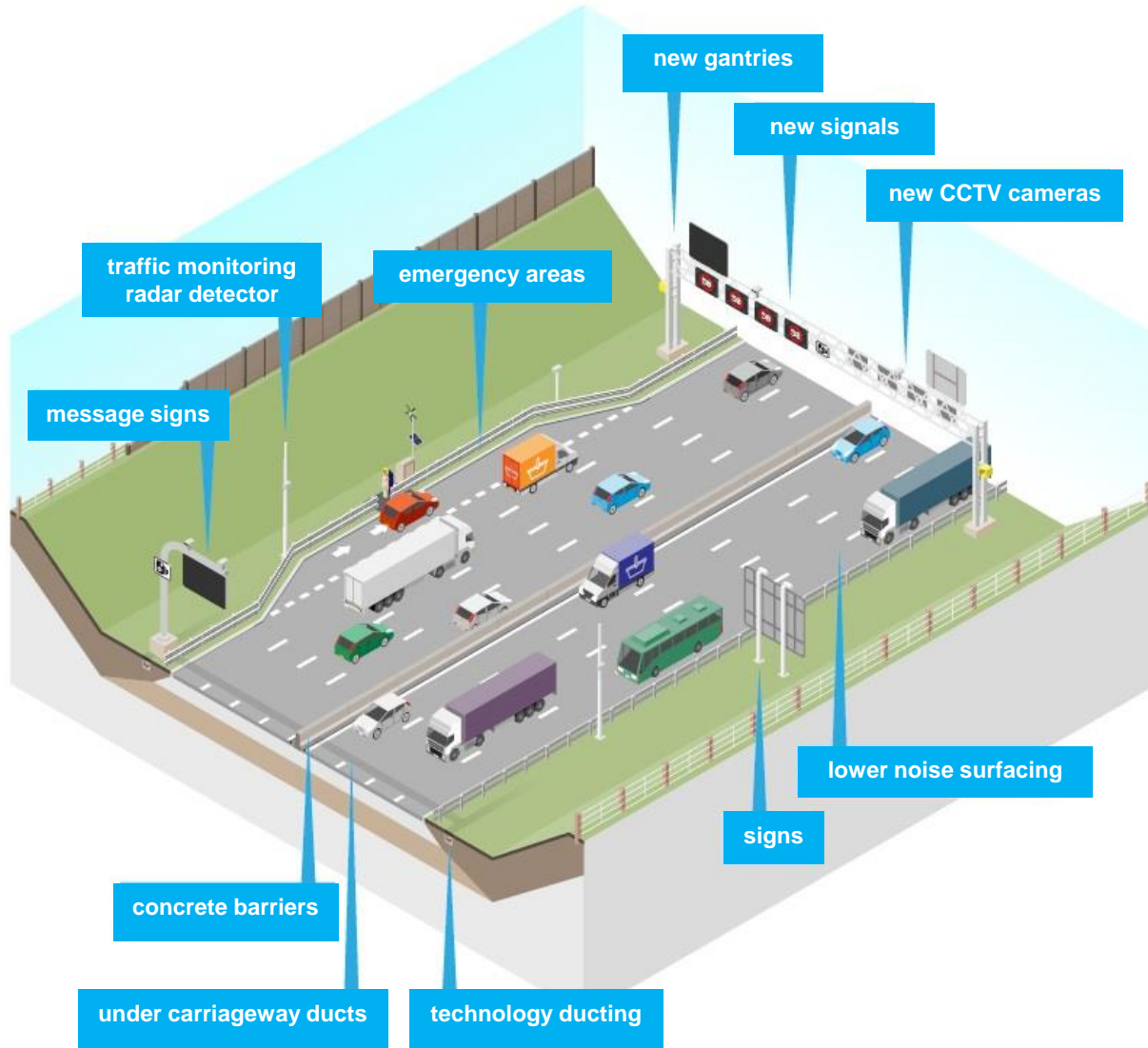


M20 J3-5 Smart Motorway

Parish Partnership Panel

15 November 2018

What is a Smart Motorway?



Technology driven approach to improve capacity and relieve congestion.

Convert hard shoulder into a permanent traffic lane, widening the motorway.

27 New gantries and electronic road signs to give information about road conditions and speed limits to help smooth the flow of traffic.

5 New high visibility yellow paved emergency areas to provide an area of safety in event of breakdown.

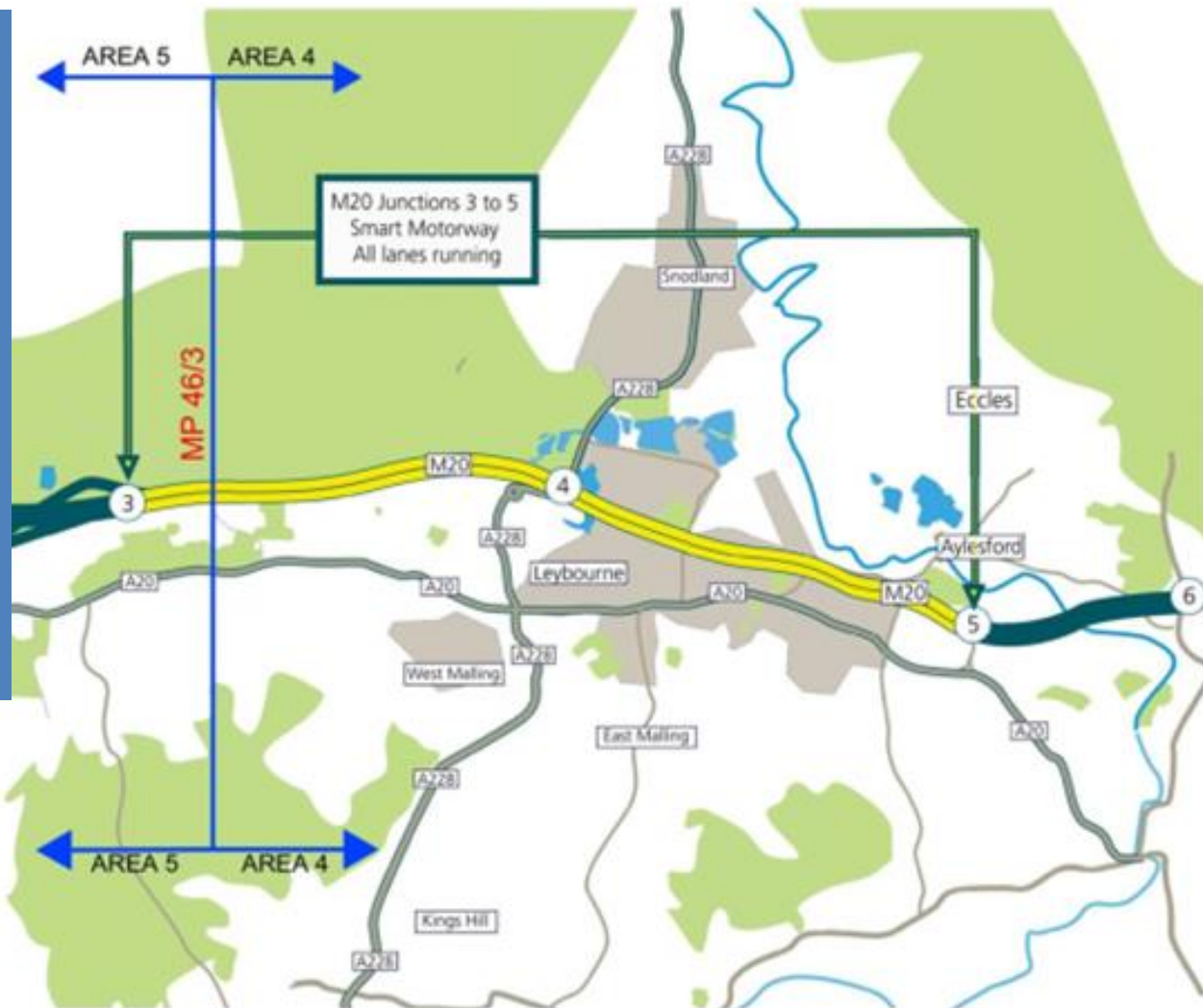
Smart Motorway benefits

- 33% additional capacity to ease congestion.
- Technology creates more reliable journey times.
- Facilitates economic growth.
- Improved customer experience through provision of journey information.
- Significantly less cost, disruption and environmental impact than traditional widening scheme.
- At least as safe as existing motorways, which are some of the safest in the world.



M20 J3-5: Why build a smart motorway?

Travel between J2 and J3 has the lowest journey time reliability measurement on the M20 of 65.9%.



Kent Corridor Coordination Group

Kent Corridor Coordination Group

The image displays the logos of the following organizations:

- highways england**: Logo featuring a stylized blue and white road graphic.
- Kent County Council**: Logo with a red shield containing a white horse and the text "Kent County Council kent.gov.uk".
- Medway COUNCIL**: Logo with a blue wave graphic and the text "Medway COUNCIL".
- Balfour Beatty**: Logo with a large blue "A" and the text "one+ Balfour Beatty". Below it, smaller text reads "Integrated Highway Services" and "A CH2M | COLAS | COSTAIN COMPANY".
- Taylor Woodrow**: Logo with the text "TAYLOR WOODROW" and a red diamond icon.
- Vinci**: Logo with the text "VINCI" and a red diamond icon.
- GRANDIS PROJETS**: Logo with the text "GRANDIS PROJETS" and a red diamond icon.
- KIER**: Logo with a red and green square graphic and the text "KIER".
- Connect Plus Services**: Logo with a blue circular graphic and the text "Connect Plus Services".
- CONWAY**: Logo with a colorful circular graphic and the text "CONWAY great people : great work".
- MARTIN**: Logo with a green rectangular graphic and the text "MARTIN GROUP OF COMPANIES".
- Turner & Townsend**: Logo with a blue square containing a white grid pattern and the text "Turner & Townsend".

M20 Smart Motorway

Progress to date

- Installation of narrow lanes & 50mph limit
- Demolition of Teapot Lane Footbridge
- Preparing installation of Teapot Lane Footbridge: Nov 16-19
- Grubbing out tree roots and top soil removal
- Drainage and ground investigation surveys

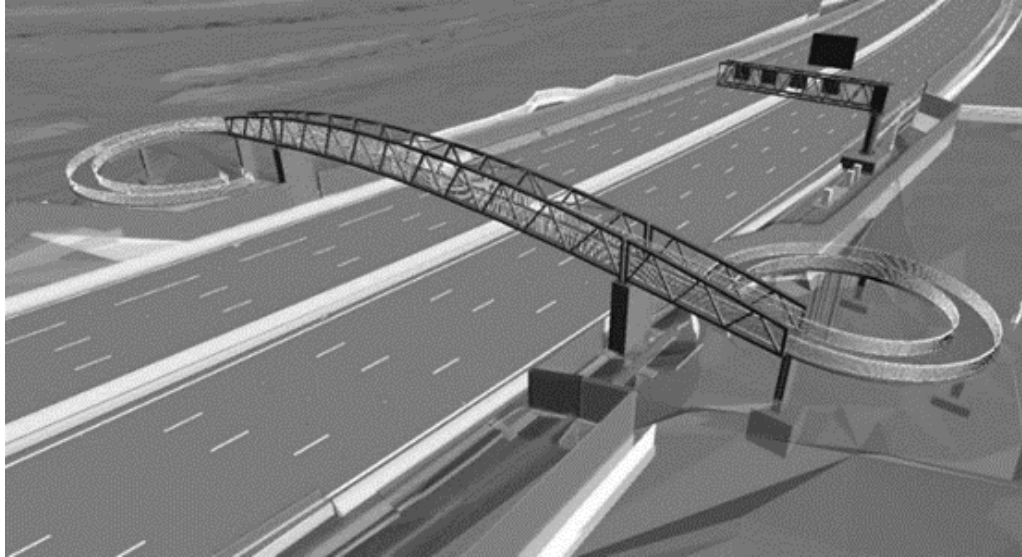


Progress to date

- Removal of 7 gantries November 5-12
- Removal of vehicle restraint system
- Temporary removal of noise barriers in some locations e.g. Teapot Lane Footbridge



What's next: Closures/Diversion



- Weekend closure M20 J4-6: November Friday 16 10pm – Monday 19 November 6am
- Installation of Teapot Lane Footbridge
- Communication via Variable Message Signs, media, email updates, posters, letters to neighbours

Letter to Teapot Lane Neighbours



0300 123 5000
www.highways.gov.uk

November 2 2018

Dear Resident

CONSTRUCTION ACTIVITY ON THE M20 AROUND TEAPOT LANE FOOTBRIDGE: Fri 16 November – Mon 19 November 2018

On the evening of Friday 16 November we will be closing the M20 between junction 4 at Leybourne and junction 6 for Maidstone to allow us to install the new Teapot Lane Footbridge.

To enable us to re-open the motorway before the Monday morning rush hour, **construction activity will be taking place day and night** and it is likely that you will hear and see our work. We wanted to warn you in advance and tell you what measures we are taking to reduce the impact we have on people living nearby.

What construction activity is taking place?

On this weekend we will be installing the new, steel footbridge deck, which has been manufactured in Hythe, Kent.

The motorway closure will begin at 10pm on Friday 16 November. The crane to lift the three bridge sections into place will be set up in the early hours of Saturday morning.



Figure 1 Computer generated image of new footbridge

Lifting the sections into place is due to take place as soon as the crane is ready on Saturday morning. Each section will be bolted into place. Both this and the movement of the crane and large vehicles carrying the bridge sections will generate noise. We have briefed the construction teams to be mindful that they are working in a highly residential area and to keep noise to a minimum whenever possible. Overall, the work should be less intrusive than the demolition in September. Please note that all times are subject to change in case of poor weather or other incidents.

Why are we doing this work?

The bridge deck is being replaced to increase the height of the bridge. We are doing this work because we are converting the hard shoulder of the M20 into a traffic lane and need to allow space for vehicles on this lane. This is part of the work we are doing to upgrade the M20 junctions 3 at West Malling to 5 at Aylesford to a smart motorway to increase the capacity of the motorway and improve the flow of traffic.



0300 123 5000
www.highways.gov.uk

When will the footbridge re-open?

We will remove the barriers around the footbridge and open access to the bridge as soon as all safety checks have been carried out. This is likely to be during the week of November 19.

We hope this information is useful and again we apologise for any disturbance we cause you during our work. If you have any questions please email them to: M20.J3-5Smart@highwaysengland.co.uk or contact Highways England Customer Contact Centre on 0300 123 5000.

You can also sign up for updates on the scheme website here: <https://highwaysengland.co.uk/projects/m20-junctions-3-to-5-smart-motorway/>

Yours sincerely,

Steve Mack,

Project Director,
Kier (working for Highways England)



Diversion Route: M20 J4-6 Closure



What's next: construction activity: November - December

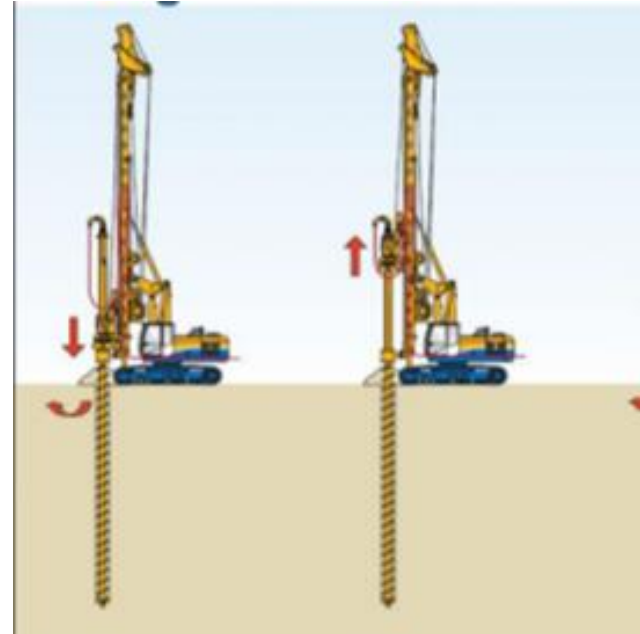


Figure 3: Sodium compared to new LED lighting

- Existing lighting
- Installing Teapot Lane Footbridge
- Replacing permanent road signs with temporary

What's next: construction activity: November - December

- Starting piling to prepare foundations for new gantries
- Extended working hours: 6am-11pm for some activities
- Drainage replacement work



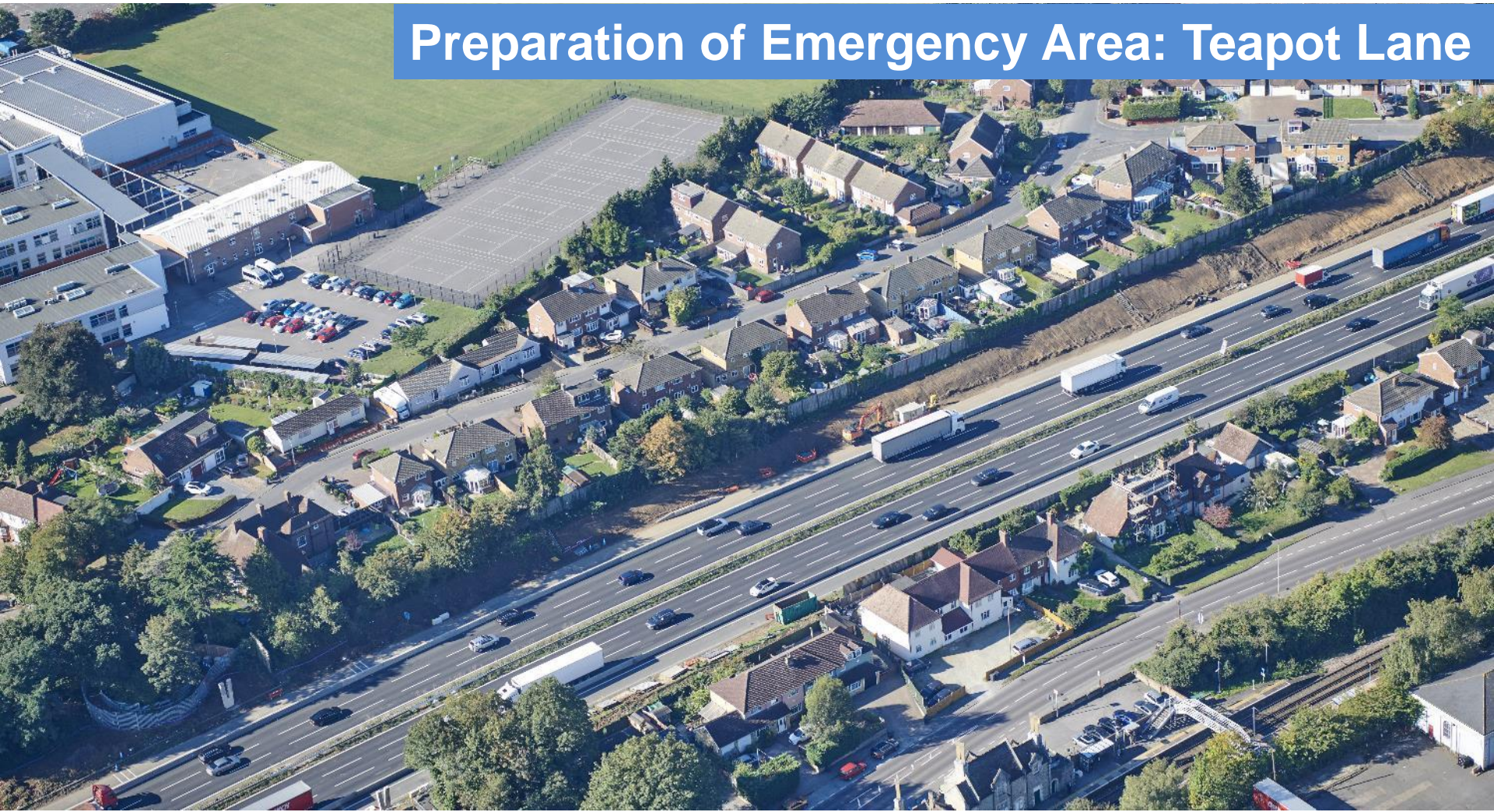
What's next: construction activity: 2019 January onwards

- Prepare to install 27 new gantries
- Continuing to build 5 emergency refuge areas
- Drainage improvements
- Lane resurfacing
- Closure dates for 2019 to be announced in December

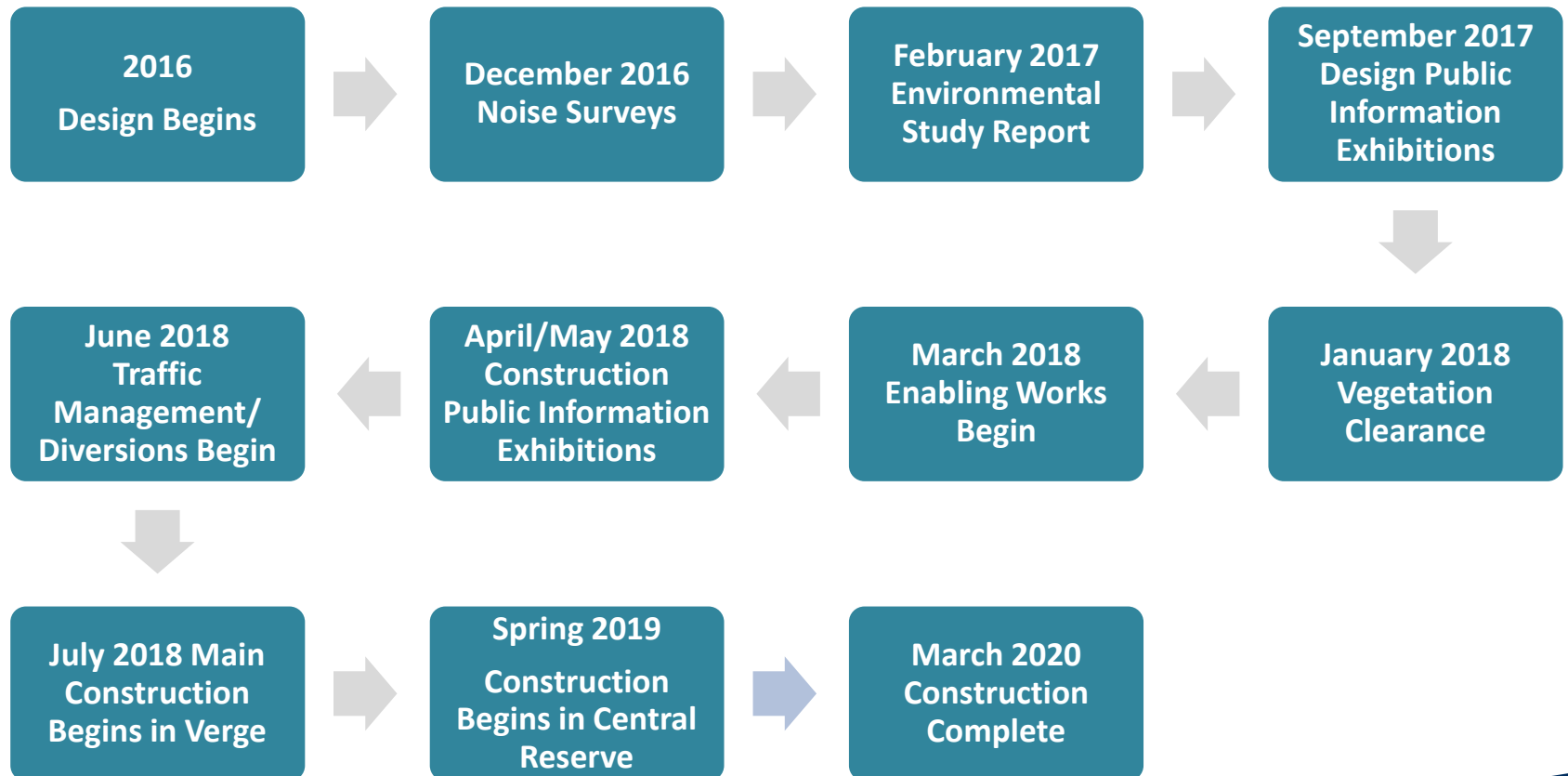
Central reserve works begin in Spring 2019

- Removal of metal barrier, replaced with concrete
- Lane resurfacing

Preparation of Emergency Area: Teapot Lane



M20 J3-5 timeline



Public concerns & mitigations

- Significant journey delays caused by closures and multiple roadworks on M20, M2, M26 → Kent Corridor Co-ordination Group: co-ordinating closures to minimise disruption and prevent clashes
- Replacement planting of vegetation → Meetings with scheme neighbours
- Replacement of noise barriers → Noise barriers replaced in spring 2019 – screening erected where possible

Public concerns & mitigations

- Diverted not using signed diversion e.g. issues around Sandling Lane → Additional signage: e.g. **No Access for Diverted Traffic**

QUESTIONS/THOUGHTS