



Havant Thicket Reservoir – Main Pipeline Works
Construction Traffic Management Plan – Shaft 1 RMA
HTR-WAB-PI-W1-PL-W-0001

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Suitable for construction approval

Issue and Revision Record

Havant Thicket Reservoir – Main Pipeline Works

Construction Traffic Management Plan – Shaft 1 RMA

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1 Abbreviations and Definitions

Client	=	Portsmouth Water Limited
Contractor	=	Ward and Burke Construction Limited
CTMP	=	Construction Traffic Management Plan
HGV	=	Heavy Goods Vehicle
HTR MPW	=	Havant Thicket Reservoir Main Pipeline Works
HTR MRW	=	Havant Thicket Reservoir Main Reservoir Works
PW	=	Portsmouth Water Limited
RAMS	=	Risk Assessment / Method Statement
TPC	=	Travel Plan Coordinator
UTX	=	Under Track Crossing
WBCL	=	Ward and Burke Construction Limited

2 Introduction and Aims

The Construction Traffic Management Plan (CTMP) has been prepared by Ward and Burke (WBCL) for the works involved in the construction of the Havant Thicket Reservoir, Main Pipeline Works (HTR MPW).

A Reserved Matters application is being submitted under the outline planning permission for the pipeline (Ref. APP/20/00991), to allow installation of shaft 1 only (no pipelines) prior to any potential future development of this land (which is now owned by Bellway Homes). If the Reserved Matters application is successful, the shaft will be installed in Summer 2024. Once installed, the shaft will not be visible apart from a manhole cover. This will be the only phase that will be discharged under the approved outline permission. The pipeline scheme will be the subject of a new revised pipeline application which will be accompanied by a new, scheme-specific CTMP.

This CTMP is submitted, alongside the Construction Worker Travel Plan (CWTP), to discharge Planning Conditions 7 and 8 of the approved pipeline permission. It details how WBCL will manage construction traffic and site operations, considering hours of operation, traffic routing, safe flow of traffic on site and how the construction traffic will impact the surrounding neighbourhood and highways. It will remain a live document until works are complete and will be updated by WBCL where necessary. The CTMP is aligned to the approved Framework Construction Traffic Management Plan dated 31/03/2021.

It has been agreed with Havant Borough Council and Hampshire County Council (Local Highway Authority) that a partial discharge of Condition 7 is appropriate provided all of the relevant details related to this phase are provided and approved prior to commencement of the phase being commenced.

This document is required to discharge Condition 7 and 8 of the planning permissions.

Condition 7 - Construction Traffic Management Plan (CTMP), Traffic Management and Construction Measures	
A) <i>No development shall take place until a CTMP has been submitted to, and approved in writing by, the Local Planning Authority (in consultation with Hampshire County Council as local highways authority).</i> B) <i>No phase of the development approved under Condition 4 shall commence until a phase specific CTMP for that parcel has been approved in writing by the local planning authority. The CTMP shall include all commitments set out in the framework CTMP, dated 31/03/2021, submitted with the planning applications and will include a Construction Traffic Management Strategy and Construction Worker Travel Plan. The CTMP shall include the following:</i>	
Detail	Where addressed in this CTMP
Vehicle routing plans	Appendix 1
Proposed programme and duration	Section 9
Number of construction personnel including travel arrangements and mitigation	Section 10
Alteration to the highway, including temporary and/or permanent, to enable construction	Section 7
Traffic management details	Section 6
Compound and laydown area details	Section 13

Highway condition survey	Section 7
Methods for managing the site to prevent mud onto the highway	Section 5
Details of on-site contractor parking	Section 13

Condition 8 - Construction Traffic Management Plan (CTMP), Traffic Management and Construction Measures	
<i>No phase of the development approved under condition 4 shall commence until a phase specific traffic management and construction measures for that parcel has been submitted to, and approved in writing by, the Local Planning Authority. This shall include the following:</i>	
Detail	Where addressed
Vehicle, pedestrian, and cyclist diversion plans	Section 8
Details of type of traffic management	Section 8
Details of highway reinstatement	Section 6
Construction methodology and details	Section 5
Material and spoil storage	Section 7

3 Site Wide Framework Construction Traffic Management Plan

The following commitments are included in the approved Framework CTMP in relation to construction along the entire pipeline route.

Commitment	Explanation
Prepare an overarching CTMP for approval by the Highway Authority prior to commencement of any phase or works area.	To manage the impact of HGV traffic on the highway, the reservoir and pipeline contractor (s) will prepare one overarching CTMP for approval. CTMP addendums will then be approved prior to commencement of each phase of work if appropriate.
The southern access will only be used for construction of the top third of the pipeline and to connect utilities on Swanmore Road to the south.	Construction traffic for the lower two thirds of the pipeline will access the pipeline corridor directly from junctions 2 and 3 of the A3 (M). As part of the site set up there will be a need to connect to utilities on Swanmore Road which will require some minimal construction traffic movements through the southern access.
The number of site workers along the pipeline route will be restricted to 125. Staff travel will be restricted to off-peak periods.	The environmental and transport assessments were based on 250 site workers travelling in peak hour (125 for reservoir and 125 for pipeline), this showed no significant impact. In order to minimise impacts, Portsmouth Water commits to restricting pipeline workers on site to 125. Any requirements for an increase in numbers will require approval from the Local Highway Authority.

Restrict HGV movements to up to 6 per hour with no more than 30 per day. With a day being defined as a 6-hour interpeak period. On Saturdays, HGV movements will be restricted to 6 per hour between 9am and 1pm.	For assessment purposed, it has been assumed that the pipeline construction would be undertaken concurrently with the embankment section of the reservoir, which is expected to generate up to 30 HGV movements per day. The commitment is to spread these movements across a 6-hour day. Any requirement for an increase in numbers will require approval.
Contractor parking area will be provided within the Construction Support Site.	Parking for all contractor staff will be provided within the Construction Support Site in the north west corner of the reservoir to ensure no parking on local residential streets.
A minibus will shuttle staff to and from the CSS welfare facilities.	To minimise the impact of staff, travel on the local highway network.
Develop alternative routing strategy for PRoWs.	There will be a need to temporarily divert footpaths and public rights of way. Diversions should not add a material distance onto the footpath and timeframes for diversions to be kept to a minimum.
The contractor will review construction sequencing to reduce impact of closures.	Proposed full, partial, and night-time only road closures are identified in the 2020 Environmental Statement Chapter 13 (p30). Further development of the construction sequencing may allow partial lane closures within a section of road removing the need for a full closure. Traffic management measures identified in Table 13-11 will provide a framework for anticipated road closures.
Routing through Leigh Park for HGVs will be minimised unless necessary to reach a section of pipeline within this area and is to be agreed with the Highway Authority.	To ensure the principal road network is used where possible in the interest of road safety and to reduce the time period an impact may be experienced by the local population.
School term times will be avoided where the pipeline route runs close to schools. Where HGV routing passes a school site, the contractor will include measures within the CTMP to mitigate impact of HGV traffic on school drop off and pick up movements. This will include appropriate supervision in these areas and works will be stopped if appropriate.	Where school term times along the pipeline route cannot be accommodated, there will be appropriate supervision in these areas and works will be stopped if appropriate. The full CTMP must include plans identifying all schools along HGV and pipeline route.

The above table takes into consideration the traffic management parameters that must be considered when undertaking the works within the pipeline construction. This document considers Phase 1 of construction, which will be the only phase discharged under this planning permission. All remaining phases will be incorporated into a new full planning application.

4 Phase 1 Construction Management Traffic Plan

Site Details

The site is located in Havant, adjacent to Bedhampton Station. The site is accessed via Meyrick Road, as shown in Fig. 1.

All vehicle traffic will enter site via route RE2, as shown in Figure 2, leaving the A3(M) and travelling to site via Meyrick Road. The What3Words location to quote for the main site entrance gate is:

///shirt.game.stars

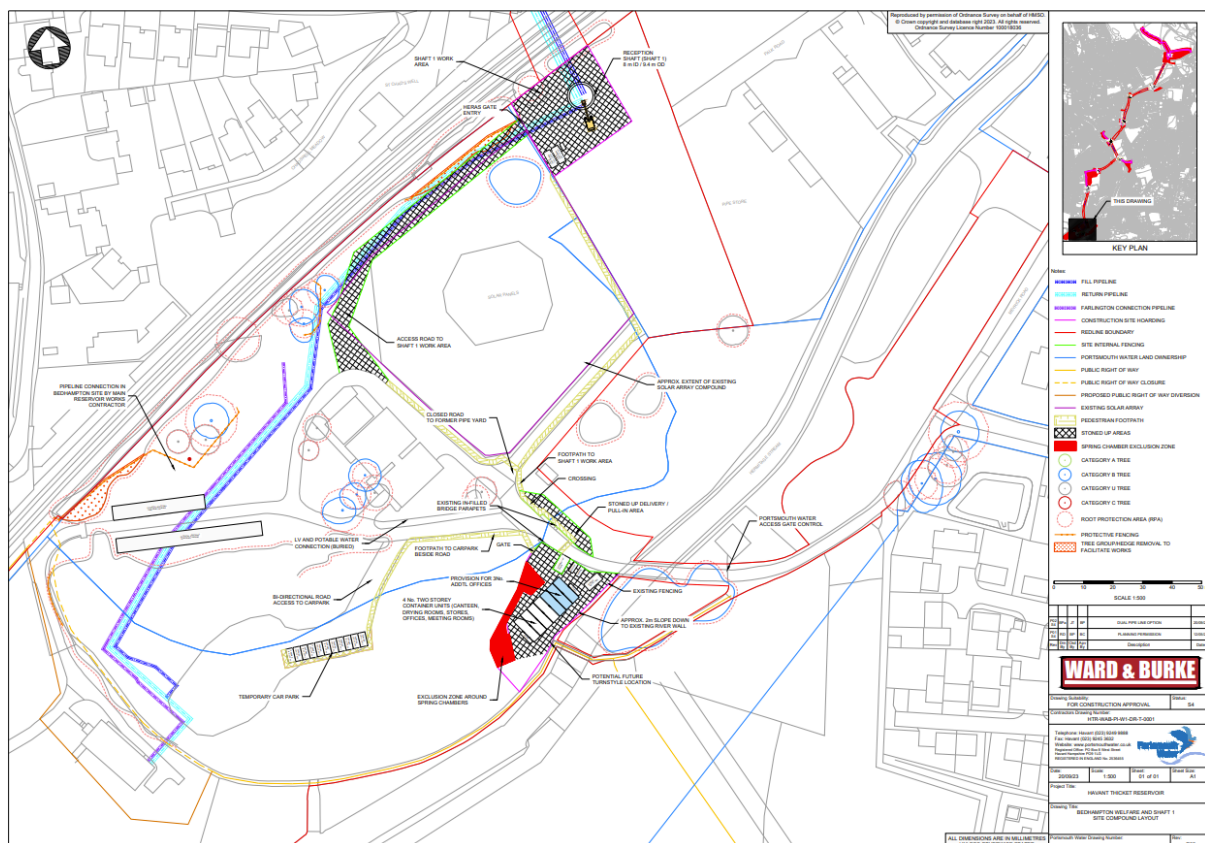


Fig. 1 Site access plan via Meyrick Road

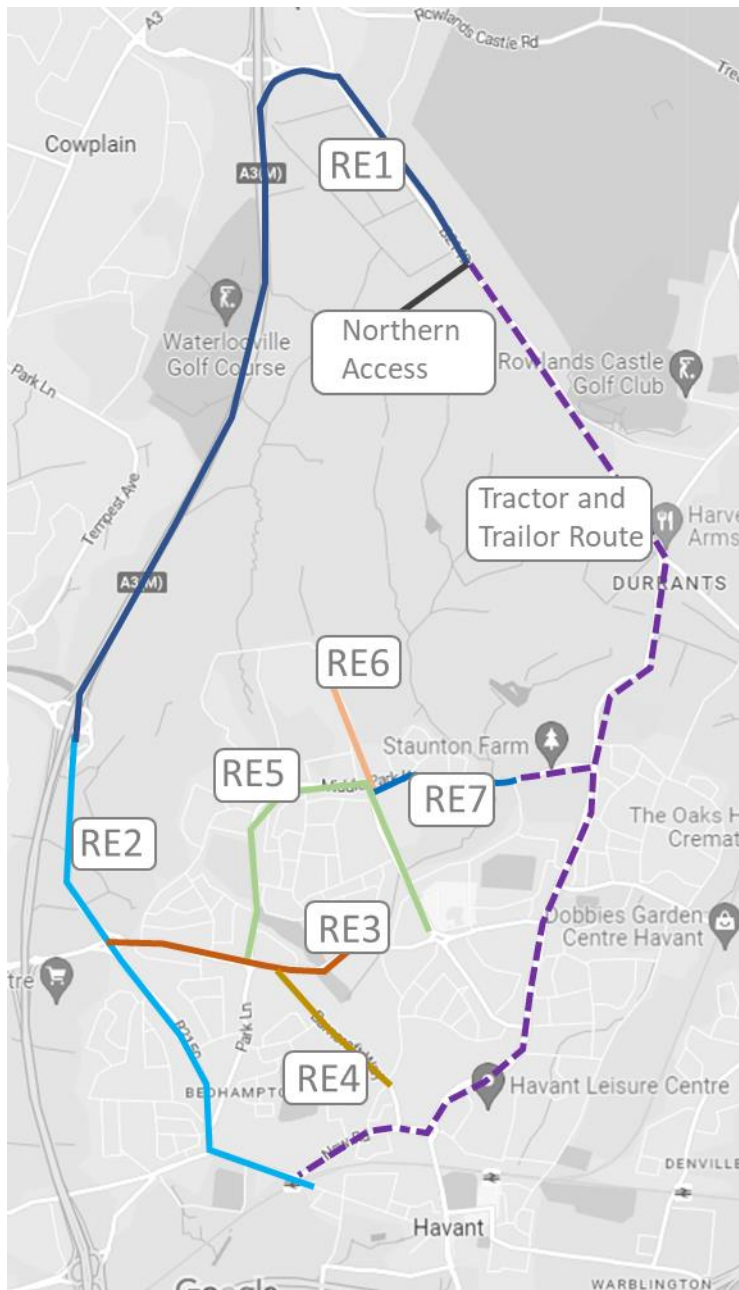


Figure 2 Site Vehicle Routing plans

5 Scope of Construction Activities

The scope of works to be undertaken during the shaft 1 construction is as follows:

- Compound set-up
- Excavation works
- Installation of cutting shoe
- Concrete pours to form caisson
- Sinking of caisson
- Concrete base pour

6 Proposed Works Area Access Point

Throughout the construction of shaft 1, construction traffic will access and egress the site using the main entrance on Meyrick Road. At this entrance, a gate person will tend to all traffic on and off site, ensuring that any deliveries have been pre-booked and ensuring that all vehicles leaving site have made use of the wheel washing facilities available to avoid debris getting onto the main highways from site traffic. A road sweeper will be available on site if debris does not get washed completely off vehicles on site and ends up on the public highway.

Deliveries to site will be scheduled and monitored by a member of Ward and Burke staff to ensure there is no congestion on the highway and a blockage on the road is not created by vehicles awaiting entry to site.

7 Management of Vehicle Movements

Prior to arriving on site, all deliveries will be pre-booked onto a management system by Ward and Burke. Upon booking, the delivery company will be provided with delivery instruction on the measures to be implemented to provide a safe and un-disruptive arrival. Delivery instructions will be issued to all supplier and contractors upon placement of any order.

The delivery instructions will include information relating to timings, routes to and from site and any health and safety considerations that must be considered by all drivers.

A logistics manager will control vehicle movements on and off site and provide a morning timetable to their team of vehicle marshals, as well as the on-site operatives in charge of loading/unloading all materials. On site, there will be an area to allow the safe turning of delivery vehicles within the delivery compound to avoid any reversing onto public highway.

8 Interface with Existing Right of Way

When the construction activities begin, there will be an element of parking bay suspensions along Meyrick Road and West Street to allow the smooth access and egress of vehicles for a period of up to 3 months.

On Meyrick Road, Ward and Burke will have a permit in place to suspend all parking along one side of the road, and on West Street, a parking suspension will be in place on both sides of the junction with Meyrick Road entrance to ensure that the swing radius will not be obstructed when turning into Meyrick Road, indicatively shown in Fig. 3.



Fig. 3 Indicative parking suspensions along access roads

Where existing Jubilee Path public right of way crosses the main entrance to site, designated signage and safe crossing points will be installed prior to works starting. As well as signage, a gate person/traffic marshall will always police the main entrance gate, so can assist in stopping traffic and ensuring the safe crossing of pedestrians in this area during construction. Signage and measures will be discussed with local authorities prior to implementation.

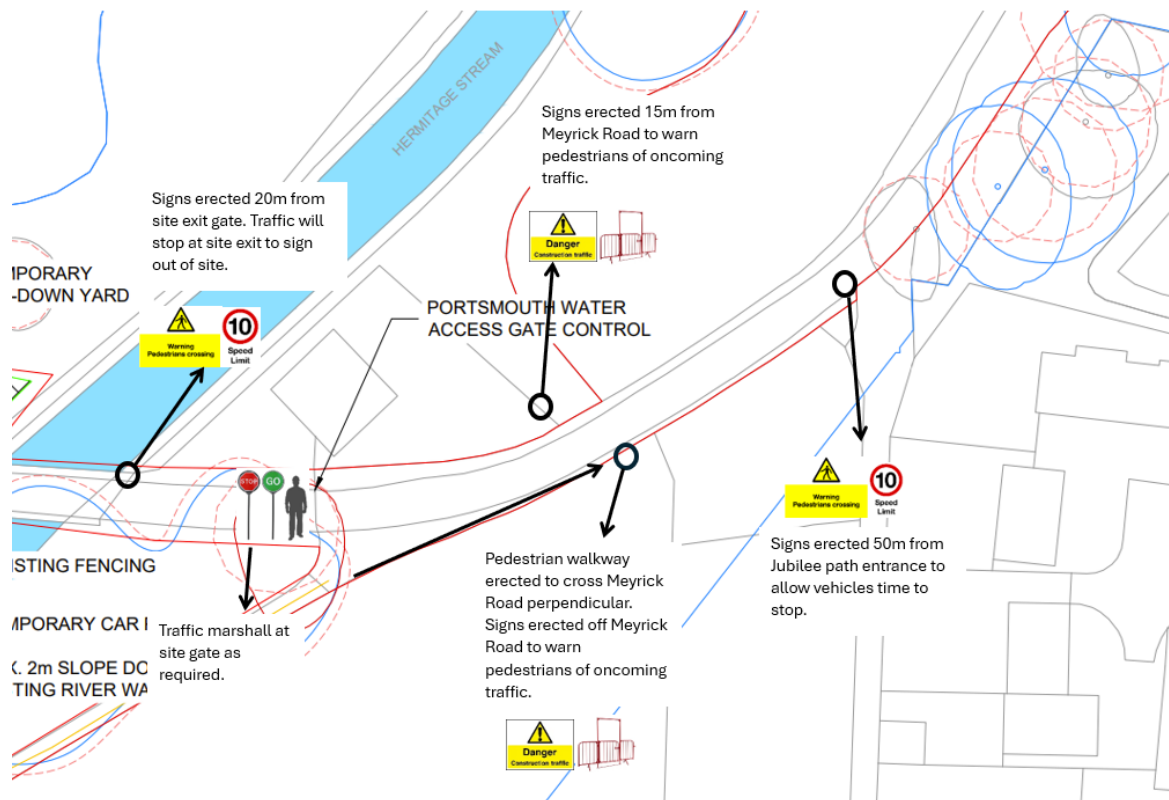


Fig. 4 Indicative traffic management strategy.

A dilapidation survey will be carried out on Meyrick Road and West Street prior to works starting.

9 Stakeholder Management and Communications

Portsmouth Water and Ward and Burke's stakeholder and communications managers will work together to ensure advance notice of our works is published to all stakeholders associated with the works.

Site management will deal with any issues that arise on a day-to-day basis and a dedicated person will be a point of contact on site. Any traffic marshals or gate person will be the first point of contact with any member of the public raising concern and will subsequently report to site management with any issues.

Any concerns reported to Ward and Burke site management will be dealt with urgently and, where necessary, reported to Portsmouth Water and recorded in meetings with any stakeholders.

10 Programme and Sequence of Works

Works to shaft 1 will begin in June 2024, and will take approximately 4 months to construct.

Upon completion of these works, the shaft will be backfilled, and landscaping will be complete.

11 Vehicle Types and Numbers

Vehicle movements on and off site will be made up of the following vehicle types:

Vehicle Type	Usage
Small van/car	Commuting
Vans under 7.5t	Materials delivery
Curtain side rigid lorry	Materials delivery
Tankers	Fuel, water, waste disposal
Tippers	Deliver aggregate / remove spoil
Rigid HGV	Materials & plant delivery
Articulated HGV	Materials & plant delivery
Mobile Crane	Site specific works
Tractor / trailer	Materials delivery

HGV movements will be restricted to 30 amount daily (15 arrivals, 15 departures).

During peak construction, we will have 30 members of staff on site at any one time. Approximately 15 of those on site will be living or staying local, so may reduce the number of staff vehicle movements.

The Construction Worker Travel Plan contains further details of how Ward and Burke plan to mitigate the impact of commuting members of staff on the local highway network, including but not limited to public transport and active travel arrangements.

12 Vehicle Timings

No construction on the pipeline site shall take place outside the hours of 08:30- 18:00 Monday to Friday, 09:00-13:00 on Saturday and no Sunday working. No works shall take place on Bank or Public Holidays.

HGV deliveries will be restricted to deliveries between 0900-1700hrs. to avoid peak times of between 0800-0900hrs & 1700-1800hrs.

In the event of a change in vehicle timings, due to unforeseen circumstances, Ward and Burke will liaise with the Local Highways Authority to plan the works.

13 Communication and Monitoring of the Plan

The contents of the traffic management plan will be briefed to all personnel on site as part of the site induction and will be refreshed over the period of the works in the pre-start daily activity briefings. The traffic management plan will also be included in sub-contracts to allow subcontractors comfort in the process.

Vehicle numbers and frequencies will be monitored to ensure that volume, frequency, and timing of arrivals coincide with the stated numbers and times. Regular auditing of deliveries will be undertaken to ensure compliance with the CTMP.

Any accidents or incidents involving vehicles entering or leaving the site will be recorded and investigated. If necessary, these will be reported to relevant authorities.

The Traffic Management Plan will be overseen and monitored by both the Logistics Manager and Travel Plan Coordinator, while implementing Ward and Burke's 'Plant and People Campaign' (appendix 2).

In the event of any changes to the document, this will be done by the relevant management and communicated to Portsmouth Water and Local Highways Authority, outlining any changes.

14 Site Arrangements

Car parking will be provided on site for 15 vehicles within the site car park, adequate for the number of staff anticipated on site. This provides parking for site staff and visitors visiting both the main site compound and the works site at shaft 1.

There will be site parking available for cyclists and motorcyclists who require to lock up their bikes during the working day in a safe space. Separate site access to be made available for entry to site for cyclists and motorcyclists, with traffic marshal monitoring vehicle movements to ensure safe access and egress.

Access onto site for vehicles will be via Meyrick Road access gate, which is currently Portsmouth Water access gate, and requires permission to acquire entry. This gate will have constant presence to allow deliveries and visitors onto site.

Hard standing surface will be provided within the compound to assist with keeping vehicles clean and negate the need for wheel washing. Where vehicles must leave the hard standing surface, wheel washing facilities will be provided to ensure that mud and debris do not get transferred onto the public highway. The public highway will be maintained daily if debris leave site or HGV cause damage to the public highway.

15 Risk Assessment

RISK RATING Likelihood (L) x Severity (S)		HAZARD SEVERITY (S)				
		1	2	3	4	5
		Negligible Negligible injury, no absence from work	Slight Minor injury requiring first aid treatment	Moderate Injury leading to a lost time accident	High Involving a single person's serious injury/death	Very High Multiple serious injuries/death
1	Very Unlikely: A freak combination of factors would be required for an incident/accident to result	LOW	LOW	LOW	LOW	LOW
2	Unlikely: A rare combination of factors would be required for an incident/accident to result	LOW	LOW	LOW	MEDIUM	MEDIUM
3	Possible: Could happen when accidental factors are present but otherwise unlikely	LOW	LOW	MEDIUM	HIGH	HIGH
4	Likely: Not certain to happen but an additional factor may result in an incident/accident	LOW	MEDIUM	HIGH	HIGH	HIGH
5	Very Likely: Almost inevitable that an incident/accident would result	LOW	MEDIUM	HIGH	HIGH	HIGH
LOW RISK (Score 1 – 6)		May be acceptable, however, review task to see if risk can be reduced further.				
MEDIUM RISK (Score 8 – 10)		Task should only proceed with appropriate consultation with specialist personnel and SHEQ team. Where possible the task should be refined to take account of the hazards involved or the risks should be reduced further prior to task commencement.				
HIGH RISK (Score 12 – 25)		Task must not proceed. It should be refined, and further control measures put in place to reduce risk. The controls should be re-assessed for adequacy prior to work commencement				

Likelihood: How often could the hazard occur? Consider the task, frequency, duration, method of work, employees involved.

Severity: How serious would the hazard's effects be if realised? Consider the type of hazard: Biological, ergonomic, physical, and chemical.

Risk = Likelihood x Severity

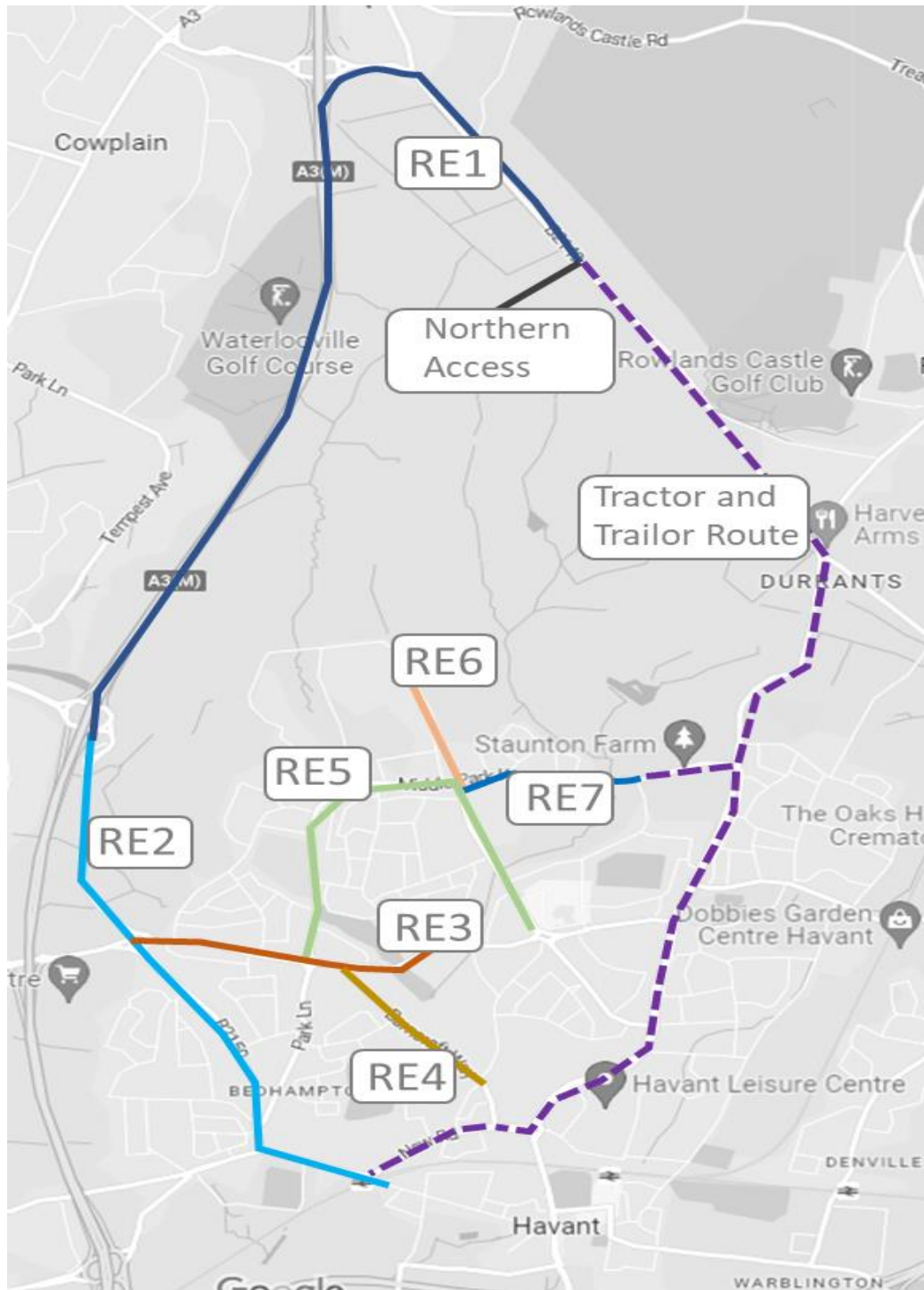
Risk Assessment				
Hazard	Risk	Risk Rating	Control Measure in addition to this in the Framework CTMP	Resultant Risk Rating
Delivery truck movements and vehicle movements on site	- Public - Operatives - Parked cars - Moving cars - Site Visitors	3 x 4 = 12	- Strict Speed Limit of 10 mph on site, as per traffic management plan. - Plant & people movement to be segregated - All deliveries to drive with care and vigilance - Site gates to remain closed and all site vehicles to sign in and out with gate person/traffic marshall.	1 x 4 = 4
Interface with public vehicles	- Public - Operatives - Parked cars - Moving cars	3 x 4 = 12	- Schedule and plan deliveries during off-peak times - Implement a call-before-arrival approach, so that the site team can ensure that access routes are clear - Deliveries to be pre-booked to avoid rush hour times - Place orders in bulk to avoid separate, small deliveries - Request that smaller deliveries are delivered on smaller vehicles - Vehicles to follow signposted routes from principal road network	1 x 4 = 4
Interface with pedestrians	Injury or harm to any pedestrian walking along the same route as site access route	4 x 3 = 12	- Warning signage to be erected and maintained along access route for clear warning to pedestrians - Segregated walkways to be established and maintained within the compound and works areas - Signed crossing points at Jubilee path for pedestrians to warn of construction traffic and activities. - Gate person/traffic marshall to manage all vehicle movements where public right of way crosses Meyrick Road.	1 x 4 = 4
Use of existing public highways	- Mud and debris carried off site to existing highway - Damage to existing highways by HGVs	4 x 3 = 12	- Wheel washing facilities to be provided on a hard surface on site for delivery drivers to take advantage of - Gate person to ensure all vehicles leave site clean and refuse exit if substantial amounts of muck is still present on any vehicle	1 x 3 = 3

			Monitor and maintain any damage that may become present to public highway	
Machinery on site	Death or injury due to machinery movement causing crushing.	4 x 3 = 12	- All machines to have necessary reversing camera and or convex mirror - Machine movements to be segregated from pedestrian - All personnel to keep to pedestrian walkways - Do not enter areas during earthmoving operations, especially controlled zones, unless machine operators in the area are aware of your presence, make operators aware of your presence - Wear high visibility clothing. - Use pedestrian walkways where available; do not walk along haul routes. - Gain operatives' eye-contact when approaching a vehicle. - Maintain hearing and only use mobiles in safe locations away from moving vehicles. - Personnel will be disciplined if they are found not to follow the rules and guidance of the site	1 x 3 = 3
Crane	- Overturning - Loads overhead collapse - Crushing or impact from load - Wind load to formwork panels	2 x 4 = 8	- Only to be set up and used with an approved crane pad TW design - Set up crane to avoid over-sailing - Appoint banksman - Exclusion zones to be in place - No lifting in wind above 13m/s, or as manufacturers recommendations - A crane lift plan is to be completed by an appointed person - Tag lines to be used - A whistle is to be blown by the banksman to alert of a lift when there are personnel in the vicinity of the lift	1 x 4 = 4

Site Traffic	Congestion, vehicles have a collision as they reach required zone.	3 x 3 = 9	Ensure that a banksman is always in place to direct trucks moving in and out of site	1 x 3 = 3
RISK ASSESSMENT HOLD POINT Review likely hazards Review all mitigations in place and ensure the control measures are suitable and sufficient.				

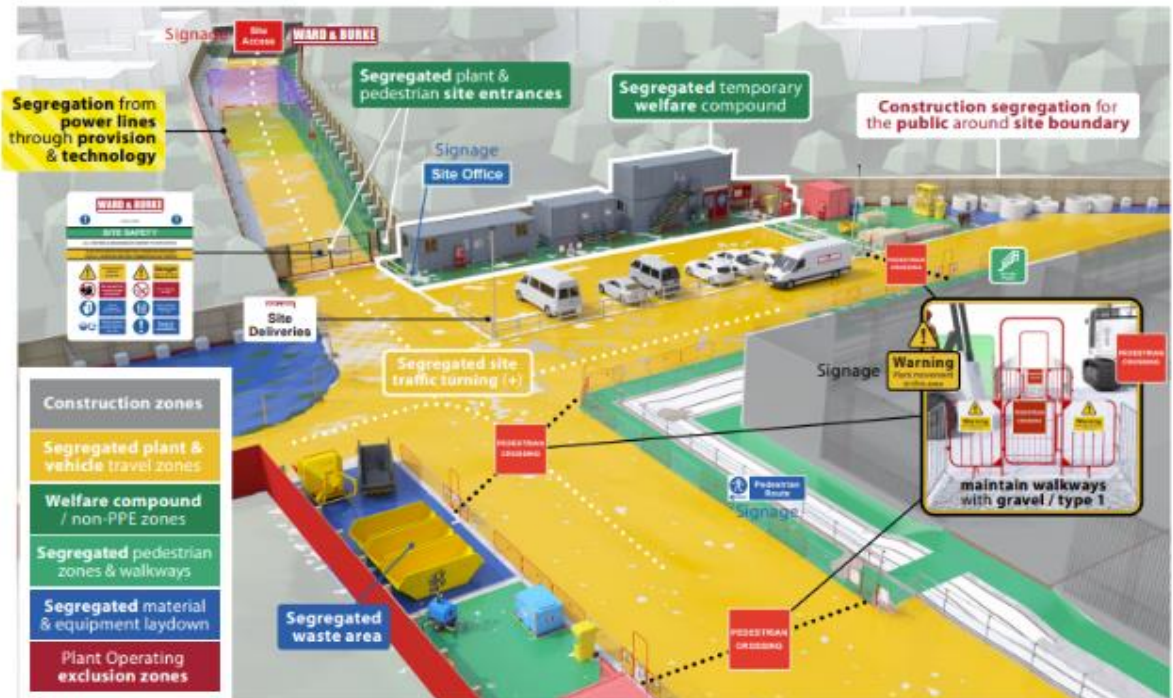
Appendix

Appendix 1 – site vehicle route RE2 showing route from A3(M) to site access via Meyrick Road.

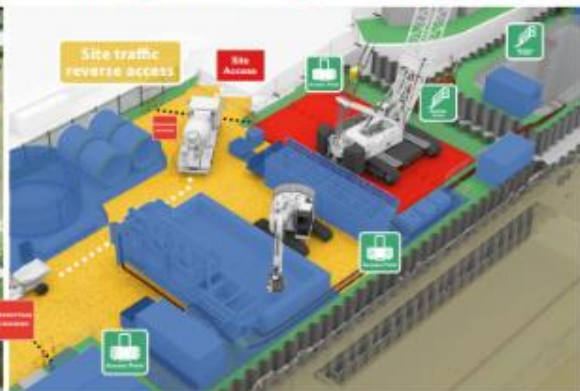


Appendix 2 – Plant and People Campaign

PLANT & PEOPLE - Avoid Unnecessary Human & Plant Interface



✓ PLANT, DELIVERY & PEDESTRIAN ROUTES ✓ BANKSMEN ✓ FENCING ✓ ACCESS ✓ SIGNAGE



✓ YOU MUST MAINTAIN, RE-ASSESS, & ADAPT SEGREGATED ROUTES & ZONES CONTINUALLY



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Appendix 3 – Main Pipeline Route

