Llywodraeth Cymru
Welsh Government

TRAFNIDIAETH CYMRU
TRANSPORT FOR WALES

Code of Construction Practice
Part 1

Issue Date 25th September 2017

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TRAFNIDIAETH CYMRU
TRANSPORT FOR WALES

Contents

1.	PREFACE	2
2.	RAILWAYS	5
3.	ROADS, FOOTWAYS AND CYCLEWAYS	6
4.	PROTECTION OF THE WATER ENVIRONMENT	11
5.	HOURS OF WORKING	13
6.	NOISE	14
7.	VIBRATION	16
8.	DUST AND AIR POLLUTION	17
9.	DISPOSAL OF WASTE AND CONTAMINATED MATERIALS	18
10.	ECOLOGY	20
11.	HISTORIC ENVIRONMENT	22
12.	SITE BOUNDARIES/HOARDINGS/TEMPORARY LIVING ACCOMMODATION	23
13.	SITE ACTIVITIES	24
14.	SAFETY	26
15.	LIGHTING	27
16.	PROTECTION OF EXISTING INSTALLATIONS	27
17.	LIAISON WITH THE LOCAL AUTHORITIES AND THE PUBLIC	28
18.	AGRICULTURE	31
19.	GROUND SETTLEMENT	31

DRAFT

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TRAFNIDIAETH CYMRU
TRANSPORT FOR WALES

APPENDIX A - SCHEDULE OF PUBLIC AUTHORITIES 32

APPENDIX B - RELEVANT BRITISH STANDARDS AND GUIDELINES 34

DRAFT

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1. Preface

General

1.1 The planned procurement of the next Wales & Borders Rail Service will include the development of Cardiff Capital Regional Metro (South Wales Metro) Phase 2 with a focus on the Core Valleys Lines. This consists of the lines from Cardiff Queen Street to:

a) Cardiff Bay

b) Coryton

c) Treherbert

d) Aberdare

e) Merthyr Tydfil

f) Rhymney

g) Cardiff Central

1.2 This document is the Code of Construction Practice ("CoCP") Part 1. It is referred to in each of the Local Authority Agreements. Its purpose is to set down a series of measures to minimise the impacts of Construction on the environment and stakeholders. It defines minimum standards of Construction practice acceptable to TfW and the Local Authorities, which is to be adhered to by all nominated Contractors. The CoCP applies equally to Works within the rail corridor, public highway, off the highway and Site compounds unless the context dictates otherwise.

1.3 The Contractor is to prepare a Site specific document for each and every Site that is to be used to construct the Works, whether such Sites are compounds (where the Contractor has his Site offices, plant and materials storage etc.), or those areas where the temporary and permanent Works are to be constructed. These Site specific documents are to show how the Contractor intends to comply with CoCP Part 1 at each such Site. This set of documents will constitute the CoCP Part 2.

1.4 The CoCP addresses the Contractor's general obligation in so far as they affect the environment, amenity and safety of local residents, businesses, the general public and the surroundings in the vicinity of the proposed Works and associated worksites. It does not attempt to address the Contractor's responsibility to those working on or visiting the Site of Construction activities. These are regulated through statutory controls. Notwithstanding any reference to such controls in this document, the Contractor is at all times to comply with relevant legislation.

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1.5 The Contractor will ensure that the requirements of the CoCP are adopted by all parties involved in construction work, including contractors, sub-contractors and suppliers.

1.6 The requirements in CoCP Part 1 may be varied by agreement with, and are subject to the requirements of, the relevant Highway Authority, Network Rail and Transport for Wales.

Definitions and Abbreviations

1.7 In this Code the following terms are to have the following definition.

(A-weighted)	The noise level with a frequency characteristic approximating to that of the human ear.
BPM	Best Practicable Means.
CADW	Welsh Government historic environmental service.
CoCP	This Code, including a general section Part 1 and a series of Site specific sections Part 2.
Consents	The approval for the Works.
Consents Plans	The plans referred to in the approval for the Works.
Construction	All Site related activities including but not restricted to Site investigations, Site preparation, demolition, materials delivery, spoil and waste materials removal and disposal associated with the Works.
Contract	The contract between WG/TfW and the Contractor.
Contractor	The body, or bodies, awarded the contract(s) by WG/TfW to design and construct any part of the South Wales Metro.
CVL	Core Valley Lines.
dB(A)	Decibel units (A-weighted).
ES	Environmental Statement.
HGV	Heavy Goods Vehicle.
Highway Authority	As defined in the Highways Act 1980.
HSE	Health & Safety Executive
IDP	Infrastructure Development Partner.

DRAFT

In good Time	Specific timescales to be agreed with the Local Authority.
LA	Local Authority
L_{Aeq}	The equivalent continuous sound level (A-weighted). This is defined as the level of notional steady sound which, at a location and over a defined period of time, would have the same A-weighted acoustic energy as the fluctuating noise.
L_{Amax}	The peak or maximum A-weighted noise level over a given period of time.
Limits of Deviation	The extent of the area included within the Consents over which powers to construct the Works are granted by the Consents.
LLFA	Lead Local Flood Authority.
ODP	Operator and Development Partner.
Section 61 Application	An application for a Section 61 Consent.
Section 61 Consent	Consent granted by the Local Authority under the Control of Pollution Act 1974 Section 61.
Site	Land used and/or occupied by the Contractor for the purposes of executing the Works.
Site boundary	Boundary of the Consented works.
SSSI	Site of Special Scientific Interest.
Statutory Undertakers	Utility companies having a statutory right or duty to install, inspect, maintain, repair, or replace apparatus in or under the street in primary legislation.
TfW	Transport for Wales.
Traffic Manager	The Traffic Manager of Cardiff Council, Caerphilly County Borough Council, Merthyr Tydfil County Borough Council and Rhondda Cynon Taff County Borough Council.
Traffic Signs Regulations	The Traffic Signs Regulations and General Directions 2016 or as subsequently amended.
WG	Welsh Government.
WSI	Written Scheme of Investigation

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1.8 The Works authorised by the Consents. All temporary hoardings, construction site signage and any literature (e.g. newsletters) shall comply with the TfW Branding Guidelines.

1.9 In order to maintain stated standards in the field of environmental management tools and systems, the Contractor is to comply with the Contractor's Environmental Management System, which preferably will be an Eco-Management and Audit Scheme (EMAS), or an ISO 14001 accredited scheme.

1.10 Where there is a conflict or variance between standards, the order of precedence noted below will prevail unless otherwise instructed by the WG/TfW:

a) All Statutory and Regulatory related documents (Acts and Statutory Instruments, including as New Road Street Work Act 1991 and the Traffic Management Act 2004).
b) Building Regulations.
c) Highway Authority Standards (public highway infrastructure only).
d) Network Rail Standards (network rail infrastructure only).
e) British Standards (BS and BS EN).
f) European Standards (EN).
g) Industry Standards.

2. Railways

2.1 For work within the railway boundary, TfW and/or Network Rail standards will apply. The Network Rail standards contain measures to minimise the impacts of construction on the environment, these are:

Reference	Issue	Title	Description
NR/CS/ENV/001	1	Environmental Management Standard	The process which Network Rail uses to manage the environmental risks.
NR/SP/ENV/001	1	Corporate Environmental Manual	Sets out the environmental management standard for Network Rail Functions.
RT/D/P/003	2	Noise and Vibration Complaints	Procedure for how complaints arising from noise and vibration and common law nuisance should be dealt with.

DRAFT

Reference	Issue	Title	Description
RT/LS/P/007	2	Project Management and the Environment	The process that shall be followed to ensure that environmental issues are properly managed. Appendices A, B and C to be completed as part of the CoCP part 2 submission. Appendices D, E and F provide an outline structure for the Environmental Management Plan, an Outline of Emergency Plan and an Environmental Tracker respectively.
NR/L2/ENV/015	6	Contract Requirements Environment	Requirements to demonstrate compliance with Network Rail Sustainability Policy.
NR/GN/ENV/004	1	Waste Management Manual	A toolkit to help ensure compliance with waste legislation and outline of best practice for waste management.
RT/LS/G/00022	2	Construction Noise Mitigation Through Section 61 Consent Process.	An overview of how the risks from construction noise can be mitigated by obtaining consent under Section 61 of the Control of Pollution Act, 1974.

Note: Network Rail standards will be replaced with equivalent TfW standards for CVL, once the transfer powers and relevant assets has occurred.

3. Roads, Footways and Cycleways

Permanent and Temporary Restrictions, Closures and Diversions Affecting Vehicles and Pedestrians

3.1 The Contractor must note the provisions of the New Roads and Street Works Act 1991 as amended (Wales) 2004 and Traffic Management Act 2004 as amended (Wales) 2009. The Contractor must make early contact with the

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Local Authority's Traffic Manager to enable the proactive management of road networks.

3.2 In order to construct the South Wales Metro, it will be necessary to implement traffic restrictions, closures and diversions, including carriageways, footways, cycleways and other rights of way during the Construction period either on a temporary or permanent basis.

3.3 Details of the locations of the proposed permanent closures and diversions are shown on the Consents Plans. It is the Contractor's responsibility to finalise the arrangements for these closures and diversions with the Local Authorities in accordance with the requirements of the Consents. The Contractor's proposals must be agreed, in advance of any works on the highway, with the Traffic Manager. These proposals must include all necessary changes to traffic signs and traffic signal equipment to accord with the revised permanent highway and traffic management arrangements.

3.4 The Contractor is to ensure, where these are required, that alternative arrangements are put in place where Construction Works interfere with or affect the normal operation of a street including carriageway and/or footway and/or cycleway. Such arrangements are to be agreed in writing with the Local Authority and include reasonable measures to minimise disruption in the street. This is to take account of the requirements for winter maintenance.

3.5 The Contractor is to keep open all public and private roads and footways that cross the Site, unless their permanent or temporary diversion or closure is specified in the Consents and agreed with the Traffic Manager.

3.6 Wherever the South Wales Metro Works interfere with existing public or private roads or other ways over which there is a public or private right of way for any traffic, the Contractor is to construct diversion ways except where the Consents provides for those roads or other ways to be permanently stopped up without provision of a substitute. The standard of Construction and lighting is to be suitable in all respects for the class or classes of traffic using the existing ways, and the widths of the diversions are not to be less than that of the existing way unless agreed with the Local Authority and/or owner of the private road in writing. The Contractor is to agree diversions and closures with the Local Authority in writing with a view to minimising disruption during Construction.

3.7 Diversion ways are to be constructed in advance of any interference with the existing ways and are to be maintained to provide adequately for the traffic flows. This will include arrangements for amendments to existing bus routes/stops/shelters (to be agreed in advance with the LA and the bus companies), monitoring traffic flows, maintaining temporary traffic management measures and proactively managing traffic to ensure the safe and efficient movement of traffic in the wider highway network.

3.8 The Contractor is to be responsible for supplying, erecting, maintaining for the requisite periods and subsequent dismantling all statutory and public

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information notices. The nature and location of such notices is to comply with all statutory requirements and the reasonable requirements of the relevant Local Authority.

3.9 Traffic Sensitive Routes. All traffic sensitive routes will be determined by the Local authorities, prior to any construction works being undertaken across the Core Valley Lines.

3.10 For any works resulting in a change of layout to any public or private right of way which may raise safety concerns, there shall be an independent road safety audit.

3.11 Following the installation and operation of significant static traffic temporary traffic management or the significant alteration of an existing layout where established traffic patterns are being amended, a stage 3 road safety audit, in accordance with the Design Manual for Roads and Bridges Volume 5 Part 2 HD19/03, shall be undertaken.

3.12 Rail Replacement Services. The Contractors will liaise with TfW in advance of any construction works being undertaken, if replacement bus services are required while upgrades to the rail network are undertaken.

Pedestrian and Cycle Routes

3.13 All temporary and diverted footways which replace footways that are currently accessible to wheelchairs and pushchairs are to continue to be useable by such users. All temporary and diverted footways are to provide direct links wherever possible and avoid long detours.

3.14 Clear signage in accordance with the Traffic Signs Regulations is to be provided at all times for all diverted pedestrian and cycle routes.

Maintenance and Repair of the Highway

3.15 The Contractor is to take every precaution to prevent its operations, whether by carting or otherwise, from damaging the roads and footways in the vicinity of the Construction Works. The Contractor is to carry out all maintenance Works as are necessary to maintain the roads and footways included in the Works in a serviceable condition as approved and agreed in writing by the Local Authority.

3.16 All temporary footways and ramps must be surfaced in non-slip material and kept free of mud and debris.

3.17 The Contractor is to so order the Construction of the Works as will afford access for the Local Authority to maintain its highway assets.

Lorry Movements

3.18 The Contractor, its Principal Contractor and contractors and suppliers moving large and/or heavy loads, Construction plant, materials and spoil (including vehicles used for carrying such when running empty) are to minimise the use

DRAFT

of public highways as far as is reasonably practicable, when waiting to enter Construction Sites.

3.19 Access routes for HGVs are to be agreed in writing with the Local Authority in advance.

3.20 Vehicles arriving or leaving the Site are to do so during normal working hours as specified in Section 4 of the CoCP unless otherwise agreed in writing with the Local Authority.

3.21 The Contractor is to take all reasonable measures to ensure that delivery vehicles do not park on the highways prior to entering the Site. In addition, the Contractor is to take all reasonable measures to ensure that vehicles used by the Principal Contractor and contractors' staff for travelling to and from the Works are not parked on the highway.

3.22 The Contractor when entering into any sub-contract for the execution of any part of the Works or for the supply or transport of heavy loads, Construction plant, materials or spoil in relation to the Works is to incorporate in any such sub-contract provisions requiring the Principal Contractor and contractors to comply with the requirements of this section.

Mud and Debris

3.23 The Contractor is to take strict measures to minimise the spillage of mud and debris on roads arising from excavation Works through:

a) The provision of easily cleaned hard standing for vehicles entering, parking and leaving the Site;

b) The provision of wheel washing facilities including mechanical wheel spinners;

c) The use of mechanical road sweepers, surface flushing apparatus, gully cleaners and other such equipment to clean the hard standing and to remove any mud or debris deposited by Site vehicles on roads, footpaths, gullies or drains in the vicinity of the Site. The road sweepers and other equipment are to be readily available at all times throughout the Construction Works;

d) The complete sheeting of the sides and tops of all vehicles carrying spoil or debris;

e) Ensuring that vehicles are loaded in such a manner as to prevent spoil falling off during transit, are not overloaded; and

f) Compliance with the requirements regarding dust outlined in Section 8 of this CoCP.

Traffic Safety and Control and Site Access

3.24 All Site accesses to and from the highway are to be of sufficient width to provide safe access and egress, whether such accesses are accommodating two-way or one way in and one way out, traffic arrangements.

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3.25 The Contractor is to provide, erect and maintain such traffic signs, road markings, new signage, lamps, barriers, traffic control signals and such other measures as may be necessitated by the Construction Works in accordance with the requirements of the Local Authority. Compliance with this clause is not to relieve the Contractor of any of its other obligations and liabilities under current legislation and Chapter 8 of the Traffic Signs Manual.

3.26 The Contractor is not to commence any work that affects the public highway until all traffic safety measures necessitated by the work and as agreed with the Traffic Manager are fully operational.

3.27 The traffic signs, road markings, new signage, lamps, barriers and traffic control signals and other measures are to be in accordance with the requirements of the Traffic Signs Regulations. They are to include appropriate advance warning and give way signage as appropriate for Works traffic.

3.28 The Contractor is to keep clean and legible at all times traffic signs, road markings, new signage, lamps, barriers and traffic control signals and is to position, reposition, cover or remove them as required by the progress of the Works and to the approval of the Local Authority.

Access Across Site and to Frontages

3.29 The Contractor is to take all reasonable precautions in carrying out the works to prevent or reduce any disturbance or inconvenience to the owners, tenants, or occupiers of adjacent properties, and to the general public.

3.30 The Contractor is to provide and maintain any guard rails, fences, gates, lights, bridges, steps, handrails, etc., needed for alternative access and they are to be of such size, strength and Construction as will be adequate for their purpose.

3.31 The Contractor is to render every reasonable assistance to occupiers of premises affected by the Construction Works to enable them to get materials or goods into or out of their premises and is to liaise with them to establish their particular requirements in this respect. The key to this is timely consultation with frontagers, generally discussed at Section 17 of this document and the separate Communications Plan to be developed by the Contractor for agreement with TfW.

Travel Plan

3.32 The Contractor will produce a travel plan for the project. This will cover how those working on the project will use sustainable modes of transport to commute to work and travel to work sites, and how their impact on the environment, including noise, will be minimised.

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4. Protection of the Water Environment

Wastewater and Groundwater

4.1 The Contractor is to develop and implement a plan to provide drainage of construction sites along the route of the South Wales Metro. The plan is to include measures to ensure that surface water run-off is contained, managed appropriately and in accordance with local requirements.

4.2 Discharge of washout from temporary construction laydown and storage areas into local watercourses is to be prevented. The Contractor is to take full account of Natural Resources Wales Diffuse Strategic Action Plan 2013, Control of Pollution (Oil Storage) (Wales) Regulations 2016 and the Environment Agency's guidance on groundwater protection.

4.3 Wastewater and site discharges are only permitted where effluent quality and discharge location is acceptable to the relevant authority, be it Natural Resources Wales or relevant sewerage authority as appropriate.

4.4 Dŵr Cymru/Welsh Water should be contacted for both water supply and sewerage disposal and any permissions.

4.5 Prior to any excavation below the water table requiring de-watering, the Contractor is to inform Natural Resources Wales of the works to be constructed. Details of the works, de-watering and disposal measures are to be agreed with Natural Resources Wales in accordance with the Water Resources Act 1991, as modified by the Environment Act 1995. Any permits required under the Environmental Permitting (England & Wales) Regulations 2016 to discharge water will be obtained by the Contractor.

4.6 The Contractor will comply with BS 6031: 2009 Code of Practice for Earthworks, regarding the general control of site drainage.

4.7 In order to prevent the pollution of surface and groundwater arising from the storage, handling and use of silt and cement, the Contractor is to ensure that the following measures are adhered to:

a) The washout from mortar and concrete mixing plant, or the cleaning of ready mixed concrete lorries must not be allowed to flow into any drain or watercourse.

b) Site roads must be regularly swept in order to prevent silt, oil or other materials from entering any drain or watercourse.

c) Wheel washes and plant washing facilities are to be securely constructed with no overflow and the effluent is to be contained for proper treatment and disposal in accordance with regulatory requirements.

4.8 Where contaminated land is identified within the site boundary, a full management plan is to be prepared by the Contractor to comply with all relevant handling and disposal legislation (including de-watering discharges from piling operations). Detailed site investigations at all sites where

DRAFT

earthworks or piling are planned are to be carried out prior to works commencing, in order that appropriate mitigation can be implemented. See Section 9 for further guidance.

4.9 The Contractor is to ensure that any water that has come into contact with contaminated materials is disposed of in accordance with the Water Resources Act 1991, Control of Pollution (Applications, Appeals and Registers) Regulations 1996 and Water Industry Act 1991 (as amended by the Water Industry Act 1999) (if disposed of to a public sewer) to the satisfaction of the Natural Resources Wales, Dŵr Cymru/Welsh Water or the Local Authority (as appropriate).

4.10 The Contractor is to apply for consents and approvals: -

a) From the LLFA for any discharge into a watercourse, river or soakaway; and

b) From Dŵr Cymru/Welsh Water for any discharge into a sewer.

4.11 Where contractors' works are proposed to impact on an ordinary watercourse, ordinary watercourse consent may be required from the Lead Local Flood Authority in the operating area. Early dialogue and pre-application discussion should be established. Any approvals may be subject to restrictions upon the timing and manner of the proposed works

4.12 The Contractor is to make provisions to ensure that oil drums and containers or other potential contaminants stored on the Site are controlled in accordance with the Control of Substances Hazardous to Health Regulations 2002, the Control of Pollution (Oil Storage) Regulations 2001 and the Groundwater Regulations 2009 are properly isolated and bunded and that no oil or other contaminants are allowed to reach watercourses, groundwater or, aquifers. Storage locations for such materials are to be positioned away from watercourses.

4.13 In the event of a pollution incident involving surface and/or groundwater, the Contractor is to inform the LLFA as appropriate immediately and take prompt action to minimise the effect. The Contractor is to develop and agree an Incident Management Plan in consultation with the LLFA.

Protection of Aquifers

4.14 The Contractor is to have due regard to underlying aquifers and adhere to the requirements of the Groundwater Regulations 2009. Guidance on groundwater protection is available from the Environment Agency. In all instances, appropriate protection of aquifers is to be undertaken, following liaison with the Natural Resources Wales regarding piling and construction techniques to be employed. Details of appropriate measures to prevent groundwater contamination (including monitoring) are to be agreed with Natural Resources Wales prior to commencement of the construction works.

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Control and Management of Foul Drainage

4.15 Foul water produced by the construction workforce is to be contained by temporary foul drainage to be installed by the contractor. All foul water is to be deposited off Site by a licensed operator, or disposed of to the public foul sewer if approval from the relevant sewerage undertaker is obtained in accordance with the Water Industry Act 1991 (as amended by the Water Industry Act 1999).

5. Hours of Working

Normal Working Hours

5.1 The normal hours of working and permissible levels of noise may vary from Site to Site depending upon the nature of the area through which the Works are being constructed. These are to be as stated in the relevant Site specific sections in Part 2 of this CoCP, and are to be agreed by the Contractor with the relevant Local Authority in writing.

5.2 Except where otherwise stated in Part 2 of this CoCP, normal working hours are to be as follows:

Monday – Friday	0700 – 1900
Saturdays	0800 – 1800
Sundays	0800 – 1800

5.3 Where work is in the vicinity of residential properties, there shall be a start-up period from 0700-0800 hours on all weekdays, 0800-0900 on weekends and a shut-down period from 1800-1900 hours Monday to Friday and 1700 to 1800 on Saturday and Sunday, when there shall be no disturbing construction-related noise audible beyond the site boundary.

5.4 These hours of work do not apply to equipment which is required to operate continuously, although thorough consideration to the types of equipment employed should be given and silent or acoustically shielded equipment given preference over other types where available.

Additional Working Hours

5.5 The majority of the planned work is on the existing railway, requiring work to and within existing stations, and laying additional track. Certain construction activities will require extended working hours for reasons of engineering practicality. In order to minimise the impact on the operation of the railway it is envisaged that this work will take place outside of the normal working hours often over consecutive nights and/or 24 hour working over extended weekends. Activities outside of normal working hours, that could give rise to a disturbance, will be kept to a reasonably practicable minimum.

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5.6 Additional or alternative working hours needed for emergency reasons are to be advised to the Local Authority at the earliest practicable opportunity.

6. Noise

Noise Mitigation on Site

6.1 The Contractor is to have a general duty to take all practicable measures to minimise disturbance from noise. Any noise limits agreed with the Local Authority must not be regarded as a licence to make noise up to the allowable limit.

6.2 The Contractor is to liaise with and consult each Local Authority with regard to permissible levels of noise and take such other steps as may be necessary to enable the South Wales Metro Works to proceed in accordance with the Contract. Where piling is proposed in the vicinity of noise sensitive receptors, including but not limited to, residential properties or hotels, and where the noisier percussive or driven piling techniques are unavoidable, the Contractor is to apply in good time under the Control of Pollution Act 1974 for a Section 61 Consent. The Section 61 Application should demonstrate that the best practicable means of controlling noise have been adopted and should also specify the system for on Site monitoring of noise levels.

6.3 Prior to the commencement of any Construction work at any work Site, the Contractor will be required to demonstrate to the Local Authority, Network Rail and TfW that it can comply with the agreed noise limits for that work Site. This is to be done on the basis of its Contractor's intended and clearly stated methods of working, types of plant to be used and noise mitigation measures.

6.4 A minimum of 1 week prior to the commencement of any construction work, occupiers of all accommodation in the vicinity shall receive notification from the Contractor detailing the work to be undertaken, the start and end times / dates and a telephone number which residents can use to contact the Contractor at any time that work is ongoing to discuss noise and any other relevant issues. Section 17 of this document generally details Public Relations and notes the need for a separate Communications Plan which is to be developed by the Contractor for agreement with TfW.

6.5 The Contractor is to allow representatives of TfW and the relevant Local Authorities to access work Sites at any time to monitor noise levels.

6.6 If the Contractor wishes to change its proposed method of working from that upon which it has demonstrated compliance with the agreed noise levels, then it must repeat the above process.

6.7 In the event that higher noise levels are necessary for certain specific activities and after the Contractor has obtained permission from the Local Authority in

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respect of such higher levels, TfW will agree to the higher noise levels authorised.

Noise Limits and Noise Mitigation at Residential Properties

6.8 During working hours, noise levels should be measured at a position equivalent to one metre from the most affected façade of any occupied dwelling or other building used for residential purposes.

6.9 The ambient noise level, LAeq from all sources when measured at a façade shall either not exceed the agreed level or not exceed by more than 3 dB the existing ambient noise level, LAeq (the total LAeq from all the noise sources in the vicinity over the specified period prior to the commencement of the Works), at the facade measured over the same period, whichever level is the greater.

6.10 Where, in spite of the mitigation measures applied and consents from the local authority, noise levels at some properties exceed the agreed values, a scheme for the installation of noise insulation or the reasonable costs thereof, or a scheme to facilitate temporary rehousing of occupants, as appropriate, will be implemented by the Contractor. The scheme will include provision for the notification of affected parties.

6.11 Noise insulation or the reasonable costs thereof will be offered by the Contractor to owners, where applied for by owners or occupiers, subject to meeting the other requirements of the proposed scheme, if either of the following apply to property lawfully occupied as a permanent dwelling.

a) Where the predicted noise level exceeds the agreed noise levels; or

b) Where the total noise (pre-construction ambient plus construction noise) is 5 dB above the existing airborne noise level for the corresponding times of day, whichever is the higher; and

c) For a period of ten or more days of working in any fifteen consecutive days or for a total of days exceeding 40 in any 6 month period.

6.12 Where these measures comprise noise insulation, this is to be implemented in accordance with the specification contained in Schedule 1 of the Noise Insulation (Railways and Other Guided Transport Systems) Regulations 1996 (as amended 1998).

Noise Control

6.13 Without prejudice to Section 5 and clauses 6.1 to 6.2 above, the Contractor is to comply with the recommendations set out in BS 5228 "Code of Practice for Noise and Vibration Control on Construction and Open Sites".

6.14 All equipment is to be operated, sited and maintained so that disturbance to people living or working in the immediate vicinity is minimised. In particular, all items of machinery powered by internal combustion engines must be

DRAFT

properly silenced and/or fitted with effective and well maintained mufflers in accordance with the manufacturer's instructions.

7. Vibration

Vibration - general

7.1 The Contractor is to have a general duty to minimise the disturbance caused by vibration from Construction activities. The Contractor is to ensure that measures are taken to:

a) protect residents and users of buildings close by from disturbance or harm; and

b) protect buildings from physical damage.

7.2 Subject to the specific requirements of the Local Authority, the following minimum requirements must be met.

7.3 To protect residents and users of buildings from disturbance and harm the Contractor is not to, as far as practicable, exceed Vibration Dose Values as specified in BS 6472:2008 "Guide to evaluation of human exposure to vibration in buildings (1 Hz to 80 Hz)" which would result in a "low probability of adverse comment".

Vibration – Percussive/Driven Piling

7.4 Where such piling is required in the vicinity of sensitive buildings or structures, the Contractor is to consult and liaise with the Local Authority and is to, in good time, submit a Section 61 Application in order to establish the maximum permissible levels of vibration. The Section 61 agreement is to also specify the system for monitoring of vibration levels where necessary. Information on the vibration level policies of the Local Authorities, where they exist, should be included for in the relevant Site Specific sections in Part 2 of the CoCP.

Vibration Control

7.5 Without prejudice to Section 5 and Clauses 7.1 to 7.2 above, the Contractor is to comply with the recommendations set out in BS 5228 "Code of Practice for Noise and Vibration Control on Construction and Open Sites".

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8. Dust and Air Pollution

Dust

8.1 The Contractor is to take all reasonable measures to keep dust to within acceptable levels during both Construction and demolition Works. Such measures are to include, but not be limited to:

a) the provision of easily-cleaned hard standing for vehicles;

b) the enclosure of loose material stockpiles at all times and damping down of dusty materials using water sprays during dry and windy weather;

c) hard surfacing of heavily-used areas is to be kept clean by wet brushing and regular water spraying;

d) control of cutting or grinding of material on Site by water suppression to cutting and grinding machines, to minimise or mitigate dust;

e) complete sheeting of sides and tops of all vehicles carrying spoil and other dusty material;

f) watering of unpaved surfaces and roads;

g) limitation of vehicle speeds on unpaved surfaces to 20kph;

h) storage of cement and other dust generating materials in silos with appropriate filters and overfill alarms or storage bags; and

i) when the contents of vehicles carrying materials which may be dusty are tipped on site, the materials shall be subject to water spray during the tipping process, where deemed necessary and agreed by the Contractor and Local Authority. However, water must not be deposited on the highway when sub-zero temperatures are anticipated.

8.2 For each of the working Sites, the Contractor is to submit to the Local Authority the proposed method, the frequency and location of monitoring. Baseline levels of dust will also be agreed prior to commencement of Construction. The Contractor is to also agree, in writing, action levels for dust pollution with the Local Authority. The Contractor is to monitor the level of dust pollution using an objective method of measurement. In the event that the action levels are exceeded, the Contractor is to implement such further reasonable measures as are necessary to bring the levels of dust below the levels agreed with the Local Authority.

Air Pollution

8.3 The Contractor is to comply with the provisions of the Environmental Protection Act 1990, Environment Act (Wales) 2016, the Clean Air Act 1993, the Pollution Prevention Control Act 1999, the Pollution Prevention Control (England and Wales) Regulations 2000, and the Health and Safety at Work Act 1974.

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8.4 The Contractor is to comply with the Control of Substances Hazardous to Health Regulations and comply with Health and Safety Executive Guidance Note EH 40 on Occupational Exposure Limits.

8.5 The Contractor is to also comply with the Control of Lead at Work Regulations 2002.

8.6 The Contractor is to take precautions to limit smoke emissions or fumes from Site plant or stored fuel. Plant is to be well maintained and measures are to be taken to ensure that it is not left running for long periods when not directly in use.

8.7 No materials, of any kind, will be burned on site. Also see Section 13.

9. Disposal of Waste and Contaminated Materials

Waste

9.1 The Contractor should note that TfW and the Local Authorities encourage sustainability and recycling of materials wherever possible, suitable and practicable. Discussion with the relevant Local Authority should be carried out as early as possible in the process with regard to recycling and identification and treatment of potentially contaminated materials.

9.2 The Contractor is to take precautions and develop a site waste management plan which will:

a) Define responsibility for waste management to a named individual;
b) Provide clear information on site waste management, including disposal routes and permitting;
c) requirements;
d) Identify, quantify and categorise the various types of waste likely to arise from the construction of the scheme;
e) Identify waste minimisation measures;
f) Identify which materials are to be segregated on site for re-use or recycling; and
g) Describe facilities for the collection of data.

9.3 The plan is also to be developed in accordance with the principles of the Reduce – Re-use – Recover (ie recycling, composting, energy production) – Disposal waste hierarchy outlined in the UK Waste Strategy, 2000. Where necessary, the plan is to outline what is required to fulfil the waste minimisation procedure, including for example, the provision of skips, designated for the collection of segregated waste materials.

9.4 The plan is to include an audit programme to be undertaken by the Contractor to demonstrate compliance with statutory requirements.

DRAFT

9.5 Waste arising from the works which is classed as acceptable fill is wherever practicable to be used in construction works.

9.6 The disposal of waste, including any surplus spoil, is to be managed so far as is reasonably practicable to contribute towards the environmental and development benefits arising from the use of surplus material and reduce any adverse environmental effects of disposal.

9.7 The Contractor is to comply with approved guidance and procedure on the identification, handling, storage, recovery and disposal of waste. The Contractor is also to comply with the measures set out in Section 3 of this CoCP concerning discharges to controlled waters and wastewater.

9.8 The Contractor shall make provision for a suitable environmental specialist to identify any Hazardous Waste as defined in the Hazardous Waste (England and Wales) Regulations 2005 so that it can be suitably managed, treated and disposed of during the works.

Contaminated Land and Materials

9.9 The Contractor is encouraged to utilise the risk based approach for identifying and remediating contaminated land put forward by the Environment Agency in their document "Contaminated Land Report 11 - Model Procedures for the Management of Contaminated Land", internet download available free of charge from www.environment-agency.gov.uk, published by Environment Agency, Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, BS32 4UD. Additional reference information is given in Appendix B.

9.10 The Contractor will appraise themselves of all background information available regarding the likely ground conditions. An initial desk study has been undertaken by TfW. Additional studies relating specifically to the Taffs Well depot are currently being commissioned as well as a geotechnical study of the Core Valley Lines. These reports will also be made available when completed.

9.11 It should be noted that TfW has obtained ground investigation information in relation to the proposed depot at Taffs Well which can be found in the general tender information. This information should be reviewed as necessary and used as the starting point for any further site investigations deemed necessary.

9.12 Any contaminated material encountered is to be dealt with in compliance with best practice, statutory guidance and Local Authority requirements and, if necessary, disposed of in accordance with the Environmental Permitting Regulations.

9.13 Appropriate precautions must be taken if materials containing asbestos are encountered. The Contractor is to comply with the Control of Asbestos at Work Regulations 2012. The Contractor is to comply with all current HSE approved guidance and codes of practice relevant to the works being undertaken.

DRAFT

9.14 If materials containing lead are encountered, the Contractor is to comply with The Control of Lead at Work Regulations 2002.

Invasive Plant Species

9.15 A programme of eradication of invasive species is to be undertaken prior to any construction works. If any invasive species are still present when construction starts, mitigation measures will include:

a) Fencing off and clearly marking affected areas.
b) All parties involved in the construction to be briefed on the presence and location of the invasive species.
c) No vehicles allowed within the fenced off area.
d) No movement of soils contaminated by the invasive species, including fragments, around or from the site.
e) A plan of eradication to be enacted, where necessary for the works.

10. Ecology

Habitats and Species

10.1 The Contractor is to comply with the provisions of the Wildlife and Countryside Act 1981 (as amended), The Conservation of habitats and Species Regulations 2010, Countryside and Rights of Way Act 2000, Chapter 5 of Planning Policy Wales 2016, Environment (Wales) Act 2016 and any other relevant nature conservation legislation.

10.2 The Contractor will obtain and comply with protected species development licenses and any assents or conditions associated with European or UK designated sites. In the absence of development licenses, the Contractor will explicitly follow the Method Statements for species which will be agreed with Natural Resources Wales and the relevant Local Authority.

10.3 The Contractor will also comply with BS 42020:2013: Biodiversity - Code of practice for planning and development, and include enhancements where appropriate.

10.4 Dust, air and noise pollution must be controlled as set out in Sections 6 and 8 above, to protect adjoining habitats.

10.5 Suitable precautions are to be taken to prevent entry of pollutants into any bodies of water, especially to the canal or river systems as set out in Section 4.

Trees

10.6 Loss of trees is to be avoided where reasonably possible. Works on or adjacent to trees are to comply with BS3998:2010 "Tree Work:

DRAFT

Recommendations" and BS 5837:2012 "Trees in Relation to Design, Demolition and Construction".

10.7 Adverse effects on all trees within the working corridor, whether statutorily protected or not are to be minimised by the adoption of suitable mitigation, including, but not limited to:

a) Selective removal of branches in accordance with the relevant British Standard;
b) Use of matting around the root to prevent excess soil compaction;
c) Use of suitable protection around the trunk to prevent any damage;
d) Hand excavation in the vicinity of roots of trees to be retained to avoid unnecessary damage to roots; and
e) Construction activity around the tree is to be controlled to minimise compaction of the ground beneath the entire canopy of the tree. No heavy materials, Site cabins or plant are to be stored or Construction traffic movements made under the canopy of the tree.

10.8 Trees are defined, for the purpose of this CoCP as trees of over 20cm girth at a height of 1.5 metres above ground level.

10.9 Any tree, outside of the railway boundary, damaged or cut down without approval or which dies as a consequence of the Construction is to be replaced by a suitably sized species and in a location to the written approval of the relevant Local Authority.

10.10 Trees within the railway boundary can only be cut back or removed with the approval of TfW. The Contractor shall submit a proposal showing which trees are to retained, cut back or removed to TfW for approval.

10.11 The following BS standards are relevant to the protection of trees:

BS 3936 - 1:1992: Nursery stock. Specification for trees and shrubs

BS 3998:2010 – Recommendations for tree work

BS 4043:1989 - Recommendations for transplanting root-balled trees

BS 4428:1989 - Code of practice for general landscape operations (excluding hard surfaces)

BS 5837:2012 – Guide for trees in relation to Construction

DRAFT

11. Historic Environment

11.1 All works will be managed in accordance with accepted Chartered industry practice and guidance, taking account of the relevant sections of the Historic Environment (Wales) Act 2016, Planning Policy Wales (PPW; 2016), Technical Advice Note 24, along with local development plans.

Archaeology Written Scheme of Investigations

11.2 A range of cultural heritage mitigation options will be outlined in the ES. A project wide generic written scheme of investigation (WSI) will be prepared in advance of site preparation and construction, in consultation with CADW and the local authority. This document will detail the generic principles, standards, methods and techniques to be employed on the project for all cultural heritage works.

11.3 A site specific WSI will be developed for each identified archaeological area and other specific cultural heritage works, to be prepared and submitted by the Contractor for the approval of the relevant Local Authority as part of the Planning Direction.

Unexpected Discoveries

11.4 Should cultural heritage assets of potential national significance be unexpectedly revealed during construction, a procedure will be agreed with CADW and the local planning authorities which may include appropriate mitigation measures. Appropriate fencing and hoarding will be provided as necessary to protect sites of archaeological or cultural heritage interest within or adjacent to the construction site, including unknown sites discovered during construction.

11.5 Any archaeological works carried out are to be performed by a suitably qualified body/person who are registered with the Chartered Institute for Archaeologists.

Built Heritage

11.6 The Contractor is to comply with any listed building consent granted in parallel with the approval of the Consents and the requirements of the Planning (Listed Buildings and Conservation Area) Act 1990.

11.7 Risk assessments, appropriate structural or condition surveys and vibration monitoring will be undertaken at sites with built heritage interest within the scheme area, prior to, during and following construction works. The risk assessments will include, but not be limited to, specific buildings identified in the Environmental Statement.

11.8 Suitable measures, to be developed in consultation with CADW and relevant local authorities, will include implementation of controls at each site to avoid

DRAFT

damage to structures of historic importance or interest from the movement of construction vehicles or other construction activities.

Human remains

11.9 Should human remains be located during construction either during archaeological works or as part of construction activity the principal contractors will comply with all relevant legislative and project specific requirements.

Treasure Act

11.10 Should during the course of construction artefacts be located that are deemed by their material content or context to be treasure, as defined by the Treasure Act 1996, then all necessary measures to comply with the requirements of the Act and any project specific requirements will be implemented.

Mine Workings

11.11 The Contractor is to comply with the Local Authority, NRW and Coal Authority requirements for dealing with any mine workings found. Appropriate mitigation measures need to take account of the impact on ground water, gas migration and ground movement.

12. Site Boundaries/Hoardings/Temporary Living Accommodation

Fencing and Hoardings

12.1 The Contractor is to agree in writing with the Local Authority in advance a scheme of temporary boundary treatment during site clearance, demolition and construction.

12.2 The acceptable forms of Site boundary may include;

a) Post and chain link/weldmesh for minimum security;

b) A 2.4m minimum height plywood fenced timber framed, painted boundary hoarding, of a surface density of not less than 6Kg/m2 for normal security and noise limitation; or

c) Other designs where a particular appearance or acoustic rating is needed.

12.3 Construction fencings or hoardings that cause poorly lit walkways are to be fitted with bulkhead lights wherever reasonably practicable. See Section 15 for lighting requirements.

12.4 Gates in the fencing or hoarding are, as far as is practicable, to be positioned and constructed to minimise the noise transmitted to nearby noise sensitive buildings from the Site direct or from plant entering or leaving the Site.

DRAFT

12.5 There is to be provided at each enclosed work Site an information board detailing information on the Site programme and estimated duration of the Works, together with telephone contacts (including an emergency telephone number) for use by members of the public who wish to lodge complaints or comments.

12.6 All temporary hoardings, construction site signage and any literature (e.g newsletters) shall comply with the Welsh Language Act[1] and in accordance with TfW Branding Guidelines.

Security

12.7 Adequate security is to be exercised by the Contractor to prevent unauthorised access to Site areas off the highway and gates are to be closed and locked when not in use. Implications for the security of adjacent frontages must be considered.

12.8 Security cameras, where used, are not to be directly pointed at non-Construction areas, unless reasonably required to do so for security purposes. In any case the provisions of the Data Protection Act should be complied with.

Access for Fire Appliances

12.9 South Wales Fire and Rescue Service is to be consulted on the layout and provision of Site access and their reasonable requirements are to be incorporated into Site access arrangements.

Temporary Living Accommodation

12.10 Temporary living accommodation to comply with the requirements of the relevant Local Authority.

Information Boards

12.11 Location of information boards to be agreed with TfW and the LA. They will include: scheme name and logo, the specific works, TfW contact details, duration of the works, Contractor and contact details.

13. Site Activities

Good Housekeeping

13.1 The Contractor is to follow a "good housekeeping" policy at all times. This is to include, but not necessarily be limited to, the following requirements:

a) Open fires are to be prohibited at all times;

b) Rubbish is to be removed at frequent intervals and the Site kept clean and tidy;

[1] http://gov.wales/about/welshlanguagestandards/?lang=en

DRAFT

c) Hoardings are to be frequently inspected, repaired and re-painted as necessary;

d) Adequate toilet facilities are to be provided for all Site staff and kept clean;

e) The wheel washing facilities are to be brushed clean frequently.

13.2 All lorries entering and exiting the Site are to do so in a forward direction wherever possible. Where reversing is essential, it is to be carried out under the supervision of a banksman. Entry/exit conditions are to be subject to prior discussion with the Local Authority. All loading and unloading of vehicles is to take place off the public highway wherever practicable.

Site Clearance

13.3 The Contractor is to clear up all working areas both within the Site and accesses as work proceeds and when no longer required for the carrying out the Works.

13.4 All surplus soil and materials, temporary roads, hard standing, plant, sheds, offices and temporary hoarding/fencing are to be removed, post holes filled and the surface of the ground restored as near as practicable to its original condition.

13.5 Vegetation clearance shall be undertaken outside of the bird nesting season and surveys undertaken by an appropriately qualified ecologist to check for the presence of active nests. Where active nests are identified, work in the vicinity shall not proceed until the young birds have fledged.

Pest Control

13.6 The Contractor is to ensure that risk of infestation by pests or vermin is minimised by adequate arrangements for the disposal of food waste or other waste material attractive to pests. If infestation occurs action is to be taken as required by the relevant Local Authority Environmental Health Officer.

Use of Existing Structures

13.7 The Contractor is not to locate stockpiles for materials, stores, plant or temporary Works upon or adjacent to existing structures such as bridges, viaducts, towpaths, walls and embankments in such a way as to damage these structures.

DRAFT

14. Safety

Emergency Contacts and Procedures

14.1 The Contractor is to prepare and maintain an Emergency Contacts Set of Procedures for each work Site which is to be displayed prominently at each Site.

14.2 Copies of the procedures are to be issued to the Local Authorities, Fire, Police and Ambulance Services and any other statutory body if appropriate. The procedures should detail all emergency contact telephone phone numbers for the Local Authorities, Fire, Police and Ambulance Services and other statutory bodies identified.

Health and Safety at Work Act 1974

14.3 All Sites and activities are to comply with the Act and associated regulations including the Construction (Health, Safety and Welfare) Regulations 1996 and the Construction (Design and Management) Regulations 2015 (as amended).

Crane Arcs

14.4 Cranes arcs are to be confined within the Site boundaries if practicable to do so. Any arcs that might affect neighboring properties, including Network Rail, are to only do so with the owner's permission, and with the written permission of the Local Authority if affecting any public highway. Any permission required is to be obtained prior to erection and operation of the crane. In all cases a suitably trained banksman will be required.

Unexploded Ordnance

14.5 An emergency response procedure is to be prepared implemented for scenario where undisturbed ordnance is discovered. The procedure is include informing the Police, the British transport Police and the Local Authority. Workers are to be made aware of any such presence whilst undertaking work at the Site.

Health and Safety File (CDM Regulations 2015)

14.6 A pre-tender health and safety file can be found in the general tender documentation. The Contractor should make suitable provisions to retain and update the health and safety file during the term of the Contract. The Contractor will be obliged to offer up information contained within the health and safety file on the request of the Local Authorities, TfW, Network Rail or their agents in the case where future planned construction works might impact on existing rail infrastructure. Any changes should be added to the file by the organisation carrying out the change and the Contractor/TfW informed accordingly of said change. At the end of the Contract period the Contractor will pass the up to date health and safety file to TfW for future safe keeping.

DRAFT

14.7 Handover and Closure. The contractor is to ensure that a comprehensive project completion procedure is undertaken, which will include collaborative handover and closure of each project. A pre-handover panel will convene, , which will identify any outstanding works that require rectifying in advance to the handover panel. This will ensure that the delivered works are in accordance with the contract data, the Works Information or Local Authority requirements. Both the pre-handover and handover panels will be arranged by the Contractor and will include key project stakeholders; the Contractor (IDP / ODP)), TfW, Local Authority, relevant Statutory Undertaker representatives'.

15. Lighting

15.1 Lighting to Site boundaries and signs is to be provided with minimum luminosity sufficient for the safety of passing public, including disabled people. Precautions are to be taken to avoid:

- Shadows being cast on surrounding footpaths and roads; and
- Stark contrasts.

15.2 Site lighting is to be positioned and directed so as to minimise annoyance to residents and businesses and to prevent distraction or confusion to passing motorists.

15.3 Lighting shall have no visual intrusion or adverse effect on sensitive ecology.

15.4 Lighting to be designed in accordance with BS5489, Code of Practice for the Design of Road Lighting.

16. Protection of Existing Installations

Information

16.1 The Contractor is required to make his own investigations and to take all appropriate action concerning existing foundations, buildings, structures, walls, roadways, railways, pipes, sewers, cables and other services, apparatus, and installations.

16.2 The Contractor should consult with each Local Authority and Network Rail in advance to establish the status of any sensitive structures affected by the Works by reference to the relevant register kept by the Local Authority and Network Rail.

Safeguarding

DRAFT

16.3 The Contractor is to properly safeguard all foundations, buildings, structures, walls, roadways, railways, pipes, sewers, cables and other services, apparatus and installations from harm or deterioration during the Construction period and take all measures required for their support and protection during the Contract period.

Schedule of Public Authorities & Statutory Undertakers

16.4 A Schedule of Public Authorities & Statutory Undertakers is given in Appendix A for information only. Whilst the information is believed to be current at the time of writing, it is the responsibility of the Contractor to correctly identify and contact all relevant Public Authorities & Statutory Undertakers.

17. Liaison with the Local Authorities and the Public

Liaison Manager

17.1 The Contractor will appoint a liaison manager to manage public relations, public information issues and press relations matters. The liaison manager will be responsible for jointly managing communications to these audiences in partnership with TfW and with the agreement of the Highway Authority Traffic Manager and Network Rail.

Public Relations

17.2 The Contractor, through the liaison manager, is to establish a communications plan to be agreed with TfW, Head of Communications and the Highway Authority Traffic Manager. TfW, in consultation with the Highway Authority Traffic Manager, will clear all media announcements by the Contractor prior to issuing.

17.3 The Contractor is expected to be considerate of those directly affected by the Works and will provide timely information of the Works in advance by whichever media is deemed suitable to minimise the effects of the disturbance and allow others to make alternative arrangements if necessary. The ways in which this information is disseminated should be captured and agreed in the communications plan.

17.4 The liaison manager will establish flexible procedures, through the communications plan, for giving advance notification of, and information concerning, all main Site activities relating to this Code to the Local Authorities, the Police, the Fire Brigade, other interested bodies and the Public. Such information is to include, but not be limited to, any alterations or changes to working hours and locations that have been agreed between the Contractor, the Local Authority and affected frontagers. Information must be supplied in good time to allow affected parties to make alternative arrangements e.g. bus companies to register alternative routes. Further

DRAFT

guidance on the anticipated communications plan can be found in the general tender documents.

Public Complaints

17.5 The Contractor through the liaison manager is to introduce a system for the recording of all complaints which are to be collated and responded to by them within reasonable timescales and copies made available to TfW and the Local Authority. The Contractor through the liaison manager is to be proactive in reducing complaints.

Construction Staff

17.6 The Contractor is to ensure that all Site Construction staff are easily identifiable to the public by use of identity cards or an equally effective system.

Interaction with the Local community

17.7 The Contractor, through the Liaison Manager must recognises the importance of effective community liaison when delivering the requirements of this CoCP. To establish excellent relations with its neighbors the Contractor will ensure that there is an adequately resourced nominated point of contact to interact and establish effective community relations. The Liaison Manager shall be a single point of contact for local residents, businesses, the media and anyone else affected by the construction works. The Contractors Liaison Manager will be committed to managing external communications with the public, local residents, local councils and the media and shall also be a focal point for local councils to communicate with Sub-Consultants / Contractors.

17.8 The Liaison Manager also has a key responsibility in building community relationships and integrating the construction team with local communities and stakeholders, during infrastructure improvements. The Liaison Manager shall work with the project team to achieve a positive relationships with local communities, by using various inter-community approaches. These should include:

a) **Information Centres and Website**. Information centres and dedicated construction websites are to be made available to all interested third parties and the general public, with Information Centres available during working hours. These shall provide focal points for up-to-date information to be relayed and made available relating to how the work is progressing and areas affected by construction work. The information shall be updated regularly (preferably on a weekly basis) to ensure the information displayed is relevant and current.

b) **Regular newsletters**. The Contractor shall publish regular newsletters detailing the forthcoming work and outlining, using graphics and diagrams,

DRAFT

any alterations to roads and footpaths, and any effects the work may have on the general public and nearby businesses. The frequency of this newsletter shall be determined by the works programme to ensure that it is responsive to the needs of local communities as the work progresses. Newsletters shall be published on the website and should also be sent to the appropriate community councils, councils, emergency services and local and national newspaper. Copies of the newsletters should also be available for people to pick up free at the information centre.

c) **Community Forums**. During the Construction Stage the Contractor shall establish a programme of regular community forums. These forums shall be open to all, with key members of the community invited and will provide the Contractor an opportunity to explain the processes, relay information and gather feedback. It also provides an opportunity for participants to set or influence the agenda, along with raising any queries or concerns. This method will provide transparency and trust between the contractor and the local community.

d) **Art and Creativity Events**. Art and creative methods are appropriate to involve the local community in expressing their views and generating ideas using a participative approach. This method could be used to engage with people of all ages through education or school programmes, local community forums and resident interest groups. They may be beneficial at the beginning of a community planning process to generate interest and raise awareness of the forthcoming project.

e) **Street Stalls and Outdoor Displays**. Street and outdoor displays, such as graffiti walls can be used to capture the views and comments of large diverse range of people within local communities. Maps and plans for an area or project can be displayed and passer-by's asked to comments on particular issues and themes, generate ideas or vote for particular activities of facilities.

f) **Community Presentations.** In addition to undertaking regular forums, the contractor is encouraged to perform community presentations at local secondary school, colleges and universities. The presentations should include, but not limited to, identifying the hazards and risks involved when working within the construction and rail industry, the importance of H&S in construction and raising the profile and possible employment opportunities within the construction industry.

g) **Community Projects**. The contractor should consider undertaking minor local projects within the community, as this would demonstrate a willingness to integrate within the local community and display a willingness to establish excellent neighbourhood relations within the local

DRAFT

community, nearby businesses and Local Authorities. Discussions could be undertaken during community forums, to ascertain the nature of projects in which the Contractor could carryout, that might provide tangible benefits to the local community.

18. Agriculture

18.1 It is envisaged that the work will have either a direct impact (land taken for permanent or temporary works) or indirect impact (work undertaken adjacent to land used for agricultural purposes) on agriculture.

18.2 The Contractor is to prepare an agricultural management plan to demonstrate the proposed mitigation to be implemented so as to avoid impact of the works on soils, farms, farm-based business and access. This will include:

a) Identifying the types and locations of farms.
b) Location of surface water outfalls and the location of and sources of irrigation systems.
c) Details of the husbandry associated with areas of land adjacent to work sites, including site compounds.

18.3 Appropriate controls include:

a) Secure, stock-proof, fencing.
b) Prohibiting construction traffic from crossing farm land.
c) Reinstatement of agricultural land used temporarily during construction.
d) Liaison with affected parties.

18.4 The Contractor shall comply with the requirements of the Code of Practice for the Sustainable use of Soils on Construction Sites.

19. Ground Settlement

19.1 Appropriate measures are to be put in place to ensure that ground settlement will be kept as close to zero as practicably possible.

DRAFT

Appendix A - Schedule of Public Authorities

The following information is believed to be correct at the time of writing, but it is the responsibility of the Contractor to correctly identify and contact all relevant Public Authorities.

Company/Organisation	Contact
Bridgend County Council	Mr Jason Jenkins Manager Highways Network Phone: 01656 642814 email: jason.jenkins@bridgend.gov.uk
Caerphilly County Council	**Primary Contact** Mr Steve Hodges – Principal Engineer (Network Management) Tel: 01495 235738 Email hodges@caerphilly.gov.uk **Secondary Contact** Christopher Adams – Interim Group Manager, Tel: 01495 235740 Email adamsc@caerphilly.gov.uk
Cardiff City Council	Structures - Mr Tony Williams Tel: 02922330966 Email tony.williams@cardiff.gov.uk Road closures/works TM - Kadie Irish Tel: 029 22330213 Email Kirish@cardiff.gov.uk Highway Works - Matt Wakelam Tel: 029 22330106 Email mwakelam@cardiff.gov.uk Bus Shelters/stops - Joe Stitfall Tel: 029 20873161 Email JStitfall@cardiff.gov.uk Drainage - David Brain Tel: 02922330963 Email david.brain2@cardiff.gov.uk Street Lighting/Telematics - Dave Kinnaird Tel: 029 20873328 Email. d.kinnaird@cardiff.gov.uk

DRAFT

	Air/Noise Pollution - Jason Bale Tel: 029 20871896 Email. JBale@cardiff.gov.uk Planning - Simon Gilbert Tel: 029 20873479 Email. sgilbert@cardiff.gov.uk Parks - Adrian Jones Tel : 029 22330259 Email a.jones2@cardiff.gov.uk Waste - Tara King Tel: 029 20873329 Email. T.King@cardiff.gov.uk Trees - Ed Baker Tel: 029 22330815 Email. EBaker@cardiff.gov.uk Ecology - Matthew Harris Tel: 029 22330840 Email. mbharris@cardiff.gov.uk
Merthyr Council	Gavin Davies Tel : 01685 726247 email: gavin.davies@merthyr.gov.uk
Monmouthshire Council	Paul Keeble Tel: 01633 644733 Email. PaulKeeble@monmouthshire.gov.uk
Newport Council	Senior Technical Officer (Streetworks) - Janelle Hotter Email: Janelle.hotter@newport.gov.uk / Street.works@newport.gov.uk
RCT	Highways Technical Services Manager - Huw Jenkins Tel: 01443 494801 Email: Huw.Jenkins@rctcbc.gov.uk
Torfaen	Group Leader Highways Network - Andrew Villars Tel: 01495 766737 Email. andrew.villars@torfaen.gov.uk
Vale of Glamorgan	Operational Manager Highways and Engineering - Michael Clogg Tel: 029 20673200 / 07894461551 Email: MTClogg@valeofglamorgan.gov.uk

DRAFT

Appendix B - Relevant British Standards and Guidelines

General

In addition to compliance with all legal requirements applicable at the time for the Construction Works and compliance with certain British Standards referred to in the Code, the following British Standards and guidelines issued by various statutory bodies must be complied with. This is not an exhaustive list

British Standards Institution

BS 5228 Noise control on Construction and open Sites:

- Part 1 (2009): Code of Practice for basic information and procedures for noise and vibration control.
- Part 2 (2009): Guide to noise and vibration control legislation for Construction and demolition, including road Construction and maintenance.
- Part 4 (1992) Code of Practice for noise and vibration control applicable to piling operations.

BS 6031: 1981 Code of Practice for earthworks.

BS 5930: 1999 Code of Practice for Site Investigations

BS 6472: 2008 Guide to evaluation of human exposure to vibration in buildings (1 Hz to 80 Hz).

BS 7385: Evaluation and measurements for vibration in buildings:

- Part 1 (1990) Guide for measurement and vibrations and evaluation of their effects on buildings.
- Part 2 (1993) Guide to damage levels from ground-borne vibration.

BS 7580: 1997 Specification for the Verification of Sound Level Meters

- Part 1 Comprehensive Procedure
- Part 2 Shortened Procedure for Type 2 Sound Level Meters

BS 10175: 2013 Investigation of Potentially Contaminated Sites - Code of Practice

Health and Safety Executive

HSE Guidance Notes HSG 150 (2006) - Health and safety in Construction work.

HSE Guidance Notes EH 10 (2001) Asbestos: exposure limits and

measurement of airborne dust concentrations.

HSE Guidance Notes EH 40 (2011) - Occupationnel Exposure Limits.

DRAFT

HSE Guidance Note HSG 66 (1991) Protection of Workers and the

General Public During Development on Contaminated Land.

HSE Guidance Note L11 (1999) A Guide to the Asbestos (Licensing) Regulations 1983 (as amended)

Natural Resource Wales Pollution Prevention Guidelines (PPG)

Welsh Government Planning Policy

Planning Policy Wales (Edition 9) (November 2016)

Technical Advice Note 5 – Nature Conservation and Planning (2009)

Technical Advice Note 10 – Tree Preservation Orders (1997)

Technical Advice Note 11 – Noise (1997)

Technical Advice Note 12 – Design (2016)

Technical Advice Note 15 – Development and Flood Risk (2004)

Technical Advice Note 18 – Transport (2007)

Department for the Environment, Food and Rural Affairs Guidance

DoE/Defra Contaminated Land Research Reports (CLR), 1 – 11 various authors 1994 - 2003 DoE A Guide to Risk Assessment and Risk Management for Environmental Protection (1995).

DoE Waste Management Papers.

Environment Protection Act 1990 Section 34 Waste Management, The Duty of Care, A Code of Practice (1996).

DoE Industry Profile Series

Traffic Signs Manual.

DCMS Circular 14/97.

Guidance on Contaminated Land

ICE Site Investigation Steering Group: Site Investigation in Construction Sites, Vol. 4 *Guidelines on the Safe Investigation by drilling of landfills and contaminated land* (1993).

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