

CONSTRUCTION PHASE HEALTH & SAFETY GENERAL RISK ASSESSMENT

[The Ridgeway Expansion Project]

To be used/read in conjunction with Galliford Try Safety Procedures, the Site Project Management Plan & Contractor Specific Work Control Plans

Contract N°: C 5251		Project Name: The Ridgeway Expansion Project Senior Project Manager: Tony Harris Safety Manager: Nick Bathurst			Senior Site Manager: Mark Parsons Date of Assessment: 16-03-15				
SUBJECT/ACTIVITY	RISKS/HAZARDS	Degree of Risk			ACTIONS TO BE TAKEN TO CONTROL THE RISK/HAZARDS	Residual Risk			Work Control Plan Number
		L/F	I/S	R		L/F	I/S	R	
Site Set Up	Contact with overhead services. Underground Services. Lifting gear failure (portacabins) Collision with pedestrians. Collision with static buildings. Electrocution. Unfamiliar with location. Unfamiliar with emergency procedures. Health Hazards(paint) Weils Disease Theft Fire Adjacent land use	3	4	12	Study of existing service plans Consider adjacent land use (schools, hospitals, housing, etc) Liaise with Building Manager for emergency procedures during site set up. Delivery transport access will be controlled by the Site Management and Competent Banksman. Site Induction CAT scan of areas to confirm location of services. COSHH Sheets. Use only licensed contractors for installation. Ensure all tools and equipment are serviceable. Secure cabins and equipment at all times Segregation of pedestrians and Transport Secure site from unauthorised access. Produce Fire and Emergency Plan	1	3	3	1.1 - 1.4 2.1 - 2.2 4.1 - 4.3 8.1 9.1 10.1 - 10.2 10.11 10.13

Degree of Risk	=	Likelihood/Frequency	6 = Certain	5 = Probable	4 = Likely to Occur	3 = May Occur	2 = Unlikely	1 = Very Unlikely
		Impact/Severity	5 = Multi Fatality	4 = Fatality	3 = Major Injury	2 = 3 Day Injury	1 = First Aid	
		Risk	= Likelihood/Frequency x Impact/Severity					

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Co-ordination of Contractors, Deliveries	Collision Construction Associated Dangers to Public/Council Staff Congestion Unsafe work practices	3	3	9	Planned deliveries Weekly Coordination meeting. Method statements & Risk assessments approved and in place before work commences Approved methods of Loading/Unloading	1	3	3	All WCP's
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		L/F	I/S	R		L/F	I/S	R	
Confined Spaces	Fumes/Gases Explosion Insufficient lighting Limited access	3	3	9	All operatives working in confined spaces are to have an applicable Permit to Work. All utilities to be isolated Oxygen checks Appropriate PPE for task to be worn Atmospheric testing & Monitored. Control access (no lone working) Method Statement. Rescue procedure & Equipment. Ventilation checks Adequate lighting to be provided	1	3	3	1.4 2.1 - 2.2 3.1 4.1 5.1 9.1 - 9.2 10.13
Exposure to UV Radiation (from the sun)	Sunburn Blistering Cancer	3	4	12	Information on dangers of exposure to the sun given Toolbox talks given PPE rules enforced (cover up)				1.1 - 1.4 2.1 - 2.2

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Asbestos	Damage to health through contact Damage to the environment	2	4	8	Check Asbestos Register. Use Licensed Asbestos Contractor All contractors are told on induction to report any suspected hazardous materials Asbestos Register to be kept updated. Pre- Start Assessment & Survey. Seal & Cordoned Area. Control waste. Method Statement to be followed meticulously. STOP work if asbestos found.	1	3	3	1.1 – 1.4 2.1 - 2.2 3.1 - 3.3 4.1 - 4.3 5.1 - 5.3 6.1 - 6.3 7.1 - 7.8 8.1
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		L/F	I/S	R		L/F	I/S	R	
Demolition	Collapse Materials Falling Personnel Falling Equipment Failure Structure collapse Dust Noise	3	4	12	Site Induction, Use recognised contractor. Pre- Start Assessment & Survey. Isolate all services before work commences Seal & Cordon Areas, Control waste. Method statements to be strictly followed. Personnel trained - Personnel rotated. Equipment tested before use, HAV Risk assessment. Appropriate signage. Area restricted to minimum workforce. Shoring & support - Physical Barriers.	1	3	4	1.1 – 1.4 2.1
Traffic Management	Collision with personnel Collision with other vehicles Collision with stationary objects	3	4	12	All elements of the MCL Traffic Management Plan are to be implemented All personnel to wear appropriate/distinctive Hi-Vis All areas on/adjacent to the highway shall be properly signed Consultation with Traffic Police and Local Highway Authority Working areas in roads and pavements to be protected by substantial barriers All barriers and signs should be supplemented by lamps during the hours of darkness A Banksman will be used at all times	1	3	3	1.1 – 1.4 4.1 - 4.3

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		L/F	I/S	R		L/F	I/S	R	
Electric Power Tools	Cuts Amputation Entanglement Electrocution Hearing Damage Struck by moving parts / objects	3	3	9	Competent & authorised operatives Qualified operatives to mount abrasive wheels, 110 voltage tools only to be used PAT Testing certificates. Regular maintenance checks to be carried out *See also; Noise, Site Electrics, Vibrating Equipment	1	3	3	All WCP's
Environmental	Protection of Ground / Water Courses	2	4	8	Correct disposal of hazardous substances by licensed contractors. Store hazardous substances in bunded areas Keep hazardous substances away from drains Contain spills, bunding etc.	1	3	3	1.1 – 1.4 2.1 - 2.2 3.1 - 3.3 4.1 - 4.3 5.1 - 5.3
Contaminated Land	Identification Dealing with Disposal	2	4	8	Comprehensive survey carried out and findings recorded in H&S File. Approved specific method statement in place Correct disposal of hazardous substances by licensed contractors.	1	3	3	1.1 – 1.4 2.1 3.1 - 3.3 4.1 - 4.3

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Excavations	Collapse Vehicle/Personnel Falling into trench Striking Services. Plant Tipping over.	2	3	6	Supports/Shoring as soon as ground necessitates. Vehicle/Plant Blocks, Guard rails, Physical Barriers Frequent CAT Surveys No Storage of materials near edge of excavation Banksman to be used at all times Permit to Dig. Follow laid down procedures in Method Statement Adequate access/egress to excavation	1	3	3	1.1 – 1.4 3.1 - 3.3 4.1 - 4.3 8.1
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		L/F	I/S	R		L/F	I/S	R	
Existing Services & Overhead Services	Contact with service Damage to service Electrocution Fire/explosion Flooding	2	2	4	Comprehensive survey carried out and findings recorded in H&S File. All personnel trained. All Services to be disconnected/dead and checked prior to work starts. Permit to Work All Services to be marked outside of footprint	1	2	2	1.1–1.4, 2.1-2.2, 3.1-3.3, 4.1-4.3, 5.1-5.3, 6.1, 7.2, 7.5-7.8 9.1-9.2
Installing Plant	Personnel Tripping/Falling Material Falling Manual Handling Collision with personnel & Equipment	3	4	12	Risk assessment and projected lifting plan Cordon and control area, Segregation from personnel Use Mechanical Methods where possible. Coordination of movements.	1	3	3	1.1–1.4 9.1-9.2

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Plant and Machinery	Collisions with plant, persons Contact with moving parts Over turning	3	3	9	All Guards To be Fitted to machinery. Secured all round Hoardings. Warning signage Segregation of the public Control of Plant and Vehicle movement. Certified personnel only to operate	1	3	3	1.1–1.4, 2.1-2.2, 3.1-3.3, 4.1-4.3, 5.1-5.3, 6.1, 7.2, 7.5-7.7 9.1-9.2
Lifting Operations	Falling plant and material Failure of appliance Collisions with persons, overhead services. Personnel being struck	3	4	12	All equipment to have Certificate of Thorough Examination. Contracted Lifting Plan and the use of an Appointed Person as per LOLER 1998 Lifting Equipment is only to be operated by a Trained person. No overloading of personnel or materials	1	3	3	1.1–1.4 2.1-2.2 3.1-3.3 5.1-5.3 6.1 7.1-7.3 7.7 9.1-9.2

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Noise	Industrial deafness Tinnitus Temporary hearing loss Noise pollution Correct PPE used. Limited use. Area restricted to minimum numbers of workforce.	3	3	9	Noise assessments Training / Tool box talks Plant selection. Warning signs / barriers / noise protection zone	1	3	3	1.1–1.4, 2.1-2.2, 3.1-3.3, 4.1-4.3, 5.1, 6.1-6.3, 7.1-7.3, 8.1, 9.1-9.2, 10.5-10.6 10.12

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Members of the Public, Visitors & Others	Falling materials Collision / Falling Tripping Struck by materials/equipment	3	3	9	Visitors will be Safety Inducted and escorted Visitors are to wear PPE Restricted access to designated areas Segregated walkways & access to the parking areas. Appropriate signage. Protective barriers & scaffold fans in vulnerable areas. Hoarding/ Walls will be erected to segregate the public from the construction areas.	1	3	3	1.1 – 1.4
Occupied Premises whilst construction works in progress	Falling materials Collision Tripping	3	3	9	Min 2.44m high Heras or Hoarded fencing to exclude non construction operatives. Segregated walkways & access to the parking areas. Appropriate signage. Protective barriers & scaffold fans in vulnerable areas.	1	2	2	1.1–1.4 2.1-2.2 3.1-3.3 4.1-4.3 8.1

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Ecological Impacts on the site	Tree removal affecting Ecology	2	3	6	Appropriate surveys to ensure the ecological aspects are identified and mitigating measures employed prior to any construction work commencing.	1	2	2	

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Crane Lift	Materials Falling Personnel Falling Equipment Failure Traffic Collision Installation/Dismantling	4	4	16	Use trained personnel to Hook Up. Trained Personnel only to work in restricted area. All equipment certification checked before Lift starts Area cordoned off and signed. Follow laid down procedures in MS Traffic Management. Access to exclusion zone to be restricted/limited Rescue Procedures & Equipment in place	1	3	3	1.1–1.4 2.1-2.2 3.1-3.3 5.1-5.3 6.1 7.1-7.3 7.7 9.1-9.2
Unexploded Bombs	Risk of explosion, contamination	3	4	12	Brief all workforce on potential Employ a watching brief Stop Work if any suspicion of potential WWII Bomb	1	2	2	1.4
Heating Systems	Contamination Leaks	3	3	9	Isolate all services before work commences and clean systems Permit to Work	1	2	2	1.1–1.4 2.1 9.1
Smoking	Fire Explosion Passive smoking	4	4	16	No smoking on site. Designated smoking areas. Informed of smoking policy on Site Induction	1	3	3	1.1–1.4

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Contamination of local watercourses	Spillage or contamination of nearby watercourses due to construction activities	3	3	9	Spill kits available. Check and identify existing drainage routes. Permit to discharge from Thames Water into foul system to ensure no ground water with Silt can contaminate the surface water system and attenuation pond.	1	3	3	1.1–1.4 6.1 – 6.2

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Site Access/Egress	Vehicle collision Collision with Persons/Plant Trips/Falls	3	3	9	Controlled entry to site by site security office Warning signs at site entrance and on site All personnel and vehicles to book in and out Use a trained Banksman. Install a pedestrian walkway.	1	3	3	1.1–1.4 4.1 – 4.3
Site Electrics (Work on Existing Electrics / Installation of new Electric Systems)	Electrocution Fire/Explosion Tripping hazards (cables)	3	4	12	110v on site. (ensure a test certificate) Cable management Competent/Qualified Operatives to carry out electrical work, Permits to work in vicinity of live electrics Fire plan Halogen lights not to be used Use battery tools where possible Good housekeeping	1	3	3	All WCP's
Manual Handling	Musculoskeletal injuries Falling\tripping Trapping toes\ fingers Lifting of Heavy Materials	3	3	9	All personnel instructed on Manual Handling techniques. Personnel not to lift over 20kg. Correct Signage displayed. Manual Handling Assessments carried out. Use of Mechanical means where possible. Correct PPE for the task	1	3	3	All WCP's

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Storage & Security	Falling/collapsing materials Obstruction of other buildings Unauthorised use of equipment Fire/Explosion Loss/theft Unauthorised access	3	3	9	Designated storage areas within site Hazardous substances/gases stored in secure area Site fully secure during & after works Tools/Eqpt secured to prevent unauthorised use Security personnel on site. Erect internal hoardings. Erect external hoarding.	1	3	3	1.1
Control of Substances Hazardous to Health	Respiratory distress – inhalation Skin irritation/diseases Eye injury Ingestion/Poisoning Cancers Gases Irritant	3	4	12	Substitute substances for least hazardous COSHH assessments to be carried out Where possible use water based paints and non-toxic solvents. Suitable PPE & ventilation / extraction Good housekeeping Washing facilities Training / Tool box talks/Induction Limited use of substances Restricted access Secure storage to ensure access to authorised ops Health monitoring to be carried out if required	1	3	3	1.1 2.1-2.2 4.1-4.3 5.1-5.3 6.3 7.1 7.4-7.5 8.1 9.1-9.2 10.1-10.13

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Temporary Works	Failure of temporary structure Collapse Stability of structures	3	3	9	Comprehensive site survey carried out Competently designed works Approved specific risk assessment/method statement required Co-ordinator to supervise Competent operatives to be used	1	3	3	1.1-1.4, 2.1-2.2, 4.1, 5.1, 8.1 9.1-9.2
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Vibrating Equipment	Arm\hand\finger damage HAV White Finger	3	3	9	Plant selection and maintenance/Inspections Rotation of operatives Restricted working hours Toolbox Talk on recognition of symptoms Personnel Trained Equipment tested before use HAV Risk Assessment/Recording	1	3	3	1.1-1.4, 2.1-2.2, 3.1-3.3, 4.1-4.3, 5.1-5.3, 6.1-6.3, 7.1-7.3, 8.1, 9.1-9.2, 10.4-10.6
Waste Management	Damage to health through contact Damage to the environment Danger to public	3	4	12	Good housekeeping Suitable storage of waste Limit storage of waste Correct disposal by licensed contractors Periodic checks that waste is disposed of correctly Checks of Waste Disposal Certificate. Site Team & Sub-Contractors to monitor.	1	3	3	All WCP's

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Fragile Surfaces	Personnel falling Material falling	4	3	12	Approved method for Working at Height Edge protection in place Fragile surfaces clearly marked Follow laid down procedures in MS. Permit to Work area	1	3	3	1.1-1.4 2.1-2.2 7.1-7.7 9.1-9.2
Welding / Hot Work	Fire Burns Smoke / Fumes (Lead) Explosion	3	4	12	Permit system in place, PPE Restricted area/Fire Extinguisher at hand Limited hot works Local extract / natural ventilation Checks of area 1 hour after work has ceased	1	3	3	1.1, 2.1-2.2, 5.1-5.3, 6.1- 6.3, 7.1-7.6, 9.1-9.2, 10.6, 10.12

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Working at Height	Personnel falling Material falling Failure of working platform Working next to open risers Holes in structural floor	3	4	12	Guard rails and toe boards on all mobile towers Mobile towers erected by competent operatives Licensed scaffolders to erect independent scaffold. All personnel trained for the work. All equipment is correctly assembled. Harness Inspections/Maintenance (Harness register). Working platforms not over loaded Weekly inspections of all ladders, stepladders and working platforms. (Permit to Work) The appropriate W@H Equipment for the task used Rescue Procedures & Equipment in place Edge protection must be installed including brick guards, debris netting when applicable.	1	3	3	1.1-1.4 2.1-2.2 4.1 5.1-5.3 6.1-6.3 7.1-7.8 8.1 9.1-9.2 10.1-10.3 10.5-10.6 10.8 10.12-10.13
Working adjacent to a live school	Children getting on to construction site areas and getting injured	4	4	16	Secure and solid fencing perimeters around all construction site areas Daily fence checks to ensure no damage Toolbox talks to operatives and school Warning signage across all hoardings	2	2	4	1.1 – 1.4

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Fire and Emergency Procedures	Fire Alarm Systems Fire Routes Obstructed Fire Marshals responsibilities Lack of Detection Visibility and illumination of signs Fire Doors Being Left Open Confusion through lack of co-ord Fire Spread Lack of understanding procedures Lack of information for Fire Services	5	5	25	An acceptable means of sounding the alarm is to be agreed by all parties. Once agreed it will be written into the Fire Plan. Fire Marshals are to constantly monitor routes Ensure all escape routes go away from building. Fire Marshals to be conversant with responsibilities. Smoke/Heat Detectors must be installed into Offices, Welfare and Main Construction Areas Emergency Lighting is required in all areas. Fire Signage is required in at all visible points. Signage is to be photo illuminescnt for high visibility. Fire Escape Signage is to be posted around routes Fire Doors are to be self closing. Site Induction. Fire Drill Fire Points are to be established near each exit/entry and in the centre of buildings. Contact with local Fire Brigade at start of project Security to have information on the accountability of all personnel Site Layout with location of all LPG/Oxyacetylene operations Keep all routes Clear.	1	5	5	All WCP's

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Working in Isolation	Working in isolated areas Lack of Control/Contact	3	3	9	No lone working Permit to work Frequent Checks	1	3	3	1.1-1.4, 2.1, 7.2-7.6 9.1-9.2
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Weils Disease	Rats in Drains. Working near water areas. Working near waste.	3	3	9	Health surveillance. Site Inductions. PPE Personal Hygiene.	1	3	3	All WCP's
Young Workers	Unfamiliar with site hazards, Inexperienced, Immature Tiredness	3	4	12	Young workers specific risk assessment Site Induction Good supervision/not be left alone Restricted works/equipment	1	2	2	All WCP's
Highways works to form new entrance and exits	Working in public highway / public footpath Risks to general public Damage to surrounding street furniture/infrastructure	3	4	12	Agree traffic control measures and diversions with council Dedicated supervisor for highways works Appropriate fencing and segregation Chapter 8 street-works trained operatives PPE Warning signage	2	2	4	1.1 – 1.4

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