OPW
Oifig na nOibreacha Poiblí
Office of Public Works

Civil and Structural Engineering

Designer Risk Assessment

Culvert Reconstruction and ancillary works - Phase 2,

Peoples Gardens,

Phoenix Park,

Dublin 8

Document Verification

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Phoenix Park - Culvert Reconstruction and ancillary works- Phase 2												
Structural Design - Health and Safety Design Risk Assessment												
Legend and Explanatory Notes												
P = Probability: 1 = Low Probability / Unlikely, 2 = Medium Probability / Likely, 3 = High Probability / Very Likely												
S = Severity: 1 = Minor injury resulting in absence from work for no longer than a week 2 = Serious injury resulting in long term absence from work 3 = Injury resulting in permanent disability or death												
R = Risk Rating = P x S : 1 to 3 = Low Risk, 4 to 6 = Medium Risk, 7 to 9 = High Risk												
								All personnel on site should be registered with Safepass and be familiar with the Health and Safety requirements associated with tasks being undertaken and the construction plant under their control. All site personnel should be issued with and must wear the required P.P.E. (Personal Protection Equipment).				
Hazard	**Risk**	**At Risk**	**Estimated Risk**				**Pre-Tender Action Taken (PTA)**	**Control Measure**	**Revised Risk**			
			P	**S**	**R**	**Rating**			**P**	**S**	**R**	**Rating**
General Construction Site Hazards	Serious Injury or Death	Contractor	3	3	9	High	No PTA Practicable	In every part of the work, the Contractor must comply with the General Principles of Prevention, and comply with the relevant Codes of Practice. The Contractor must fully implement the appropriate HSA guidelines on each type of work. Liaise with OPW Phoenix Park Management.	1	3	3	Low
Personal Protection	Serious Injury or Death	Contractor	3	3	9	High	No PTA Practicable	Contractors are required to ensure that their employees, and all site visitors are adequately attired with suitable and approved Personal Protective Equipment (PPE) at all times while on site. PPE should include helmets, boots, gloves, goggles, ear muffs, dust masks etc. as required.	1	3	3	Low
Access to site unrestricted to pedestrians and cyclists.	Serious Injury or Death	Public	2	3	6	Medium	No PTA Practicable	Contractors to ensure management of access and egress from the site, and deliveries to the site are managed to prevent possibility of harm or injury to members of the public using adjacent rights of way. The access and pedestrian routes to be maintained in a clean condition and free, as far as is reasonable, from debris, mud or any other hazards likely to pose a risk to safety, health and welfare of non-site personnel.	1	3	3	Low
Access to site restricted from Parkgate Street gate. Phoenix Park will remain accessible to pedestrians and cyclists during the contract.	Serious Injury or Death	Contractor	2	3	6	Medium	No PTA Practicable	Contractors to ensure management of access and egress from the site, and deliveries to the site are managed to prevent possibility of harm or injury to members of the public using adjacent rights of way. Liaise with OPW Phoenix Park Management to ensure there are no traffic management issues with site entrances.	1	3	3	Low

Manual Handling heavy lift equipment and materials	Back injuries, short term and long term	Contractor	2	2	4	Medium	No PTA Practicable	Contractor should ensure that heavy equipment is carried by minimum of two people. Provide method statement for items >3m in length and >30kg in weight.	1	2	2	Low
Site Traffic	Being struck by moving vehicles on site	Contractor	2	2	4	Medium	No PTA Practicable	The contractor should liaise with the OPW Phoenix Park Management and implement a Site Traffic Management Plan for the Construction site. The works are to be undertaken on and close to public roads and footpaths. The necessary signage and traffic management procedures must be in place to ensure the safety of all work personnel and the public.	1	2	2	Low
Construction waste management and site storage	Serious injury due to trip hazard.	Contractor	2	3	6	Medium	No PTA Practicable	Contractor to ensure waste is regularly cleared and located and protected to avoid trip hazards and restrictions to access and circulation. Flammable waste to be stored outside and at a safe distance from the historic monument. Liaise with OPW Phoenix Park Management. No articulated tipping trailers are be used, as these trucks required very stable ground for safe tipping. Only rigid tipping body trucks are permitted on site.	1	3	3	Low
Slips and trip hazards	Slips, trips and falls.	Contractor	3	3	9	High	No PTA Practicable	Site to be maintained free of hazards which could result in trip or slips	1	3	3	Low
Burial Under Earth falls	Works which puts persons at work at risk of burial under earth falls, engulfment in swampland	Contractor	3	3	9	High	No PTA Practicable	Where the risk is particularly aggravated by the nature of the work or processes used or by the environment at the place of work or site contractors to ensure when tipping material, either excavated or supplied all work persons should be well clear of the vehicles before the tipping operation can commence. Specific Safety Procedures are required such as shoring, battering, or trench boxes are employed for excavations, noting that supports may even be necessary in trenches less than 1.25 meters deep depending on soil stability and site conditions.	1	3	3	Low
Working with chemical or biological substances	Work which puts persons at risk from chemical or biological substances constituting a particular danger to safety and health or involving a legal requirements for health monitoring.	Contractor	2	3	6	Medium	No PTA Practicable	Specific Safety Procedures are required when working with hot bituminous material and cement materials. Work to be planned and executed in a safe manner by PSCS through the provision of safe operating procedures and wearing of PPE.	1	3	3	Low

Work involving the assembly or dismantling of heavy prefabricated components	Work involving the assembly or dismantling of heavy prefabricated components for example: heavy steel structural frame elements, heavy precast concrete frame elements or heavy prefabricated plant items.	Contractor	2	3	6	Medium	No PTA Practicable	Specific Safety Procedures are required before commencing any lifting operation all site personnel should be well clear of any possible dangers. All necessary precautions to be take prior to construction / movement / installation of said elements.	1	3	3	Low