

HASSETT LEYDEN & ASSOCIATES			Hazard Identification and Design Risk Assessment																																															
ROSLEVAN SHOPPING CENTRE, TULLA ROAD, ROSLEVAN, ENNIS, CO. CLARE, T. (065) 6828422 FAX. (065) 6820379 Mail. hlamail@hassettleyden.ie			Discipline: C & S Engineering		Assessment of Hazard (Severity) 5 - Death (death/multiple deaths) 4 - Long-term health consequence (disabling injury /chronic illness) 3 - Short-term health consequence (restricted work activity, strain/sprain) 2 - No significant health & safety consequence (first-aid) 1 - No health & safety consequence					S E V E R I T Y <table border="1"> <tr><td>5</td><td>M</td><td>M</td><td>H</td><td>H</td><td>H</td></tr> <tr><td>4</td><td>M</td><td>M</td><td>M</td><td>H</td><td>H</td></tr> <tr><td>3</td><td>L</td><td>M</td><td>M</td><td>M</td><td>H</td></tr> <tr><td>2</td><td>L</td><td>L</td><td>M</td><td>M</td><td>M</td></tr> <tr><td>1</td><td>L</td><td>L</td><td>L</td><td>M</td><td>M</td></tr> <tr><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> </table> LIKELIHOOD					5	M	M	H	H	H	4	M	M	M	H	H	3	L	M	M	M	H	2	L	L	M	M	M	1	L	L	L	M	M		1	2	3	4	5
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A) Particular Risks as set out in Schedule 1 of Safety, Health & Welfare at Work (Construction) Regulations, 2013.																																																		
1a	Working at height	Injury due to falling from a height	3	2	M	Due to the nature of the works working at height is unavoidable. Contractor is to follow the HSA General Principles of Prevention for Managing Risks from Working at a Height				2	2	L	Contractor Maintenance	All works carried out at a height are to be from a safe, stable and guarded platform. No works at height are to be carried out from a ladder or other item to give access. The Contractor is to carry out a Risk Assessment before works commence. The Contractor is to follow the HSA General Principles of Prevention for Managing Risks from Working at a Height.																																				
1b	Entrapment / burial due to sudden collapse of excavation banks.	N/A			L							L																																						
1c	N/A	Engulfment in swampland				N/A																																												

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2	Risk from chemical or biological substances.	Substances which pose a danger to the safety and health of persons.	4	3	M	Such substances should only be used where their use is deemed unavoidable.	3	1	L	Contractor	Written risk assessments are to be carried out by a competent person to determine the appropriate control procedures to be put in place. Any control procedures to be included in the Site Specific Safety Plan. MSDS to be supplied for all such materials, kept on site, & included in the Site Specific Safety Plan.																																							
3	Works with Ionizing Radiation	N/A																																																
4	Work near high voltage power lines.	Refer to Service Engineers' DRAs																																																
5	Work exposing persons at work to the risk of drowning.	N/A			L				L																																									
6	Work on wells, underground earthworks and tunnels.	N/A				N/A					N/A																																							
7	Work carried out by divers at work having a system of air supply.	N/A				N/A					N/A																																							
8	Work carried out in a caisson with a compressed-air atmosphere.	N/A				N/A					N/A																																							
9	Work involving the use of explosives.	N/A				N/A					N/A																																							

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10	Work involving the assembly or dismantling of heavy prefabricated components.	Injury due to items heavier than appear. Incorrect lifting method, lack of mechanical handling equipment, lack of assistance for heavy load, lack of protective footwear, sharp edges, lack of supervision, lack of on site planning	5	3	H	Where possible the works have been designed to minimise the use of heavy prefabricated items.	4	2	M	Contractor	All items to be marked with weight. Contractor to provide mechanical handling equipment to move items which cannot be safely man handled. Safety footwear to EN ISO 20345 and protective Kerlor and rigger gloves must be worn. Complete planning and supervision of each operation must be provided by the contractor.																																							
B) Risks in addition to those set out in Schedule 1 of Safety, Health & Welfare at Work (Construction) Regulations, 2013.																																																		
11	Heavy machinery used close to the general public.	Risk from traffic – site access	5	3	H	Site access connections required via access as part of the works.	5	1	M	Contractor Public Staff	The Contractor should plan for each works zone with provision for safe movement of machinery & traffic. Construction traffic should use designated entry/egress points to enter public spaces and along designated access routes to the site, with suitable barriers / fencing around work zones and associated warning signs & active traffic management. Construction vehicles and machinery should be in good working order, with flashing beacons & reversing warning alarms																																							

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12	Heavy machinery used close to the general public.	Risk from traffic –service connections & road upgrades.	5	3	H	Heavy machinery required during works.	5	1	M	Contractor Public Staff	Refer to Item 11. When working close to existing premises adequate signage shall be used to warn people of hazards & the construction site. Works area to be defined with fencing.																																							
13	Falling into open trenches.	Injury due to falls.	4	3	M	Works related to open trenches minimised.	2	2	L	Contractor	The edges of all trenches are to be protected properly.																																							
14	Working with sewerage or on sewerage works.	Injury / illness due to disease.	5	3	H	Works on sewers have been kept to a minimum but cannot be eliminated.				Contractor	Personnel are to be properly prepared through instruction, training and supervision. Provide suitable personal protective equipment, that should include waterproof/abrasion-resistant gloves, footwear, eye, respiratory protection and face visors.																																							

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15	Existing services	Risk from other services, service tie ins & drainage works.	3	3	M	Refer to Service Engineer and client information.	3	1	L	Contractor	All service providers are to be consulted in relation to the works. Existing documentation is to be consulted before works commence. Services are to be located using cable locators & by hand excavation before machine excavators begin works.																																							
16	Dust	Injury to eyes and / or lungs due to presence of dust.	4	3	M	Dust will be generated during works. Contractor to minimise the use of dust producing products during works.	3	2	M	Contractor	RAMs to be prepared. Safe systems of work and dust suppression systems to be used. Proper PPE to be used. Refer to HSA website & Information Sheet on Crystalline Silica Dust																																							
17	Barbed wire	Injury due to contact with barbed wire.	2	2	L	New barbed wire is not to be used during works. Existing barbed wire to be removed.	2	2	L	Contractor	Proper PPE to be used.																																							
18	Fresh Blockwork	Injury due to falling blockwork / falls caused by fresh blockwork.	5	3	H	Blockwork is required during works.	4	2	M	Contractor	Fresh blockwork is to be propped and protected to avoid falls on personnel.																																							

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19	Works on roof during high winds, frost, wet or other weather conditions that make working on roof hazardous.	Falls from a height.	5	3	H	Works on roofs cannot be eliminated.	4	3	M	Contractor	Contractor is to cease works during high winds, frost or other adverse weather conditions that make working a hazard.																																							
20	Rock breaking / noise.	N/A			M				L																																									

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21	Works associated with working in a confined space.	Toxic atmosphere, oxygen deficiency, oxygen enrichment, flammable or explosive atmospheres, excessive heat.	5	3	H	Works in confined spaces minimised. Only those with confined space training are to enter live manholes after checking that there is no gas build-up that could cause personnel to be overcome by such gasses.					5	2	M	Contractor Maintenance		Principal Contractor to identify hazards and carry out a Risk Assessment before work commences. Contractor is to ensure a system of work is in place and that anyone entering a confined space has been provided with appropriate information, training and instruction appropriate to the particular characteristics of the proposed work activities. Contractor is to also put in place emergency arrangements in case of incident.																																		
22	Presence of asbestos	Health risks associated with asbestos fiber release.	5	5	H	Health and Safety precautions set out in Preliminary Health and Safety Plan.					5	5	H	Contractor		Asbestos must be removed and disposed of in accordance with HSWW Regulations 2006., 2001 and 1998).																																		

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23	Entering and working in manholes (a) with live sewerage flows: (b) when closing off the live flow with a plug: (c) arranging a pump to pump out a manhole of effluent : (d) to form channels in the base of existing manholes.	Injury due to disease, drowning or asphyxiation.	5	3	H	Working in manholes cannot be eliminated completely.	4	3	M	Contractor Maintenance	The person entering shall be adequately attired with overalls, mask, gloves & eye protection. He shall also be adequately fitted with harness & tripod for lowering & lifting out of the manhole. The work in the manhole closing off the flow should be done at a time when the last flow is expected such as mid-morning or mid-evening. The second person should not enter the manhole & shall be vigilant & responsible for the person who has entered the manhole. The persons entering the manhole & the 2nd person on the outside shall both have confined space training & both shall be fully vigilant until the man who entered the manhole is fully clear & in good health.																																							
24	Vibration	Injury due to excessive noise. Damage to property due to vibrations.	4	3	M	Use of vibration causing tools to be kept to a minimum.	3	3	M	Contractor	Contractor to keep vibrations to a minimum to avoid damage to adjoining properties and to personnel on site.																																							

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25	Falling objects; Equipment or Materials	Injury due to falling objects; equipment or materials	5	3	H	Due to the nature of the project working at height cannot be eliminated.			4	2	M	Contractor Maintenance			Ensure that all works areas are fenced off so that falling objects or material used on elevated working areas or platforms do not fall outside the fenced works area. Aadequate precautions must be taken, when persons are working at height, as a control against falling objects e.g., use of tool belts, strict adherence to site housekeeping rules, etc. In addition, the following must be addressed: • Safe systems must be used to place materials in position & for the removal of waste • Tools & materials must be lowered & not thrown from scaffolds or from a height. • Guard rails & toe-boards must be provided around all edges to prevent falling objects • All materials must be stacked & laid out to prevent their collapsing or overturning • All personnel on site must wear adequate PPE																																			
26	Loose Material, Flying Objects	Injury due to flying objects.	5	3	H	Materials are required on site so risk cannot be eliminated..			4	3	M	Contractor Hospital users			Ensure that any materials being brought in or out of the site are well secured on vehicles leaving and entering the site. Ensure workmen are wearing adequate safety gear.																																			

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27	Lifting Materials onto roof	Injury due to transfer of materials or materials stored incorrectly.	5	3	H	Materials are required on site so risk cannot be eliminated..	4	2	M	Contractor	Activity should be planned beforehand. If materials are to be brought through the building permission should be obtained from the client. Cranes shall be operated by qualified operators and shall only be operated in suitable weather conditions. Secure all materials on the roof to ensure they do not get blown off.																																					
28	Trespassing	Injury damage caused by non contract personel accessing site.	5	2	M	Risk cannot be avoided or eliminated by design.	5	2	M	Public	Works are to be fully secured at all times.																																					
29	Temporary Support / Demolition	Injury due to inadequete temporary supports.	5	3	H	Temporary shoring and bracing will be required during works & cannot be eliminated by design.	5	4	M	Contractor	Temporary supports to be designed by Contractor's Engineer who is to ensure the structure is safe at all times during works. Temporary works to comply with BS 5975:2019 & a Temporary Works Design Cert should be in place before temporary works begin.																																					
30	Defective Equipment / Machinery	Injury due to defective equipment or machinery.	5	3	H	Risk cannot be avoided or eliminated by design.	5	3	H	Contractor	All equipment and machinery must be checked before use and defective equipment and machinery should not be used.																																					
31	Slips & Trips	Injuries due to slips and trips.	5	3	H	Risk cannot be avoided or eliminated by design.	5	3	H	Contractor	Ensure that site is kept clean and tidy at all times to reduce risk of slips and trips.																																					
32	Access ladders	Injuries caused by inadequete securing and use of access ladders.	5	3	H	Risk cannot be avoided or eliminated by design.	5	3	H	Contractor	Works are to be fully secured at all times.																																					

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33	Compaction of hardcore & use of vibrating compactor within the trench.	Injuries caused by use of vibrating compactor.	4	3	M	Compaction required during works.	4	3	M	Contractor	Use recommended ear protection and ensure trench sides are stable.																																							
34	Use of site dumpers	Incidents caused by dumpers overturning or overrunning an edge.	5	3	H	Site dumpers may be required during works.	5	3	H	Contractor	Risk Assessment to be carried out before works commence. Chocks and/or stop blocks to be used to prevent incidents. Refer to HAS <i>Safe Use of Site Dumpers on Construction Sites</i> information sheet.																																							
35	Works in live traffic	Injuries, fatalities or damage caused by interaction with live traffic.	5	3	H	The design requires works in a live road including provision of replacement and new utilities that will require future access for maintenance.	5	2	M	Contractor Hospital users.	All utilities shall be located where possible in the footpath or near the road edges to limit interactions with live traffic during construction and maintenance. The Contractor will plan the arrangements for each works zone to provide suitable protection from and for live traffic. The Contractor will agree TTM (in accordance TSM) with the local authority and relevant stakeholders.																																							

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36	Demolition works	- Falls from height - Injury from falling materials - Uncontrolled collapse - Risks from connected services - Traffic management - Hazardous materials - Noise and vibration - Fire	5	3	H	Due to the nature of the project demolition works are required during the works.	5	2	M	Contractor Public Staff Hotel users	Refer to Preliminary Health and Safety Plan. The HSA Safe System of Work Plan (SSWP) Guidelines and Construction Form 3 (Demolition) should be used.																																							
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