

# Job Hazard Analysis

(Always Wear Proper PPE)

<b>Project:</b>	<b>Superintendent:</b>
<b>Task: Sheet Pile Driving</b>	<b>Date:</b>

Step	Potential Hazards	Safe Procedures/ Crew Responsibilities
<b>Preparation</b>		<ul style="list-style-type: none"> <li>• Engineer designed plan for sheet pile installation in place</li> <li>• Designate a Competent Person or persons</li> <li>• Review P3 (Preparation Planning Procedures) and Hazard Analysis with crew</li> <li>• Assess location and conditions *</li> <li>• Complete and review STA's daily</li> </ul>
<b>Proper layout/layout limits</b>		<ul style="list-style-type: none"> <li>• Review plans and specs; discuss with owner's rep.</li> </ul>
<b>Mark and locate all existing utilities in conflict with job</b>	Damage to underground utilities	<ul style="list-style-type: none"> <li>• Notify Dig Safe and all non-member utilities prior to start</li> <li>• Maintain markings and mark utility locations on plans</li> <li>• Use hand tools to dig within 18" of the marked line until the utility is exposed</li> </ul>
<b>Relocate utilities as needed</b>	Test pit or trench cave-in	<ul style="list-style-type: none"> <li>• Use proper shoring or sloping</li> </ul>
	Injury to employee if live electric or gas line is hit	<ul style="list-style-type: none"> <li>• De-energize utility lines if possible while locating</li> </ul>
	Damage to overhead utilities	<ul style="list-style-type: none"> <li>• Follow the 10' overhead clearance rule</li> </ul>
	Personnel struck by equipment or trucks	<ul style="list-style-type: none"> <li>• Ensure back up &amp; travel alarms are working and loud enough</li> <li>• Keep spectators out of the work area</li> <li>• All employees wear high-visibility vests at all times</li> <li>• Maintain eye contact with operators and drivers</li> </ul>

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<b>Step</b>	<b>Potential Hazards</b>	<b>Safe Procedures/ Crew Responsibilities</b>
<b>Unload sheet pile materials</b>	Cuts from sharp metal edges	<ul style="list-style-type: none"> <li>Wear good quality leather gloves</li> </ul>
	Hit by materials being unloaded and stacked	<ul style="list-style-type: none"> <li>Barricade unloading / storage area to keep non-essential people away from unloading operation and stored materials</li> <li>Ensure materials are stored in a stable and secure condition</li> </ul>
	Rigging failure	<ul style="list-style-type: none"> <li>Competent person inspects rigging and uses proper rigging procedures</li> </ul>
<b>Drive sheets with excavator using sheet pile driver</b>	Hit by sheet pile during positioning	<ul style="list-style-type: none"> <li>Inspect grippers on the pile driver</li> <li>Only one person helps direct the excavator operator while placing the sheet</li> <li>Stay well back until the operator needs assistance</li> <li>Use barricades to keep all other personnel a distance of at least 1½ times the length of the sheet away from the operation during positioning</li> </ul>
<b>Excavate to whaler elevations</b>	Hit by machine	<ul style="list-style-type: none"> <li>Maintain eye contact with equipment operator</li> </ul>
	Hit by excavation materials	<ul style="list-style-type: none"> <li>Maintain safe distance from excavation operation</li> </ul>
	Hit by rocks falling off truck	<ul style="list-style-type: none"> <li>Truck drivers stay in trucks during loading</li> </ul>
	Falling or tripping into hole	<ul style="list-style-type: none"> <li>Barricade work area or leave sheets 42” above grade</li> <li>Use secured ladder in good shape to enter holes over 4’ deep</li> </ul>
<b>Weld in whalers</b>	Welding flash	<ul style="list-style-type: none"> <li>Maintain safety zone during welding operations</li> </ul>
<b>Continue to excavate and install whalers per design plan to final grade</b>	Confined space hazards	<ul style="list-style-type: none"> <li>If the excavation has a recognized or potential hazard, follow all permit required confined space procedures</li> </ul>
	Water in excavation	<ul style="list-style-type: none"> <li>Dewater excavation before entry**</li> </ul>
<b>Perform planned work inside box and backfill per design</b>		<ul style="list-style-type: none"> <li>Complete a separate JHA for the job that will be done inside the sheet pile structure</li> </ul>

