

Job Hazard Analysis

(Always Wear Proper PPE)

Project:	Superintendent:
Task: Water Line Installation	Date:

Step	Potential Hazards	Safe Procedures/ Crew Responsibilities
Preparation		<ul style="list-style-type: none"> • Designate a Competent Person or persons • Review P3 (Preparation planning Procedures) and Hazard Analysis with crew • Assess location and conditions* • Complete and review STA (Safety Task Assessment) daily
Proper Layout		<ul style="list-style-type: none"> • Review plans and specs; discuss with owner rep.
Mark and locate all existing utilities	Damage to existing buried utility lines	<ul style="list-style-type: none"> • Notify Dig Safe and all non-member utilities prior to start • Mark all other private utilities; maintain markings • Follow 18” rule for locating utilities: Use hand tools to dig within 18” of the marked line until the utility is exposed.
Excavate trench, install water line (push on or mechanical fittings) and backfill trench	Overhead electrical or telephone lines	<ul style="list-style-type: none"> • Follow the 10’ overhead clearance rule
	Being hit or struck by machine or excavation	<ul style="list-style-type: none"> • Maintain eye contact with excavator operator • Maintain safe distance from excavator and bucket at all times • All personnel should be out of trench when backfilling
	Cave-in of trench or test pit	<ul style="list-style-type: none"> • Use proper sloping or shoring while locating utilities and excavating pipe trenches • Do not enter trench until it is properly sloped or shored

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Excavate trench, install water line (push on or mechanical fittings) and backfill trench continued	Rocks and dirt rolling into trench or test pit	<ul style="list-style-type: none"> • Spoil pile must be at least 2' from edge of excavation
	Tools or supplies falling into trench or test pit	<ul style="list-style-type: none"> • Keep trench or test pit area clean of all debris; keep tools and supplies well away from the edge
	Person falling or tripping into trench or test pit	<ul style="list-style-type: none"> • Good housekeeping around excavation • Berm and barricade excavation • Keep non-essential personnel away from the hole • Use a quality ladder of sufficient size to access excavations more than 4' deep • Never walk on edges of trench boxes or on spreader bars
	Rigging failure	<ul style="list-style-type: none"> • Use proper rigging and inspect before use • Be sure pipe is balanced properly when rigging
	Struck by pipe, tamp, etc.	<ul style="list-style-type: none"> • Stay clear of load being swung into trench; use a tag line for control if needed • No personnel are ever beneath a suspended load • Keep pipe at arm's length at all times during placement
	Pinch points	<ul style="list-style-type: none"> • Keep hands and body from being between pipe and shoring and between pipe ends
	Cut by pipe saw	<ul style="list-style-type: none"> • Personnel must be properly trained before using pipe saw • Proper set up of work area to safely cut pipe
	Cuts from pipe	<ul style="list-style-type: none"> • Wear gloves and face protection
	Back strain	<ul style="list-style-type: none"> • Lift properly using legs rather than back • Get help or use a machine for heavy loads
	Potential injuries when connecting to pressurized lines	<ul style="list-style-type: none"> • Valve off and depressurize line; or • Have person trained and qualified to do a live tap
	Wrench slips-hand injury	<ul style="list-style-type: none"> • Wear gloves; use proper sockets and wrenches

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Other Steps (if any):	Other Hazards:	<p>Other Safe Procedures:</p> <p>*1) If work is to be performed in a travel way, complete and follow ‘Work in Travel Way’ Job Hazard Analysis</p> <p>2) If Hazardous Materials are encountered, cease work, secure work area and notify Superintendent and/or appropriate personnel immediately</p>