

Job Hazard Analysis

(Always wear proper PPE)

Project:	Superintendent:
Task: Catch Basin & Manhole 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 • Complete and review STA's daily • Assess location and conditions*
Proper Layout		<ul style="list-style-type: none"> • Review plans and specs
Excavate and backfill for the structure	Damage to existing buried utility lines	<ul style="list-style-type: none"> • Notify Dig Safe prior to starting and maintain marks • Notify other private utilities to mark their lines • Follow 18" rule for locating utilities: Use hand tools to dig within 18" of the marked line until the utility is exposed
	Damage to overhead lines	<ul style="list-style-type: none"> • Follow the 10' overhead clearance rule
	Cave in of trench or test pits	<ul style="list-style-type: none"> • Use proper sloping or shoring while locating existing utilities and installing structure
	Struck by object falling into excavation	<ul style="list-style-type: none"> • Spoils pile must be at least 2' away from edge of excavation • Keep work area clean: pick up all debris, tools, and supplies

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Excavate and backfill for the structure continued	Falling or tripping into trench test pit	<ul style="list-style-type: none"> • Berm and barricade excavation to keep people away from the edge • Use bridge with railings when crossing trench
	Struck by trucks or equipment	<ul style="list-style-type: none"> • Back-up or travel alarms must be functioning • Maintain eye contact with the operator and keep a safe distance • Stay out of blind spots
	Struck by excavated or dumped materials	<ul style="list-style-type: none"> • Keep people away from trucks during loading and dumping operations.
	Water in excavation	<ul style="list-style-type: none"> • Dewater (see dewatering JHA) if water is present.
Install structure	Rigging Failure	<ul style="list-style-type: none"> • Competent Person uses proper rigging and lifting beam rated for the weight of the structure. • Inspect all rigging equipment prior to use. • Inspect structure for defects (cracks) especially near lift points.
	Lift pins become dislodged	<ul style="list-style-type: none"> • Be sure to use proper lift pins for the structure.
	Struck by structure: Pinch points	<ul style="list-style-type: none"> • Maintain arm's length from structure at all times. • Avoid being between structure and any other objects such as shoring or other sections of structure. • No personnel are allowed in the hole while the structure has been lowered to within 1 foot of the ground or lower section. • When stacking structure, mark the outside of the structure in some way for proper alignment. Never align sections from the inside.
	Falls from height	<ul style="list-style-type: none"> • Use an inspected ladder of sufficient size in excavations over 4' in depth. Be sure ladder is secured from movement. • Use barricades or other means to keep non-essential personnel away from top of excavation.

Step	Potential Hazards	Safe Procedures/ Crew Responsibilities
Install structure continued	Entering a structure that has been backfilled or has piping installed	<ul style="list-style-type: none"> • Fill out Confined Space Entry form. • Monitor air quality. • Follow Confined Space Entry procedures in HASP.
Other Steps (if any):	Other Hazards:	Other Safe Procedures: