

Author:	Div. 10 Ryan R. Starnes	Revision #:	2
Approved by:	Chris Peoples	Date Issued:	January 2023

SAFE OPERATING PROCEDURES

Precast Box Culvert Installation

SOP 11B-64

Hazard Review		
Trench Collapse	Moving Equipment	Overhead Loads
Utilities	Slip, Trip and Fall	Confined Space
Lifting	Weather (flooding)	Pitch Points
Falling Objects	Crushing Hazards	Concrete Cutting (Silica)
Poor Ventilation	Poor Visibility	Crushing Hazards
Required Personal Protective Equipment (PPE) (Based on job specific hazard review)		
Safety Shoes	Safety Vest Gloves	Hard Hat
Safety Glasses	Gloves	Hearing Protection
Respiratory Protection		

1. Review Safe Operating Procedures for applicable equipment and perform pre-operational checks.
2. Determine the traffic control needs from the Work Zone Safety Handbook.
3. Park in areas that: Provide safe entrance and exit of the work area; do not create potential conflicts with other vehicles and equipment operating in the work area; and provide maximum protection for workers getting in and out of the vehicles.
4. Avoid walking and working under suspended loads. Hard hats must be worn when working around backhoes, cranes, excavators, etc.
5. Employees on foot must use extreme caution to stay clear of operating equipment. Always establish eye contact with the operator before approaching equipment.
6. Proper lifting techniques shall be used. Get help or use equipment if necessary.
7. Be aware of escape routes in case of emergency.
8. Be aware of loose materials, excavation drop-off, tripping hazards and other obstructions.
9. Allow ample space for each employee to work safely.
10. Locate all utilities in and near work site prior to commencing work.
11. Be aware of poisonous plants, insects and snakes. It is a good practice to wear long sleeve shirts, gloves and high-top boots when hazards cannot be avoided.
12. Keep walk spaces and work areas free from loose materials or tools.
13. Review SDS for all hazardous materials being used or expected to be encountered.
14. Dispose of salvage materials properly; use gloves and long sleeve shirts when handling treated timbers.
15. Be aware of pinch points and crushing hazards.
16. Take extra precautions to prevent heat and cold stress when working in extremely hot or cold temperatures.
17. Employees should wash hands before eating, drinking or smoking.

18. Review Concrete Saw cutting SOP and go over Silica exposure plan.
19. Provide suitable PPE as required and make sure it's used correctly.
20. Suitable monitoring equipment will be required when known exposure to toxic substance or lack of oxygen may occur.
21. Ladders will need to be provided for safe access/egress.

Related SOP's

General SOPs.....Chapter 10	Excavating, Trenching and Shoring 11E-3
Explosives 11E-4	Rigging..... 11E-9
Crane/Dragline..... 12A-4	Truck, Crew Cab and Flatbed12A-29
Compactor, Hand-Operated..... 12B-5	Hand Tools (Power and Manual)12B-13
Trailers and Towed Equipment.. 12B-30	