

Job Hazard Analysis (JHA)

Task: Construction Landscaping Repairs in the Telecom Industry

Risk Assessment Code (RAC) Legend

- **☒ Red (High Risk):** Unacceptable—stop work and implement controls before proceeding.
- **☑ Yellow (Moderate Risk):** Proceed with caution—implement and verify controls.
- **☐ Green (Low Risk):** Acceptable—maintain controls and continuous monitoring.

Overall Initial RAC for Construction Landscaping Repairs Task: ☑ Moderate Risk

Job Steps, Hazards, and Controls

Step No.	Task Description	Potential Hazards	Controls / Safe Work Practices	Initial RAC
1	Pre-job planning & scope review	Missing restoration specs; lack of permits; inadequate site assessment	Conduct tailboard/JSA meeting; review restoration requirements and permits; verify property lines and easements; assign stop-work authority.	☑
2	Material staging (soil, sod, seed, mulch, stone, tools, equipment)	Struck-by moving materials; trip hazards; manual lifting strain	Stage on level ground; keep walkways clear; use wheelbarrows/mechanical aids; stack safely; maintain housekeeping.	☑
3	Traffic control setup (if landscaping near roadway/sidewalk)	Vehicle strikes; inadequate signage; pedestrian exposure	Deploy MUTCD-compliant traffic control; cones, barricades, advance warning signs; certified flaggers if needed; ANSI/ISEA 107 high-visibility garments.	☑
4	Clearing debris and prepping site	Cuts/lacerations; exposure to nails, glass, or sharp debris	Wear cut-resistant gloves; use tools instead of hands; dispose of debris in approved containers; maintain exclusion zone.	☑
5	Grading and leveling ground	Musculoskeletal strain; slips/trips; struck-by hand tools	Use ergonomic tools; rotate workers; maintain proper posture; wear slip-resistant boots; keep tools organized.	☑
6	Moving soil, mulch, or stone	Ergonomic strain; dust inhalation; struck-by equipment	Use wheelbarrows or loaders; do not overload; wear dust masks as needed; spotter present when using mechanized equipment.	☑

Step No.	Task Description	Potential Hazards	Controls / Safe Work Practices	Initial RAC
7	Installing sod, seed, or plants	Ergonomic strain; repetitive motion injuries; pesticide/fertilizer exposure	Use proper lifting techniques; kneeling pads; rotate tasks; follow SDS for fertilizers/pesticides; wear gloves and eye protection.	?
8	Compacting or tamping soil	Noise; vibration; struck-by compaction equipment	Wear hearing protection; anti-vibration gloves; maintain exclusion zone; inspect compaction tools.	?
9	Watering and irrigation setup	Slips on wet surfaces; hose entanglement	Route hoses away from walkways; post "slippery" signage; coil hoses neatly after use.	?
10	Replacing or repairing fencing/landscape edging	Cuts from tools; struck-by posts or materials	Wear cut-resistant gloves; use proper post drivers; maintain stable footing; barricade area if near pedestrian paths.	?
11	Restoring asphalt/concrete adjacent to landscape	Silica dust from cutting; heavy lifting; struck-by equipment	Use wet cutting methods; wear respirators if dry cutting unavoidable; team lift heavy materials; certified operator for saws/compactors.	?
12	Weather/environmental conditions	Heat stress, cold stress, lightning, slippery ground	Provide hydration and shaded rest breaks; thermal PPE in cold; suspend work during lightning; de-ice surfaces as needed.	?
13	Housekeeping and debris removal	Slips/trips; improper waste disposal	Clean as you go; remove waste daily; store unused materials safely; verify restoration area safe before demobilization.	?
14	Removing traffic control & demobilization	Vehicle strikes during removal	Remove devices in reverse order; maintain flaggers until last cone removed; final walkdown inspection.	?
15	Documentation & turnover	Missing records; rework; regulatory non-compliance	Record restoration type, dimensions, and materials used; photograph before/after; update as-builts; provide to owner/utility.	?

PPE Requirements

- **Head/Face/Eye:** Hard hat (ANSI Z89.1) when working near equipment; safety glasses (ANSI Z87.1) for debris handling and tool use.
- **Hearing:** Hearing protection when operating compactors, saws, or other noisy equipment (>85 dBA).
- **Hands:** Cut-resistant gloves for debris/tools; chemical-resistant gloves when using fertilizers/pesticides.
- **Feet:** Safety-toe boots with slip-resistant soles.
- **High-Visibility Apparel:** ANSI/ISEA 107 Type R, Class 2 (day) or Class 3 (night/high-speed).
- **Respiratory:** Dust mask for soil/mulch dust; respirator when cutting concrete/asphalt.

- **Weather-Specific:** Rain gear, thermal clothing, UV protection as applicable.
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Regulatory & Industry Practice Alignment (summary)

- **OSHA:** 29 CFR 1926 Subpart E (PPE), Subpart O (Motor Vehicles/Mechanized Equipment), Subpart M (Fall Protection if near drop-offs), Subpart Z (Hazardous Substances—fertilizers, pesticides, silica).
- **NIOSH:** Best practices for ergonomic lifting, heat/cold stress prevention, and silica dust exposure control.
- **ANSI/ISEA:** ANSI/ISEA 107 (high-visibility apparel), ANSI Z87.1 (eye protection), ANSI Z89.1 (head protection).
- **NESC:** Clearance/separation standards if landscaping occurs near telecom or electrical infrastructure.
- **MUTCD:** Work zone traffic control requirements for landscaping near roadways.