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| Construction Services Group, Inc.Activity Hazard Analysis (AHA) |
| Activity/Work Task: **Demolition of fire alarm system and install new alarm system** | **Risk Assessment Code (RAC) Rating Matrix** |
| Project Location:  |
| Contract Number: | **Severity** | **Probability** |
| Date Prepared:  |
| Prepared By:  | **Frequent** | **Likely** | **Occasional** | **Seldom** | **Unlikely** |
| QC/SSHO:  | **Catastrophic**  | E | E | H | H | M |
| Superintendent:  |
| Subcontractor: VSC | **Critical** | E | H | H | M | L |
| Subcontractor Forman:  |
| Reviewed by (Name/Title): | **Marginal** | H | M | M | L | L |
| **Notes:** (Field Notes, Review Comments, etc.)VSC Supervisor will review Lock out Tag out procedures and verify deactivation with GC prior to demolition of electrical wiring, conduit and alarm equipment.VSC must verify GC or client has properly notified fire department or alarm monitoring sources before deactivating the alarm system.  |
| **Negligible** | M | L | L | L | L |
| Step 1: Review each “Hazard” with identified safety “Controls” and determine RAC rating (above).  |  |
| “Probability” is the likelihood to cause an incident, near miss, or accident and identified as: Frequent, Likely, Occasional, Seldom or Unlikely. | RAC Rating |
| Severity” is the outcome/degree if an incident, near miss, or accident did occur and identified as: Catastrophic, Critical, Marginal, or Negligible  | E = Extremely High Risk |
| H = High Risk |
| Step 2: Identify the RAC (Probability/Severity) rating as E, H, M, or L for each “Hazard” on AHA. Annotate the overall highest RAC at the top of AHA. | M = Moderate Risk |
| L= Low Risk |
| Job Steps (Work Sequences) | Specific Anticipated Hazards | Controls | RAC |
| * Common hazards present in all work activities.
* ***Housekeeping / General job site conditions.***
 | 1. Slips, trips and falls
2. Falling objects. (dropped tools, equipment or material)
3. Struck-by
4. Insufficient lighting
5. Material Handling (back & upper body strain)
6. Pinch points, contusions, lacerations, and abrasions
7. Flying or projected debris/foreign body in the eye
8. Falls from heights
 | 1. Visually survey work zones & accessways for trip hazards, obstructions and physical contact with client’s employees. Maintain housekeeping of material and debris. ***Immediately notify the G/C of such conditions.***
2. Use tethers, secure items or two-person rule when working overhead. Barricade or post spotter beneath overhead work as needed. Do not leave loose object unattended overhead or on ladders.
3. Carry large and elongated material and equipment with two persons to avoid physical contact with other people.
4. Use temporary or portable lighting as needed.
5. Use proper lifting techniques, two persons carry and material handling equipment (tools carts, forklift) as needed.
6. Be aware of pinch points and sharp edges when handling material & equipment. Wear type II cut resistant gloves.
7. Safety glasses and hardhat worn at all times. Goggles or face shields as needed.
8. Use ladders of appropriate heights. Inspect ladder prior to each use. PFAS as needed
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| Job Steps (Work Sequences) | Specific Anticipated Hazards | Controls | RAC |
| * Demolition and disposal of System.
* Unload pipe, wire, and equipment from truck and distribute materials to proper lay-down locations.
 | 1. Back Injury
2. Struck-by, trip hazards
3. Slips, trips and falls
4. Struck by falling /rolling objects
5. Electrical shock hazards
 | 1. Use proper lifting techniques, two persons carry and material handling equipment (tools carts, forklift) as needed.
2. Do not allow material e.g. conduit, wire, debris to accumulate. Transport items to designated dumpster as demolition progresses.
3. Visually survey the area prior to work. Identify possible hazards. Remove/re-route obstacles/hazardous conditions from pathway. Use handrails.
4. Wear adequate PPE hard hats, gloves approved steel toe construction boots.
5. Implement Lock out tag procedures prior to removal of existing conduit and wring.
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| Equipment to be Used | Training Requirements/Competent or Qualified Personnel name(s) | Inspection Requirements | **L****L****L** |
| Hard hat, gloves, steel toe construction boots, gloves, barricades where needed |  | Daily jobsite walk around Daily Inspect prior to useDaily, keep work Area Clean |
| Job Steps (Work Sequences) | Specific Anticipated Hazards | Controls | RAC |
| * Installation of System Panel Equipment , Conduit & Wire
* Using Drill for Strapping, Cutting Holes, Wrenches and Channel Locks, Working off of ladders
 | 1. Sever electric conduit in floor slab, or Wall
2. Flying or projected debris/foreign debris in the eye
3. Falls from heights
4. Falling objects (core slug).
5. Material Handling & Back safety
6. Pinch points, contusions, lacerations, and abrasions
 | 1. Inspect for Existing Work, If Questionable, Verify with Project GC
2. Safety protective goggles.
3. Use ladders of appropriate heights. PFAS as needed. Report missing or damaged guardrails to GC.
4. Report uncovered holes or improper covers in floors to GC immediately. Toe boards were required. Barricade work zone or post spotter as needed.
5. Use proper lifting techniques, two persons carry and material handling equipment (tools carts, forklift) as needed.
6. Be aware of pinch points and sharp edges when handling material & equipment. Wear type II cut resistant gloves.
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| Equipment to be Used | Training Requirements/Competent or Qualified Personnel name(s) | Inspection Requirements | **L****L****L****L****L****L** |
| Ladders100% GFCI on all electric cords and tools,Pipe thread, possible |  | Daily jobsite walk around Daily Inspect prior to useDaily, keep work Area Clean |
| Job Steps (Work Sequences) | Specific Anticipated Hazards | Controls | RAC |
| * Installation of System Devices
* Connecting Head End Equipment
* Using Hand Tools, & Ladders
 | 1. Back Injury
2. Slips, trips and falls
3. Pinch points, contusions, lacerations, and abrasions
 | 1. Be aware of potential for back strain/injury due to constant bending.
2. Visually survey the area prior to work. Identify possible hazards. Remove/re-route obstacles/hazardous conditions from pathway. Use handrails.
3. Wear adequate PPE hard hats, gloves approved steel toe construction boots.
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| Equipment to be Used | Training Requirements/Competent or Qualified Personnel name(s) | Inspection Requirements | **L****L****L** |
| Hard hat, gloves, steel toe construction boots, gloves, barricades where needed |  | Daily jobsite walk around Daily Inspect prior to useDaily, keep work Area Clean |
| Job Steps (Work Sequences) | Specific Anticipated Hazards | Controls | RAC |
| * Make System Active
 | 1. Electrical Shock
2. Slips, trips and falls
 | 1. Test, Circuitry before Working on, Lock Out, Tag Out, as needed.
2. Maintain housekeeping in walkways and work zones
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| Equipment to be Used | Training Requirements/Competent or Qualified Personnel name(s) | Inspection Requirements | **L****L** |
| Hard hat, gloves, steel toe construction boots, gloves, barricades where needed |  | Daily jobsite walk around Daily Inspect prior to useDaily, keep work Area Clean |
| Job Steps (Work Sequences) | Specific Anticipated Hazards | Controls | RAC |
| * Testing and Commissioning
* Using Ladders, Canned Smoke & CO, Meters,
 | 1. Back Injury
2. Slips, trips and falls
 | 1. Be aware of potential for back strain/injury due to constant bending.
2. Use ladders of appropriate heights and inspect prior to each use. PFAS as needed.
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| Equipment to be Used | Training Requirements/Competent or Qualified Personnel name(s) | Inspection Requirements | **L****L** |
| Hard hat, gloves, steel toe construction boots, gloves, barricades where needed |  | Daily jobsite walk around Daily Inspect prior to useDaily, keep work Area Clean |
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**Competent Person:**

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Name & Title Signature Date**

**Reviewer/CQ/SSHO:**

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