



**SCOPE OF WORK  
SSRL TRAILER DEMOLITION  
March 2023**

| Revision | Date           | Description of Changes                               |
|----------|----------------|--|
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**Approvals:**

|   |  |           |      |
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## 1 GENERAL

This Statement of Work describes the demolition and disposal of 6 trailers as base scope: 270, 271, 294, 451, 452, & 453. The Subcontractor shall provide all labor, materials, and equipment to complete the work described herein.

## 2 HAZARDOUS MATERIAL ABATEMENT

Lead, PCB, and asbestos surveys for Trailers 270, 271, 294, 451, 452, and 453 are provided as supplemental documents with results summarized below. The subcontractor shall abate all hazardous materials before demolition and coordinate with the SLAC Field Construction Manager (FCM) and the SLAC Hazardous Waste group for transport and disposal.

NOTE: The abatement for Trailer 451 and Trailer 452 has already been performed and completed.

- a. Trailer 270: Asbestos was detected in the white/black sealant at pipe penetrations on the roof, containing 10% chrysotile (non-friable), approximately 6 sq. ft. of material. In addition, the black/grey mastic at the gutters/roof perimeter contained 10% chrysotile (non-friable), approximately 600 sq. ft. of material. There was no Lead paint or PCBs detected.
- b. Trailer 271: Asbestos was detected in the asphalt roofing mastic, identified as non-friable chrysotile asbestos (10% concentration) in approximately 250 sq. ft of mastic. Additionally, the fire doors and frames are assumed to be asbestos containing. There was no lead paint or PCBs detected.
- c. Trailer 294: There were no asbestos-containing materials found. The wood exterior was sampled and analyzed and was found to contain 2500 sq. ft. of lead content.
- d. Trailer 451: There were no asbestos-containing materials or PCBs found. The fire doors and frames are assumed to contain asbestos. The interior Masonite paneling was sampled and analyzed and was found to be lead-containing with content between 550-940 ppm. Trailer 451 door weather stripping was sampled and analyzed and found to contain <0.050mg/kg PCBs. When demolishing Trailer 451 the exterior caulking should be segregated as a separate waste stream (Completed).

NOTE: Abatement for Trailer 451 has been completed.

- e. Trailer 452: There was no asbestos, PCB, or lead-containing materials found.  
NOTE: Abatement for Trailer 452 has been completed.

- f. Trailer 453: Fire doors and frames are assumed to be asbestos containing. There were no PCBs or lead paint present.
- g. Treated lumber shall be classified as Class I hazardous waste. Refer to section 017419 for more information.

### 3 SCOPE OF WORK – DEMOLITION

- a. Demolish trailers 270, 271, 294, 451, 452, & 453 and associated support structure as noted. Complete demolition, dismantling, and removal as identified in Attachment 1.
- b. The Subcontractor shall verify field conditions and include the removal of all support structures, steel beams, and piers present.
- c. Coordination with SLAC Facilities Operations, Field Construction Manager (FCM), Environmental Safety and Health (ES&H), and Radiation Protection (RP).
- d. All waste removed (trailer waste and other waste) shall be surveyed by SLAC ES&H and RP prior to removal from SLAC. All work shall be coordinated with SLAC's Field Construction Manager and SLAC Waste Management for the management and disposal of waste. Refer to sections 017419 and 013543.
- e. Coordinate with SLAC FCM to have SLAC Operations lock out and tag out (LOTO) all energized utilities, put them in a safe state, and demolish per scope after SLAC provides all clear. SLAC will LOTO utilities and ensure a physical separation (air gap) is made between the utility and the point of connection.
- f. Electrical conductors, conduit, and electrical panels serving Trailers 270, 271, 451, 452, and 453 shall be removed back to panel "2DP TRAILER" as shown on drawing S1020-ED7-0075.
- g. Electrical conductors, conduit, electrical panels, disconnects, and transformer serving Trailer 294 shall be removed back to the junction box as shown on drawing S1020-ED7-0075.
- h. "2DP TRAILER" and its associated transformer and disconnect shall remain for future use.
- i. The cable tray, under the trailers, shall be demolished if empty. If the tray is not empty, the contractor shall work with the PM, FCM, and the SLAC network team to determine if the cables can be removed.

- j. The domestic water/fire water connections shall be demolished back to a lateral to ensure that a dead leg is not created. The trailers shall be drained of domestic water and fire water prior to demolition by internal SLAC shops.
- k. The Subcontractor shall remove the HVAC units.
- l. The Subcontractor shall provide Erosion Control installation:
  - i. Install 12" dia. Coir wattle/logs – 5 each row along the slope
  - ii. Dig into the soil 3" deep along the length of the slope (soil to be placed above the trench for reinstallation)
  - iii. Install Coir wattle/logs (12" dia. x 10' long)
  - iv. Stake in Coir wattle logs with 2' wooden stakes - every 3' and on ends
  - v. Backfill above Coir wattle/logs to be level with the top of wattle/log.
  - vi. Clean up as needed
  - vii. This will be left onsite to minimize erosion should the land remain vacant for an extended period

#### 4 GENERAL NOTES

- a. The Subcontractor shall substantially complete all work prior to September 29th, 2023, during SSRL downtime (8/15/23 through 9/29/23, to avoid any vibration impacts to science. Any extension beyond September 29th, 2023 must be approved by SLAC in advance.
- b. As part of this proposal, the Subcontractor shall provide a schedule to show the phases of work for SLAC's review.
- c. The Subcontractor shall visit the job site to get acquainted with existing conditions and be responsible for clarifying all questions related to the contract prior to bidding.
- d. The Subcontractor shall protect the area including the utilities designated to remain, surrounding landscape, and trees from damage, which may occur from demolition, dust, water, etc.
- e. The Subcontractor shall attempt to preserve existing underground utilities. If damaged, the Subcontractor shall make any and all repairs, as necessary. Utilities, to the best of SLAC's ability, will be located, however, it will be the contractor's responsibility to verify prior to any excavation.

- f. The Subcontractor shall provide and maintain construction fences around the work site, as required to limit access and protect the public during the period of demolition. Damage to the area, new and existing materials, structure, and equipment shall be repaired or replaced to the satisfaction of the owner at the expense of the Subcontractor.
- g. The Subcontractor shall be responsible for leaving all areas in a clean condition.
- h. Any work involving the hoisting and rigging of any trailer or associated components must have an approved SLAC Hoisting and Rigging Plan, prior to the start of work. Refer to section 010000.
- i. The Subcontractor shall notify the SLAC FCM if any digging is to occur. An approved SLAC Excavation Permit is required prior to the start of work. Refer to sections 010000 & 013543.
- j. The Subcontractor shall prepare and receive SLAC approval for an Elevated Surface Work Plan prior to the start of any work that requires workers to access the roof of the trailers. Refer to sections 010000 & 013100.
- k. The Subcontractor shall promptly report all discrepancies, errors, and omissions to SLAC's Project Manager (PM) prior to starting the affected work.
- l. The Subcontractor shall refer to section 010000 for standard work hours and limitations.
- m. All recyclable materials will be recycled by SLAC Salvage Department working with the FCM on the site. The contractor shall make all arrangements to deliver all salvaged materials to the SLAC Salvage yard. All other types of demo debris, and soils, should be handled by the subcontractor through SLAC's Waste Management and RP Departments, for their review of materials before contractor takes materials off site for disposal.
- n. The Subcontractor shall comply with requirements for achieving a minimum salvage/recycling rate of 75% for non-hazardous waste. The Subcontractor shall prepare a Waste Management Plan and a Waste Reduction Report. Refer to section 017419.
- o. The Subcontractor shall prepare a complete traffic control plan indicating the impact for SLAC security review and approval prior to hauling. The North Gate (Sand Hill Road) is approved for site access hauling.
- p. The Subcontractor shall prepare an Erosion and Sedimentation Control Plan for review prior to starting work. This plan shall show the work area and stormwater

Building Manager Programs (BMPs) to protect downstream catch basins and/or culverts.

- q. The Bay Area Air Quality Management District (BAAQMD) requires notification of all demolition projects at least 10 working days before work begins. Forms are available on the BAAQMD website: <http://www.baaqmd.gov/>. The Subcontractor is responsible for completing the form's top half, signing on page 2, and then forwarding them to the SLAC Air Quality Program Manager for submission to the BAAQMD.

## 5 SCHEDULE

### a. Period of Performance

| <b><u>Milestones</u></b>     | <b><u>Required Completion Dates after Contract award</u></b> |
|------------------------------|--|
| RFP out to Contractor        | 6/16/23  |
| RFP back to SLAC             | 7/14/23  |
| NTP issuance                 | 7/28/23  |
| Pre-construction/ Onboarding | 7/14/23  |
| Construction Start           | 9/7/23   |
| Project Completion           | 9/22/23  |

b. Contractor to provide a written construction schedule outlining tasks and resources necessary to execute quality work with safety as a priority within the schedule constraints outlined in this section. A preliminary schedule shall be included in the proposal for completion of the entire base scope of work.

## 6 SLAC'S RESPONSIBILITY

SLAC will:

- a. Disconnect, air gap, and mark for removal, all utilities.
- i. The electrical feeder conductors will be physically disconnected and removed at the source end.
- ii. The electrical conductors will be pulled out of the distribution panels and conduit entry holes plugged.

- iii. Any remaining electrical conduits will be capped and labeled as “Disconnected State.”
- iv. The water supply to each trailer will be air gapped.
- v. Process piping will be physically disconnected, vented, drained, and removed as close as possible to the point of supply to minimize the length of any dead legs at the source.
- vi. Any remaining branch lines will be labeled as “Disconnected State”.
- vii. The sanitary sewer connection to each trailer will be air gapped.
- viii. The communications cabling will be demolished back to the source.
- b. Remove refrigerant and compressor from existing wall-mounted HVAC units prior to demolition.
- c. Disconnect the FACP and remove specific components as spare parts.
- d. Remove and disconnect the source panel.
- e. Retrieve all fire extinguishers after the air gap.
- f. Conduct a radiological survey of any materials inside trailers prior to removal, then conduct an internal and external survey on the empty trailers prior to demo.
- g. Remove the electrical light ballasts for disposal.
- h. Post DO NOT ENTER signage with the point of contact information on the trailers when utilities are air gapped.

## 7 REFERENCED STANDARDS

The project shall be executed in accordance with the most current applicable codes and regulations as adopted by SLAC.



| <b>BIO Adopted Codes and Standards</b>  | <b>Responsible Person</b> | <b>Edition</b>                            |
|---|---------------------------|---|
| DOE Order 420.1C, Facility Safety, Attachment II, Facility Safety Requirements, Chapter 2, Fire Protection <sup>1</sup>   | R. Kerwin                 | C, Change 3                               |
| DOE Standard 1066-2016, Fire Protection   | R. Kerwin                 | 2016                                      |
| California Building Code  | M. Matthews               | 2022                                      |
| California Plumbing Code  | M. Matthews               | 2022                                      |
| California Mechanical Code  | M. Matthews               | 2022                                      |
| Architectural Barriers Act Accessibility Guidelines (ABA), Section 504 of the Rehabilitation Act of 1973, and—for use with Chapter 11 of CBC—technical requirements of ADA Standards for Accessible Design. | K. Brenton                | 2010 ADA & ABA & CBC Chapter 11           |
| California Energy Code (aka T24 Energy standards)   | R. Atapattu               | 2022                                      |
| California Fire Code  | R Kerwin                  | 2022                                      |
| NFPA 1, Fire Code   | R. Kerwin                 | 2021                                      |
| NFPA 101, Life Safety Code  | R. Kerwin                 | 2021                                      |
| NFPA 70, National Electric Code   | D. Stickney               | 2023                                      |
| NFPA 70E, Electrical Safety in the Workplace  | D. Stickney               | 2021                                      |
| All Other NFPA Standards <sup>2</sup>   | R. Kerwin                 | Most recent published edition, up to 2023 |
| Subset of Title 8 (Cal/OSHA Regulations), as per ESH Manual Chapters  | C. Fried or designee      | Current                                   |
| SLAC ESH Manual. with referenced standards <sup>3,4</sup>   | Various Program Owners    | Current                                   |

## Table Notes:

1. As contractually adopted through SLAC 2021 Site Compliance Plan for Order 420.1C, Change 3. SLAC also operates directly under the legal requirements of 10CFR 851, as modified by the RWG contract.
2. National Fire Protection Association (NFPA) standards not listed above are applied as of January 1st of the year of the Edition, with the exception of NFPA 5000 (NFPA Building Code), which is not adopted by SLAC.
3. Applicable standards cited in the SLAC ESH Manual are included in the review process.
4. Note that referenced standards cited in California Building Code (CBC) Chapter 35 are used at SLAC in addition to the ones cited in the SLAC ESH Manual (and this document). Where conflicts arise, the SLAC reference takes precedence.

## 8 ATTACHMENTS

| <u>Item No.</u> | <u>Document Number</u> | <u>Drawing/Document Name</u>                                 |
|-----------------|------------------------|--|
| 1               | S1020.2023.01          | Trailer 270, 271, 294, 451, 452, 453 SSRL Trailer Demolition |
| 2               | Section 010000         | General Requirements   |
| 3               | Section 012613         | Requests for Information                                     |
| 4               | Section 012900         | Payment Procedures   |
| 5               | Section 013100         | Project Management and Coordination                          |
| 6               | Section 013119         | Project Meetings   |
| 7               | Section 013523         | Owner Safety Requirements                                    |
| 8               | Section 013543         | Environmental Procedures                                     |
| 9               | Section 013553         | Security Procedures  |
| 10              | Section 014200         | References   |
| 11              | Section 015000         | Temporary Facilities & Controls                              |
| 12              | Section 015639         | Temporary Tree and Plant protection                          |
| 13              | Section 017419         | Construction Waste Management and Disposal                   |
| 14              | Section 017700         | Closeout Procedures  |
| 15              | Section 0241133        | Selective Site Demolition                                    |
| 16              | Section 028200         | Asbestos Remediation   |

|    |                   |  |
|----|-------------------|--|
| 17 | Section 311000    | Site Clearing  |
| 18 | CP-SPEC-ESH-16325 | <a href="#">SLAC Construction Safety Requirements Manual</a> |
| 19 | NA                | Asbestos Lead PCB Summary                                    |
| 20 | NA                | Trailer LBP-PCB Survey_September2019_Final Report            |