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**** WARNING ** WARNING ** WARNING ** WARNING ****
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May 16, 2008

09-Iny-5709
09-317204

Addendum No. 1

Dear Contractor:

This addendum is being issued to the contract for Building Construction adjacent to INYO COUNTY IN INDEPENDENCE AT THE INDEPENDENCE MAINTENANCE STATION 665 NORTH EDWARDS.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on May 30, 2008.

This addendum is being issued to revise the Notice to Contractors Instructions to Bidders General Conditions and Special Provisions and provide a copy of the Information Handout.

In the Special Provisions, Division 1, "GENERAL REQUIREMENTS" Subdivision 1.08, "OBSTRUCTIONS," the first paragraph is revised as follows:

"Attention is directed to Sections 5-1.02, "Protection and Use of Property," 5-1.03, "Indemnification and Insurance," and 5-1.06, "Responsibility for Utilities," of the General Conditions and these special provisions."

In the Special Provisions, Division 1, "GENERAL REQUIREMENTS" Subdivision 1.09, "PRESERVATION OF PROPERTY," the first paragraph is revised as follows:

"Attention is directed to Sections 5-1.02, "Protection and Use of Property," 5-1.03, "Indemnification and Insurance," 5-1.05, "Contractor's Responsibility for the Work," and 5-1.06, "Responsibility for Utilities," of the General Conditions."

In the Special Provisions, Division 1, "GENERAL REQUIREMENTS" Subdivision 1.15, "REFERENCES," the first paragraph is revised as follows:

"Attention is directed to Section 1-1.31, "Abbreviations," of the General Conditions."

In the Special Provisions, Division 1, "GENERAL REQUIREMENTS" Subdivision 1.16, "PROJECT INFORMATION," the following paragraph is added after the first paragraph.

"Information included in the Information Handout provided to bidders and Contractors is as follows:

A. Asbestos and Deteriorated Lead-Containing Paint Survey."

Addendum No. 1
Page 2
May 16, 2008

09-Iny-5709
09-317204

In the Special Provisions, Division 2, "SITEWORK" Subdivision 2.03, "ASBESTOS ABATEMENT," is replaced as attached.

In the Special Provisions, Division 2, "SITEWORK" Subdivision 2.04, "LEAD ABATEMENT," is replaced with "LEAD RELATED CONSTRUCTION WORK" as attached.

To Proposal and Contract book holders:

Attached is a copy of the Information Handout.

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the proposal.

Submit bids in the Proposal and Contract book you now possess. Holders who have already mailed their book will be contacted to arrange for the return of their book.

Inform subcontractors and suppliers as necessary.

This office is sending this addendum by GSO overnight mail to Proposal and Contract book holders to ensure that each receives it. A copy of this addendum is available for the contractor's use on the Internet Site:

http://www.dot.ca.gov/hq/esc/oe/weekly_ads/addendum_page.html

If you are not a Proposal and Contract book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,

ORIGINAL SIGNED BY

REBECCA D. HARNAGEL, Chief
Office of Plans, Specifications & Estimates
Office Engineer

Attachments

2.03 ASBESTOS ABATEMENT

GENERAL

This work includes removal, clean up and disposal of the below listed asbestos containing material (ACM) and asbestos containing construction material (ACCM) to the extent necessary for the building and structure demolition work of this project. The Contractor shall review all demolition plans, survey reports and field verify location and extent of materials containing asbestos related work.

REFERENCES

Codes, regulations and references applicable to asbestos abatement work include but are not limited to the following:

1. American National Standards Institute (ANSI) publications;

Z9.2-79 Fundamentals Governing the Design and Operation of Local Exhaust Systems.

A10.6-2006. Safety Requirements For Demolition Operations
2. American Society for Testing and Materials (ASTM) publications;

D1331-89 (Re-approved 2001) Surface and Interfacial Tensions of Solutions of Surface Active Agents.

E1494-92 (Re-approved 2002) Specifications for Encapsulants for Friable Asbestos-Containing Building Materials.

E1368.90 Standard Practices For Visual Inspection of Asbestos Abatement Projects.
3. Code of Federal Regulations (CFR);

29 CFR 1926.1101 "Asbestos."

40 CFR 61 Subpart A and Subpart M, USEPA, "National Emission Standards for Hazardous Air Pollutants (NESHAPS)."
4. National Fire Protection Association (NFPA):

No. 70.2005 National Electrical Code.
5. California Code of Regulations (CCR):

Title 8, Division 1, Chapter 3.2, Subchapter 2, "Regulations of the Division of Occupational Safety and Health;" Article 2.5, Section 341.6 to 341.14; "Registration-Asbestos-Related Work."

Title 8, Division 1, Chapter 4, Subchapter 7, "General Industry Safety Orders," Group 16, Article 110, Section 5203; "Carcinogen Report of Use Requirements."

Title 8, Division 1, Chapter 4, Subchapter 4, "Construction Safety Orders," Article 4, Section 1529: "Asbestos"

Title 22, Division 4.5, Chapter 10, "Hazardous Waste Management System: General."
6. Local Air Pollution Control District Regulations

EXISTING SITE CONDITIONS

A hazardous material survey report by Geocon Consultants, Inc., Project No. S9200-06-46 dated April 30, 2008, is included as an information handout. Location of asbestos containing materials and presumed asbestos containing materials from survey reports where work is performed include:

ASBESTOS CONTAINING MATERIALS				
Location	Description	Asbestos Concentration	Approximate Amount	Friable
Existing Equipment Building				
Office	12"x12" resilient floor tile with underlying tile layer and yellow mastic	5% chrysotile	150 square feet	No
Office, restrooms and storage room	Gypsum board ceiling/wall systems	<0.25% chrysotile	1800 square feet	Yes
Roof vent penetrations	Black roof mastic	10% chrysotile	12 square feet	No

TSI-Thermal System Insulation

PACM-Presumed Asbestos Containing Material

This work includes all plans, permits and the removal, transportation, storage, and disposal of all material containing asbestos as specified or shown on the plans.

Furniture and portable equipment will be removed from the area of work by the Department before any work begins.

PRECONSTRUCTION MEETING

At least 7 days before asbestos removal work commences, a preconstruction meeting shall be held at a location designated by the Engineer. Attendees shall include the Engineer, Department's Observation Service, Contractor's Competent Person, the Contractor's Project Superintendent, and others as necessary. The agenda shall include a review of project safety requirements, the Contractor's written asbestos compliance work plan, emergency contacts and notification plan, containment and work area design, facility requirements, submittals, and any other issues pertinent to the safe execution of the asbestos abatement work.

Work shall not commence until the Engineer has approved submittals and plans for asbestos abatement work.

EQUIPMENT AND MEDICAL SURVEILLANCE

Personnel protective equipment, training, and medical surveillance required by the Contractor's Health and Safety Plan shall be provided to State personnel by the Contractor. The number of State personnel will be 4. The Contractor shall comply with all Federal State and local requirements for safety which shall include providing employees with coveralls (preferably disposable plastic coated), rubber gloves (to be discarded after use), rubber boots (to be washed thoroughly after use) and appropriate respirators (to cover nose and mouth). The Contractor shall be responsible for verifying that all employees, who are involved in asbestos removal operations, wear the protective devices enumerated herein during removal operations.

SUBMITTALS

Product data

A list of manufacturer's product data, specifications, samples and application instructions and other pertinent information as necessary shall be submitted for approval.

Abatement Procedure Plans

The Contractor shall submit the following detailed plan of the work procedures for abatement of asbestos materials:

1. Federal, State and Local agencies that require notification.
2. Personal monitoring procedures.
3. Phasing of abatement work indicating daily roster of workers for each phase.
4. Security system warning signs locations.
5. Detailed plans for decontamination facilities, toilets, and systems providing intraroom and Work Area to outside communication showing connections to existing building.
6. Standard procedures for protecting workers, visitors, and employees and protection of spaces outside Work Area from contamination.
7. Engineering systems exposure control indicating number, location, and capacity of supply and exhaust systems, the expected direction of flow, and the range of expected differential pressure in each area.
8. Safety precautions such as lockout, tagout, fall protection, and confined space entry procedures and equipment and work procedures to be used in the encapsulation, removal and demolition of materials containing asbestos.

The plan shall be prepared, signed and stamped by a certified asbestos consultant.

Waste Transportation.--Submit the method of transport of hazardous waste including name, address, EPA I.D. number and telephone number of transporter.

Hazardous Waste Site.--Submit for approval the name, class, address, EPA I.D. number and telephone number of hazardous waste site(s) to be utilized for disposal.

Waste Manifest.--For Waste Manifest purposes the Generator is the facility of the subject work. Obtain necessary information for this purpose from the Engineer. Give a copy of the Waste Manifest to the State's Observation Service for each shipment of material containing asbestos. The Contractor shall submit a non hazardous waste manifest or waste shipment record (WSR) for disposal of material containing asbestos that is not classified as a hazardous waste.

Qualifications.--The following documents shall be submitted:

Registration: Submit copy of the registration for Asbestos-Related work from the Division of Occupational Safety and Health in accordance with Title 8, Article 2.5 of the California Code of Regulations.

Medical Examination: Submit proof that personnel who will be entering regulated asbestos areas have had medical examinations, and furnish the results of said exam to the Engineer and signed by the medical examiner.

Submit an employee roster to the Engineer for each Work Shift and confirm in writing within 24 hours of commencement of shift.

Land Disposal Restrictions: Submit a copy of the completed Notice and Certification with each Hazardous Waste Manifest for wastes intended for land disposal pursuant to Section 67740 of 22 CCR, Division 4.5, Chapter 45, to the Engineer and signed by the generator.

For HEPA-filtration systems exhausting externally within 15 meters of the building's air intake or entry, submit the results of on-site DOP or Portacount testing of required efficiency.

NOTIFICATIONS, COMMUNICATIONS AND POSTINGS

The Contractor shall notify the Engineer 15 days prior to the start of any abatement work.

Prior to performing operations involving the removal of material containing asbestos, the Contractor shall provide written notification to all Federal, State and local agencies that regulate the handling and disposal of material containing asbestos.

The Division of Occupational Safety and Health (CAL OSHA) shall be notified 24 hours prior to performing removal operations of materials containing asbestos.

Notification shall be in accordance with the NESHAP, 40 CFR, Part 61, Subpart M and Section 341.9 of Title 8 of California Code of Regulations.

In addition to detailed requirements of this Specification, comply with laws, ordinances, rules, and regulations of federal, state, regional, and local authorities regarding handling, storing, transporting, and disposing of material containing asbestos. Submit matters of interpretation of standards to the appropriate administrative agency for resolution before starting work. Where requirements of this Specification and reference documents vary, the most stringent requirement shall apply.

FIELD AIR SAMPLING

Personnel monitoring and other monitoring which is required by law or considered necessary by the Contractor for worker protection shall be the responsibility of the Contractor and performed by the Contractor's Competent Person. The Contractor shall disclose any interest in the firm or laboratory performing the Field Air Sampling or analysis.

EXECUTION

PROJECT PROCEDURES

GENERAL

Asbestos abatement work shall not commence until:

1. Arrangements have been made for disposal of material containing asbestos at an acceptable site.
2. Arrangements have been made for containing and disposal of waste water containing asbestos resulting from wet stripping.
3. Work areas and decontamination enclosure systems and parts of the building required to remain in use are effectively segregated.
4. Tools, equipment and material waste receptacles are on hand.
5. Arrangements have been made for building security.
6. Preparatory steps have been taken and applicable notices posted and permits obtained.
7. Differential pressure systems are installed and operating, where applicable.
8. The Contractor's submittal for the isolating of non-asbestos work areas has been reviewed and approved by the Engineer.

WORK AREAS—

WORK AREA REQUIREMENTS

All asbestos abatement shall be performed in regulated areas with access limited to the asbestos removal contractor's employees, regulating officials and Engineer until cleared.

All regulated areas require clearance testing by the Department's observation service using the Transmission Electron Microscopy (TEM) analysis method.

Mini-enclosure's shall have clearance testing in accordance with the TEM analysis method.

The department will pay for all laboratory tests necessary for clearance testing.

When performing removal work on wall or ceiling areas with unknown asbestos analysis reports, a full containment, negative pressure enclosure, 3 stage decontamination area will be required.

Shut down electric power. Provide temporary power and lighting and ensure safe installation of temporary power sources and equipment per applicable electrical code requirements and provide ground-fault interrupter circuits as power source for electrical equipment.

Shut down and isolate heating, cooling, and ventilation air systems to prevent contamination and fiber dispersal to other areas of the structure. Isolate and depressurize steam, compressed gas, hydraulics, and other pressurized systems prior to work involving piping or components in such systems. During the work, vents within the work area shall be sealed with 2 layers of 6 mil fire rated plastic sheeting sealed with tape.

Do not begin work until area is free of loose equipment.

Pre-clean fixed objects within the proposed Work Areas, using HEPA filtered vacuum equipment or wet cleaning methods, as appropriate, and enclose with protective barriers of plywood covered with minimum 6 mil fire rated plastic sheeting sealed with tape.

All stationary equipment will be pre-cleaned with a HEPA filtered vacuum and protected with a water-tight double 6 mil fire rated plastic sheeting.

Clean the proposed Work Areas using HEPA filtered vacuum equipment or wet cleaning methods as necessary to maintain fiber levels at or below 0.01 f/cc. Methods that raise dust, such as dry sweeping or vacuuming with equipment not equipped with HEPA filters shall not be used.

Seal off openings, including but not limited to corridors, doorways, ducts, grills, diffusers, and any other penetrations of the Work Areas, with 2 layers of 6 mil fire rated plastic sheeting sealed with tape. Doorways and corridors which will not be used for passage during work shall be sealed with barriers.

Cover floor and wall surfaces with plastic sheeting sealed with tape. Use a minimum of two layers of 6 mil fire rated plastic on floors. Cover floors first so that plastic extends at least 305 mm up on walls, then cover walls with a minimum of 6 mil fire rated plastic sheeting to the floor level, thus overlapping the floor material by a minimum of 305 mm. The Contractor may use additional layers to assist in protection during the replacement of materials.

Install Decontamination Enclosure System or equivalent prefabricated portable decontamination units as approved.

Maintain emergency and fire exits from work areas.

MAINTENANCE OF CONTAINMENT/NEGATIVE PRESSURE ENCLOSURE SYSTEMS

Ensure that barriers and plastic linings are effectively sealed and taped. Repair damaged barriers and remedy defects immediately upon discovery.

Visually inspect enclosures at the beginning of each work period.

Use smoke methods to test effectiveness of barriers prior to implementing asbestos removal and when directed by the Engineer. Ensure that the integrity of the enclosure system is not breached during the duration of its use.

DISPOSAL

Containers to be loaded for transportation from the holding area shall be removed by workers who have entered from unregulated areas, dressed in clean overalls. Workers shall not enter from the holding area into the wash room or the work area.

The sealed asbestos containers shall be delivered to the Contractor's pre-designated approved Hazardous Waste Site for burial; in accordance with Title 22, CCR, EPA guidelines and 40 CFR 61.156 and local Air Pollution Control District Regulations.

Notify the Engineer 48 hours in advance of the time when materials containing asbestos are to be removed from the site.

The Contractor shall be responsible for safe handling and transportation of hazardous waste generated by this Contract to the designated Hazardous Waste Site.

The Contractor shall hold the State harmless for claims, damages, losses, and expenses against the State, including attorney's fees arising out of or resulting from asbestos spills on the site or spills enroute to the disposal site.

DECONTAMINATION OF WORK AREA (GROSS REMOVAL TECHNIQUE)

After visual inspection and written notification to proceed from the State's Observation Service and after visual inspection by the State's observation Service, encapsulate surfaces where asbestos material has been removed.

Surfaces from which asbestos have been removed shall be sealed with a clear encapsulant after the surface is clean and dry. Post abatement lockdown encapsulant shall be applied using airless spray equipment.

Prepare and apply encapsulant according to the manufacturer's specifications.

Upon completion of encapsulation work, notify the Engineer in writing that encapsulation surfaces are ready for review.

The State's Observation Service shall determine that a clearance fiber count is at or below 70 s/mm² by TEM analysis following Asbestos Hazard Emergency Response Act (AHERA) protocol.

Upon proper notification, the Engineer and the State's Observation Service will review encapsulated surfaces for conformance with Specifications. Non-conformance of work shall be remedied until work is in compliance.

Upon successful compliance with review of the Engineer, and after written notification from the State's Observation Service, remove outer layer of plastic floors. Inner plastic layer and isolation barriers, vents, grilles, diffuser, etc. shall remain in place.

Wet clean or clean with HEPA vacuum equipment, surfaces within the work area. Equipment used in the work area shall be included in the clean-up and shall be removed from the work area. Decontamination enclosure system(s) shall remain during the cleaning sequence until after final air clearance.

After final cleaning operation or removal procedure notify the Engineer that the work area is ready for review and "Clearance Testing". If "Clearance Testing" shows the work area has not been decontaminated, repeat cleaning or application of encapsulant, or both, until the work area is in compliance.

After written notification from the Engineer accepting decontamination of the work area, remove inner plastic layer isolation barriers and proceed with any remaining repairs or refinish work and reestablishment of objects and systems as specified.

AIR MONITORING.—

PERIMETER AREA AIR MONITORING.—

Throughout the abatement process perimeter area air monitoring may be conducted by the State's Observation Service to ensure work is done in conformance with fiber concentration limits of these Specifications.

If perimeter area air monitoring outside the work area is in excess of 0.01 fibers/cc the Contractor shall make modifications in work procedures to assure compliance with minimum standards. Unsatisfactory results are fiber counts in excess of 0.01 fibers/cc by Phase Contract Microscopy (PCM) NIOSH 7400 method measured outside the work area as Perimeter Area Air Monitoring.

The State's Observation Service will report perimeter area air monitoring results collected outside the work area to the Engineer on the following day prior to start of work.

The Contractor shall submit the laboratory analysis report and chain of custody (COC) to the State's Observation Service of the Contractor's personal monitoring results within 48 hours following completion of that work shift. Personal air monitoring results shall not exceed the maximum use level (MUL) of the respiratory protection factor (PF) in use for asbestos.

CLEARANCE TESTING

The State's Observation Service upon completion of the visual inspection and encapsulation review form (Form A) will conduct final air clearance sampling for each work area. For the purpose of this work, clearance shall be defined as an air sample showing fiber counts at or below 70s/mm² by Transmission Electron Microscopy (TEM) analysis following the Asbestos Hazard Emergency Response Act (AHERA) 40 CFR Part 763 Appendix A to Subpart E (Transmission Electron Microscopy Analytical Method). The Contractor will be given a Clearance Testing and Asbestos Air Monitoring Notification (Form B) by the State's Observation Service.

RE-ESTABLISHMENT OF SYSTEMS.—

When clean-up is complete:

1. Re-establish HVAC including installation of new filters and disposal of used filters, and insure mechanical and electrical systems are in proper working order.

REPAIR AND PAINTING.--

Damage to finishes and other items, not scheduled for demolition or removal, as a result of work under this section shall be repaired or replaced, painted, or cleaned to match existing adjacent surfaces to satisfaction of the Engineer. Painting shall comply with the requirements under "Painting" in Division 9, "Finishes," of these special provisions.

VISUAL INSPECTION AND ENCAPSULATION REVIEWS

FORM A

PROJECT:
LOCATION:
WORK AREA (if applicable):
CONTRACTOR:

WORK ORDER NO.:
BUILDING NAME:

VISUAL INSPECTION REVIEW

In accordance with the Contract Specifications, for the referenced project, Contractor hereby certifies that all surfaces in the referenced building work area are free from all visible material and residue, and notifies the Engineer or Observation Service that the referenced area is ready for visual inspection review.

By:
(Signature)

Date:

(Print Name)

Title:

Observation Service hereby certifies that Observation Service has performed the visual inspection review of the referenced work area, and verifies that this inspection has been thorough and that all surfaces in the work area are free from all visible material and residue. Observation Service hereby notifies Contractor to proceed with the encapsulation of the abated surfaces and decontamination of the work area.

By:
(Signature)

Date:

(Print Name)

Title:

ENCAPSULATION REVIEW

Contractor hereby notifies the Engineer or Observation Service that the work area encapsulated surfaces are ready for review.

By:
(Signature)

Date:

(Print Name)

Title:

Observation Service certifies the review of the work area encapsulated surfaces was acceptable and found them to be in conformance with the Specifications.

By:
(Signature)

Date:

(Print Name)

Title:

CLEARANCE TESTING & ASBESTOS AIR MONITORING NOTIFICATION FORM B

PROJECT:
LOCATION:
WORK AREA (if applicable):
CONTRACTOR:

WORK ORDER NO.:
BUILDING NAME:

CLEARANCE TESTING CERTIFICATION

Observation Service hereby certifies that Observation Service has taken an air sample "Clearance Test" upon completion of each Work Area. Observation Service further certifies that the decontamination of the Work Area has complied with the Specifications and the air samples indicated a fiber count of at or below 70 s/mm² by TEM analysis as per AHERA protocol.

By:
(Signature)

Date:

(Print Name)

Title:

ASBESTOS AIR MONITORING NOTIFICATION

To: (Name of Facility CPO)

(Name & Location of Facility)

(Department)

In accordance with Asbestos Notification Law, health and Safety Code Section 25915, and for the above referenced project Building (Work Area, if applicable), the Real Estate Services Division (RES D) is transmitting the information herein above related to the air monitoring results conducted pursuant to Section 1529 of Title 8 of the California Code of Regulations. RES D has logged this transmittal as a part of Asbestos Program records.

If you have any questions regarding this information, contact the Project Manager.

From:

Date:

Signature of RES D Construction Supervisor

(Print Name)

2.04 LEAD RELATED CONSTRUCTION WORK

GENERAL

SUMMARY

The work shall consist of procedures for removal, repair, and disposal of lead based materials which are designated on the plans or specified in these special provisions to be removed and disposed of.

The Contractor shall take special precautions for that part of the work which involves the demolition and handling of materials which may contain lead, either during demolition or construction.

SITE CONDITIONS

The building areas to be removed are known to contain lead containing materials. A hazardous material survey report by Geocon Consultants, Inc., Project No. S9200-06-46 dated April 30, 2008, is included as an Information Handout. The following items tested positive for Lead Based Paint material:

Lead based paint		
Location	Description	Total Lead (mg/kg)
Existing Equipment Building		
Existing locker room	Gray floor paint	32
Existing Men's Room	Gray floor paint	32

Where existing lead based materials are to be removed during demolition, construction or alterations, such material may need to be treated as hazardous waste, and shall be removed, hauled and disposed of in accordance with all applicable Federal, State and local laws and ordinances.

SUBMITTALS

The Contractor shall submit to the Engineer a lead compliance plan. No work shall be done on any portion of the work which contains or may contain lead based materials until the Engineer has review and approved the submittals. The Contractor shall allow 15 days for the review of the submittals.

The plan shall be submitted as specified in Section 2-1.04, "Shop Drawings, Descriptive Data, Samples, and Alternatives," of the General Conditions.

Lead Compliance Plan

The Contractor shall prepare a project specific lead compliance plan to prevent or minimize worker exposure to lead.

The lead compliance plan shall contain the elements listed in Title 8, California Code of Regulations, Section 1532.1(e)(2)(B). The lead compliance plan shall be prepared, signed and stamped by an Industrial Hygienist certified in Comprehensive Practice by the American Board of Industrial Hygiene.

REFERENCES

Codes which govern removal and disposal of materials containing lead include, but are not limited to the following:

1. California Health and Safety Code, Division 20, Chapter 6.5, "Hazardous Waste Control."
2. California Code of Regulations, Title 17, Division 1, Chapter 11, "Occupational Lead Poisoning Prevention Program."
3. California Code of Regulations, Title 22, Division 4.5, Chapter 10, "Hazardous Waste Management System: General."
4. California Code of Regulations, Title 8, Division 1, Chapter 4, Subchapter 4, Article 4, "Lead."
5. Occupational Safety and Health Administration (OSHA), 29 Code of Federal Regulation (CFR) Part 1926.62, "Lead."

NOTIFICATION

The Contractor shall notify the Engineer 3 business days in advance of the start of removal operations of lead based material.

Prior to performing operations involving the removal of lead based material, the Contractor shall provide written notification to all Federal, State and local agencies that regulate the removal, handling, transporting and disposal of lead in construction.

The Contractor shall notify the Division of Occupational Safety and Health (CAL OSHA) 24 hours prior to performing removal operations of materials containing lead or lead based materials.

QUALITY ASSURANCE

The lead related construction work shall be supervised by a California Department of Health Services Certified Lead Supervisor. The supervisor shall be on-site during abatement work preparation and post-abatement clean-up and be readily available as required by Title 17 California Code of Regulations 36100 (A1). Personnel for lead related construction work shall be California Department of Health Services Lead Worker Certified.

REGULATORY REQUIREMENTS

If measures being taken by the Contractor are inadequate to provide for worker safety and the containment and collection of residue from existing paint systems, the Engineer will direct the Contractor to revise his operations and the compliance plans. Such directions will be in writing and will specify the items of work for which the Contractor's compliance plans are inadequate. No further work shall be performed on said items until the compliance plans are adequate and, if required, a revised compliance plan has been approved.

The State will not be liable to the Contractor for failure to approve all or any portion of an originally submitted or revised compliance program for worker safety and the containment and collection of residue from existing paint systems, nor for any delays to the work due to the Contractor's failure to submit an acceptable compliance program.

SAFETY

Construction activities (including demolition) that disturb materials or paints containing any amount of lead are subject to certain requirements of the in Title 8, California Code of Regulations Section 1532.1.

Any work that disturbs the existing paint system will expose workers to health hazards and will:

1. Produce debris containing heavy metal in amounts that may exceed the thresholds established in Titles 8 and 22 of the California Code of Regulations.
2. Produce toxic fumes when heated.

The Contractor shall be responsible for verifying that all employees, who are involved in removal operations, wear the required protective devices during removal operations.

Personal protective equipment, training, and washing facilities, required by the Contractor's health and safety plan shall be supplied to State personnel by the Contractor. The number of State personnel will be 4.

TRAINING

State personnel shall complete a safety training program provided by the Contractor, that meets the requirements of Title 8, California Code of Regulations, Section 1532.1, "Lead," and the Contractor's lead compliance program.

CONSTRUCTION

REMOVAL

Painted materials shall be removed using the wet process, vacuum blasting process or other acceptable processes that contain paint debris. Use removal equipment as necessary to remove all paint and provide clean substrate suitable for a new finish.

Removed material and water used for removal shall be collected. Removed material shall be separated from water using approved filters.

HANDLING

The Contractor shall comply with all Federal, State, and local regulations for the removal of material containing lead prior to demolition, shall place such removed material in approved plastic containers (double ply, 0.15 mm minimum thickness, plastic bags) with caution labels affixed to said bags. Such caution labels shall have conspicuous, legible lettering which spells out the following, or equivalent warning:

CAUTION CONTAINS LEAD

Temporary storage on the ground of material and residue produced when the existing paint system is disturbed will not be permitted. Material and residue shall be stored in leak proof containers and shall be handled in such a manner that no spillage will occur.

At the option of the Contractor, the removed lead based materials may be placed directly into a roll off or drop box which shall have the same caution label affixed on all sides.

TRANSPORTING

The debris shall be hauled by a transporter currently registered with the California Department of Toxic Substances Control using correct manifesting procedures and vehicles displaying current certification of compliance. The Contractor shall make all arrangements with the operator of the disposal facility and perform any testing of the debris required by the operator. All vehicles used to transport hazardous waste material shall have affixed to the vehicle a valid Certificate of Compliance issued by United States Department of Transportation. If a roll off or drop box is utilized, both the drop box and the transporting vehicle shall have a valid Certificate of Compliance issued by the United States Department of Transportation.

DISPOSAL

The Engineer will obtain the required EPA generator identification numbers, and will sign the hazardous waste manifests.

All material and residue produced during removal operations shall be tested and profiled to determine hazardous waste characteristics. Dispose of residue and waste at an approved disposal facility in accordance with the requirements of the disposal facility operator.

The Contractor shall notify the proper authorities at the disposal site in advance of delivery of hazardous waste containing lead to the disposal site.

FINAL CLEARANCE INSPECTION

Final clearance inspection wipe testing will be performed after clean-up activities are completed following Department of Health Services criteria in the California Code of Regulations Title 17.