

SECTION 02085 - NON-FRIABLE ASBESTOS CONTAINING ROOFING MATERIAL REMOVAL AND DISPOSAL

PART 1 - GENERAL

RELATED DOCUMENTS:

Drawings and general provisions of Contract, including General and Supplementary Conditions apply to work of this section.

The bulk sampling asbestos analysis report for the existing material, flashing and adhesive is furnished by the Owner from an independent testing laboratory.

The data included in the report may be used by the Contractor for his general information. The Architect and Owner will not be responsible for the accuracy of the data given therein.

The contractor shall comply with all State and Federal laws regarding the removal and disposal of non-friable asbestos containing roofing membrane materials.

All work shall comply with applicable OSHA and EPA regulations and guidelines.

Contractor Qualifications: Removal and disposal of the asbestos containing single ply roofing and flashing shall be executed by a Certified Roofing Contractor in the State of Florida who has successfully completed a minimum of a one day training course on asbestos abatement approved by the Asbestos Oversight Program Team as required by the State of Florida.

The contractor's supervisor in charge of asbestos containing material removal and disposal shall have successfully completed no less than a one day training course on asbestos abatement approved by the Asbestos Oversight Program Team as required by the State of Florida.

SUBMITTALS:

Before Start of Work: Submit the following to the Owner's Representative for review. Do not start work until these submittals are returned with Owner's Representative's action stamp indicating that the submittal is returned for use.

Copy of:

- a. Certified roofing contractor's license
- b. Certificate of completion of required training course approved by asbestos oversight team, by certified roofing contractor and contractor's supervisor
- c. Contractor's licensed asbestos consultant's name and certification

At the completion of the asbestos phase of the project: The contractor shall prepare three (3) copies of the following information:

- a. Daily activity and visitor log,
- b. All air monitoring results,
- c. All waste disposal receipts,
- d. All notification to regulatory agencies,
- e. Documentation of the supervisor's asbestos training

PART 2 - PRODUCTS

Polyethylene Sheet: A single polyethylene film in the largest sheet size possible to minimize seams, 4.0 or 6.0 mils thick as indicated, clear, frosted, or black as indicated.

Duct Tape: Provide duct tape in 2" or 3" widths as indicated, with an adhesive which is formulated to aggressively stick to sheet polyethylene.

Disposal Bags: Provide 6 mil thick minimum leak-tight polyethylene bags labeled with text as follows:

DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD

These disposal bags shall also display the required Department of Transportation labels.

PART 3 - EXECUTION

Notification: The contractor shall notify the Correctional Institution and The Department of Corrections the day before the work is to commence. Such notification may be done by telephone. Notification shall reference both the project name, building name and building number.

Supervisors: If the roofing material is asbestos containing roofing material, the workers during the removal process shall be supervised by a knowledgeable roofing person with a minimum of eight hours or one day instruction in the handling and disposal of asbestos containing roof material. The eight hours of instruction shall be an approved course as determined by the Asbestos Oversight Program Team. Documentation of supervisor's successful completion of the approved course of instruction shall be provided with his bid, to the building owner, or his representative. This person will be designated the approved supervisor.

Removal: As the roofing material is removed it shall be lowered to the ground by hoist or enclosed sealed chute. Throwing or dropping the material to the ground will not be permitted.

The workers shall be notified each day, by the approved supervisor, where the asbestos containing roofing material to be removed is located. The purpose of this requirement is to ensure its appropriate handling and disposal.

During the asbestos removal, the Owner shall retain a licensed Asbestos Consultant to monitor the work of the Contractor and collect air samples. The Contractor shall cooperate fully with the Owner's Consultant.

Monitoring: The contractor shall comply with the requirements of the Occupational Safety and Health Administration (OSHA) asbestos standard for the construction industry (29 CFR 1926.58). In addition to these requirements, the contractor shall arrange for personal monitoring to determine worker exposure to airborne fibers during the actual removal of asbestos-containing roofing material. The Contractor shall utilize a licensed asbestos consultant to conduct personnel monitoring activities. Personnel monitoring shall be conducted for the first three (3) days removal of the asbestos containing bituminous roofing and flashing materials.

If personal monitoring indicates that the 8 hour time weighted average fiber concentration exceeds the OSHA action level, or any 30 minute sample exceeds 1.0 fibers per cubic centimeter (f/cc), the contractor shall immediately notify the owner, or owner's representative. The purpose of this requirement is to provide the owner with an opportunity to discuss, with the contractor, an appropriate response to the test results.

Building Protection: All fresh air intakes within a twenty foot radius of the asbestos-containing material removal process shall be sealed, or temporarily modified to achieve the 20 foot minimum, prior to commencing removal activities.

Building Protection: All asbestos containing roofing material shall be placed in sealed trucks or other appropriate vehicles for transport to an approved disposal site. Exercise care during storage and transport.

PART 4 - PROJECT CLOSEOUT - ASBESTOS

At the completion of the asbestos phase of the project and before final payment is made, the Contractor shall provide the owner, or the owner's representative, with the items listed under Submittals of the specification section.

The contractor shall distribute copies of the information as follows:

- * Provide one copy to the Architect
MLD Architects

- * Provide one copy to Project Manager
Florida Fish and Wildlife Conservation Commission

END OF SECTION 02085