

**BOSTON CONSTRUCTION PRICING SCHEDULE OPTION YEAR 3
ASBESTOS ABATEMENT MATERIALS/EQUIPMENT — UNIT PRICING**

No.	Work Description	Units	Qty	\$/Unit	Total
	PROJECT MOBILIZATION				
A1*	Project mobilization. Glove bag only.	EA	30		
A2*	Project mobilization. Two-chamber Mini-Enclosure/Dry Decon.	EA	25		
A3*	Project mobilization. Full containment/3-Chamber Decon with Shower.	EA	20		
A4*	Project mobilization. Vinyl asbestos tile (VAT) and/or mastic removal.	EA	40		
A5*	Project mobilization. Linoleum/backing and mastic removal.	EA	11		
A6*	Project mobilization. Asbestos ceiling tile removal.	EA	2		
A7*	Project mobilization. Asbestos cement wallboard removal.	EA			
A8*	Project mobilization. Asbestos duct work removal.	EA			
A9*	Project mobilization. Asbestos roofing removal.	EA			
A10*	Project mobilization. Asbestos siding removal.	EA	1		
A11*	Project mobilization. Asbestos debris cleanup.	EA	8		
A12*	Project mobilization. Asbestos-contaminated soil removal.	EA	5		
A13	Work Plan/Site Health & Safety Plan.	EA	80		
A14	Type CE Airline Respirators.	Per job	6		
A15	Confined space entry personal protective equipment (PPE), atmospheric monitoring instruments and rescue gear (e.g., tripod/harness).	Per job	5		
A16	Confined space entry on-site rescue team.	Per job	5		
A17	Elevated Work Surfaces. Fixed scaffolding.	Per Day or Wk			
A18	Elevated Work Surfaces. Rolling scaffolding.	Per Day or Wk			
A19	Elevated Work Surfaces. Motorized (e.g., suspended) scaffolding.	Per Day or Wk	1		
A19A	Telescopic Boom Lift (40 feet)	Per Day or Wk			
A20	Pre-Cleaning of Surfaces. HEPA vacuum & wet wiping with amended water.	SF			
	DECONTAMINATION FACILITY				
A21	Decontamination System 2" x 4" @ 16", 5/8 plywood each side, 2-layers 6-mil flame retardant polyethylene (per NFPA 241) – Mini-Enclosure with Dry Decon.	EA	20		
A22	Decontamination System. 2" x 4" @ 16", 5/8" plywood each side, 2-layers 6-mil flame retardant polyethylene (per NFPA 241) – 3 Stage Personal Decontamination Chamber with tempered water shower.	EA	20		
A23	Decontamination System. Disposable 3-stage decontamination system with tempered water shower.	EA			
	CONTAINMENT CONSTRUCTION				
A24	Install and remove critical barrier with 2" x 4" @ 16" studs and 2 layers 6-mil flame retardant polyethylene sheeting (per NFPA 241) primary barrier.	SF			
A25	Sealing and protecting the work area — Covering and sealing furniture and surfaces, 2 layers 6-mil polyethylene sheeting.	SF			
A26	Sealing and protecting the work area — Protect carpeted area, 2 layers 6-mil polyethylene sheeting on ¾" plywood.	SF			
A27	Primary Barrier (Containment Wall) (5/8" plywood), 2' x 4" @ 16" — 8 ft. high.	EA			
A28	Primary Barrier (Containment Wall) (5/8" plywood), 2' x 4" @	EA	20		

	16" — 12 ft. high.				
A29	Primary Barrier (Containment Wall) (5/8" plywood), 2' x 4" @ 16" — 16 ft. high.	EA			
	ASBESTOS ABATEMENT - ENCAPSULATION	EA			
A30	Hand-apply penetrating encapsulant on ceiling, walls or other surfaces.	SF			
A31	Spray apply one (1) coat of penetrating encapsulant — Flat surface.	SF			
A32	Spray apply one (1) coat of penetrating encapsulant — Pipes, beams, columns, tanks.	SF			
	ASBESTOS ABATEMENT - ENCLOSURE				
A33	Build an airtight enclosure around damaged or significantly damaged asbestos containing building materials (ACBM), or ACBM with the potential for damage.	SF	500		
A34	ASBESTOS ABATEMENT – REMOVAL - THERMAL SYSTEM INSULATION (TSI)				
A35	Glove bag removal. Remove up to 3 linear feet (LF) corrugated cardboard ("air cell") or cork asbestos-containing thermal system insulation (TSI) from up to 2" diameter domestic hot or cold water pipes and associated fittings and valves, and apply suitable "tack coat" (penetrating encapsulant).	EA	30		
A36	Glove bag removal. Remove up to 3 linear feet (LF) corrugated cardboard ("air cell") or cork asbestos-containing thermal system insulation (TSI) from 2" to 4" diameter domestic hot or cold water pipes and associated fittings and valves, and apply suitable "tack coat" (penetrating encapsulant).	EA	20		
A37	Glove bag removal. Remove up to 3 linear feet (LF) corrugated cardboard ("air cell") or cork asbestos-containing thermal system insulation (TSI) from 6" to 8" diameter domestic hot or cold water pipes and associated fittings and valves, and apply suitable "tack coat" (penetrating encapsulant).	EA			
A38	Glove bag removal with 2-chamber mini-enclosure, dry decon. Remove up to 3 linear feet (LF) calcium silicate or magnesium silicate asbestos-containing thermal system insulation (TSI) from up to 2" diameter iron pipe size (IPS) steam pipes and associated fittings and valves, and apply suitable heat-resistant "tack coat" (penetrating encapsulant).	EA	30		
A39	Glove bag removal with 2-chamber mini-enclosure, dry decon. Remove up to 3 linear feet (LF) calcium silicate or magnesium silicate asbestos-containing thermal system insulation (TSI) from 2" to 4" diameter IPS steam pipes and associated fittings and valves, and apply suitable heat-resistant "tack coat" (penetrating encapsulant).	EA	15		
A40	Glove bag removal with 2-chamber mini-enclosure, dry decon. Remove up to 3 linear feet (LF) calcium silicate or magnesium silicate asbestos-containing thermal system insulation (TSI) from 6" to 8" diameter IPS steam pipes and associated fittings and valves, and apply suitable heat-resistant "tack coat" (penetrating encapsulant).	EA			
A41	Full containment with 3-chamber decon. Remove corrugated cardboard ("air cell") or cork asbestos-containing thermal system	LF	400		

	insulation (TSI) from domestic hot and cold water pipes up to 2” diameter and associated fittings and valves, and apply suitable “tack coat” (penetrating encapsulant).				
A42	Full containment with 3-chamber decon. Remove corrugated cardboard (“air cell”) or cork asbestos-containing thermal system insulation (TSI) from domestic hot and cold water pipes, 2” to 4” diameter and associated fittings and valves, and apply suitable “tack coat” (penetrating encapsulant).	LF	1500		
A43	Full containment with 3-chamber decon. Remove corrugated cardboard (“air cell”) or cork asbestos-containing thermal system insulation (TSI) from domestic hot and cold water pipes, 4” to 6” diameter and associated fittings and valves, and apply suitable “tack coat” (penetrating encapsulant).	LF	250		
A44	Full containment with 3-chamber decon. Remove corrugated cardboard (“air cell”) or cork asbestos-containing thermal system insulation (TSI) from up 6” to 8” diameter domestic hot and cold water pipes and associated fittings and valves, and apply suitable “tack coat” (penetrating encapsulant).	LF	250		
A45	Full containment with 3-chamber decon. Remove asbestos-containing calcium silicate or magnesium silicate thermal system insulation (TSI) from steam pipes up to 2” diameter IPS and associated fittings and valves, and apply suitable heat resistant “tack coat” (penetrating encapsulant).	LF			
A46	Full containment with 3-chamber decon. Remove asbestos-containing calcium silicate or magnesium silicate thermal system insulation (TSI) from steam pipes 2” to 4” diameter IPS and associated fittings and valves, and apply suitable heat resistant “tack coat” (penetrating encapsulant).	LF	650		
A47	Full containment with 3-chamber decon. Remove asbestos-containing calcium silicate or magnesium silicate thermal system insulation (TSI) from steam pipes 6” to 8” diameter IPS and associated fittings and valves, and apply suitable heat resistant “tack coat” (penetrating encapsulant).	LF	250		
A48	Full containment with 3-chamber decon. Remove asbestos-containing calcium silicate or magnesium silicate thermal system insulation (TSI) from steam pipes 10” to 12” diameter IPS and associated fittings and valves, and apply suitable heat resistant “tack coat” (penetrating encapsulant).	LF			
A49	Full containment with 3-chamber decon. Remove asbestos-containing calcium silicate or magnesium silicate thermal system insulation (TSI) from steam pipes 14” to 16” diameter IPS and associated fittings and valves, and apply suitable heat resistant “tack coat” (penetrating encapsulant).	LF			
A50	Full containment with 3-chamber decon. Remove asbestos-containing calcium silicate or magnesium silicate thermal system insulation (TSI) from steam pipes 18” to 20” diameter IPS and associated fittings and valves, and apply suitable heat resistant “tack coat” (penetrating encapsulant).	LF			
A51	Full containment with 3-chamber decon. Remove asbestos-containing calcium silicate or magnesium silicate thermal system insulation (TSI) from steam pipes 20” to 22” diameter IPS and associated fittings and valves, and apply suitable heat resistant	LF			

	“tack coat” (penetrating encapsulant).				
A52	Full containment with 3-chamber decon. Remove asbestos-containing calcium silicate or magnesium silicate thermal system insulation (TSI) from steam pipes 24” to 26” diameter IPS and associated fittings and valves, and apply suitable heat resistant “tack coat” (penetrating encapsulant).	LF			
A53	Full containment with 3-chamber decon. Remove asbestos duct insulation.	SF	300		
A54	Full containment with 3-chamber decon. Remove thermal system insulation (TSI) from boilers.	SF	6000		
	ASBESTOS ABATEMENT (REMOVAL) SURFACING MATERIALS (SM)				
A55	Full containment with 3-chamber decon. Bulk asbestos removal. Remove structural fireproofing from flat surface.	SF	500		
A56	Full containment with 3-chamber decon. Bulk asbestos removal. Remove structural fireproofing from irregular surface.	SF	500		
A57	Full containment with 3-chamber decon. Bulk asbestos removal. Remove plaster ceiling, including suspension system, plaster & lathe.	SF	1300		
A58	Full containment with 3-chamber decon. Bulk asbestos removal. Remove plaster walls, including plaster and lathe.	SF	500		
A59	Full containment with 3-chamber decon. Bulk asbestos removal. Remove sprayed-on or troweled-on surfacing material.	SF	500		
	ASBESTOS ABATEMENT - REMOVAL – MISCELLANEOUS MATERIALS (MM)				
A60	Glove bag removal. Remove up to 3 square feet (SF) of asbestos-containing gaskets from pumps, valves, fittings, etc.	EA	5		
A61	Glove bag removal with 2-chamber mini-enclosure, dry decon. Remove up to 3 square feet (SF) of asbestos-containing gaskets from pumps, valves, fittings, etc.	EA			
A62	2-chamber mini-enclosure, dry decon. Remove up to three (3) square feet (SF) of vinyl asbestos tile (VAT) and associated mastic.	EA	15		
A63	Full containment with 3-chamber decon. Manually remove one layer of non-friable (intact) or friable (non-intact) vinyl asbestos tile (VAT) and associated mastic, as a regulated removal.	SF	14000		
A64	Full containment with 3-chamber decon. Remove one layer of non-friable (intact) or friable (non-intact) vinyl asbestos tile (VAT) by machine and associated mastic, as a regulated removal.	SF	17000		
A65	Full containment with 3-chamber decon. Manually remove two layers of non-friable (intact) or friable (non-intact) vinyl asbestos tile (VAT) and associated mastic, as regulated removal.	SF	1000		
A66	Full containment with 3-chamber decon. Remove two layers of non-friable (intact) or friable (non-intact) vinyl asbestos tile (VAT) by machine and associated mastic, as regulated removal.	SF	1000		
A67	Full containment with 3-chamber decon. Remove one (1) layer of carpet and one (1) layer of non-friable (intact) or friable (non-intact) vinyl asbestos tile (VAT), as a regulated removal.	SF	2000		
A68	Full containment with 3-chamber decon. Remove one (1) layer of carpet and two (2) layers of non-friable (intact) or friable (non-intact) vinyl asbestos tile (VAT), as a regulated removal.	SF	1000		

A69	Full containment with 3-chamber decon. Removal of asbestos-containing floor tile mastic only (non-flammable chemical solvent).	SF	1000		
A70	Full containment with 3-chamber decon. Removal of asbestos-containing floor tile mastic only (dry ice or liquid nitrogen).	SF			
A71	Full containment with 3-chamber decon. Manually remove asbestos-containing Linoleum and sheet flooring and associated mastic.	SF	2600		
A72	Full containment with 3-chamber decon. Manually remove asbestos-containing gypsum wallboard/joint compound systems.	SF			
A73	Full containment with 3-chamber decon. Remove friable asbestos cement (e.g., Transite®) wall board behind steam radiator.	SF	1400		
A74	Full containment with 3-chamber decon. Remove friable asbestos cement shingles.	SF			
A75	Remove <i>non-friable</i> (intact and non-deteriorated) asbestos cement pipes (e.g., Transite®), up to 4" diameter per MA-DEP policy.	LF			
A76	Full containment with 3-chamber decon. Remove <i>friable</i> (non-intact, deteriorated) asbestos cement pipes (e.g., Transite®), up to 4" diameter.	LF	100		
A77	Remove <i>non-friable</i> (intact and non-deteriorated) asbestos cement pipes (e.g., Transite®), 6" to 8" diameter per MA-DEP policy.	LF			
A78	Full containment with 3-chamber decon. Remove friable (non-intact, deteriorated) asbestos cement pipes (e.g., Transite®), 6" to 8" diameter.	LF			
A79	Remove <i>non-friable</i> (intact and non-deteriorated) asbestos cement pipes (e.g., Transite®), 10" to 12" diameter per MA-DEP policy.	LF			
A80	Full containment with 3-chamber decon. Remove <i>friable</i> (non-intact, deteriorated) asbestos cement pipes (e.g., Transite®), 14" to 16" diameter.	LF			
A81	Remove <i>non-friable</i> (intact and non-deteriorated) asbestos cement pipes (e.g., Transite®), 18" to 20" diameter per MA-DEP policy.	LF			
A82	Full containment with 3-chamber decon. Remove friable (non-intact, deteriorated) asbestos cement pipes (e.g., Transite®), 18" to 20" diameter.	LF			
A83	Remove <i>non-friable</i> (intact and non-deteriorated) asbestos cement pipes (e.g., Transite®), "22" to 24" diameter per MA-DEP policy.	LF			
A84	Full containment with 3-chamber decon. Remove <i>friable</i> (non-intact, deteriorated) asbestos cement pipes (e.g., Transite®), 22" to 24" diameter.	LF			
A85	Remove <i>non-friable</i> (intact and non-deteriorated) asbestos cement pipes (e.g., Transite®), "24" to 26" diameter per MA-DEP policy.	LF			
A86	Full containment with 3-chamber decon. Remove friable (non-intact, deteriorated) asbestos cement pipes (e.g., Transite®), 24" to 26" diameter.	LF			
A86A	Full containment with 3-chamber decon. Remove interior or exterior asbestos-containing window caulking with PCBs < 50 ppm as a regulated removal.				
A86B	Open air abatement. Remove intact exterior asbestos-containing window caulking with PCBs < 50 ppm as a regulated removal.				
A86C	Open air abatement. Remove asbestos-containing electrical wire				

	wrap as a regulated removal.				
A87	In 2-chamber mini-enclosure, dry decon. Remove asbestos-containing ceiling tiles.	SF			
A88	In 2-chamber mini-enclosure, dry decon. Remove asbestos-contaminated fiberglass batting insulation.	SF			
A89	In 2-chamber mini-enclosure, dry decon. Remove asbestos flexible duct connection (vibration dampening cloth).	SF			
A90	In 2-chamber mini-enclosure, dry decon. Removal of asbestos debris from surfaces by HEPA vacuuming and wet-wiping with amended water.	SF	1800		
A91	Full containment with 3-chamber decon. Remove asbestos-containing ceiling tiles.	SF			
A92	Full containment with 3-chamber decon. Remove asbestos-contaminated fiberglass batting insulation.	SF			
A93	Full containment with 3-chamber decon. Remove asbestos flexible duct connection (vibration dampening cloth).	SF			
A94	Mini-enclosure with dry decon. Removal of asbestos debris from surfaces by HEPA vacuuming and wet-wiping with amended water.	SF	800		
A95	Partial containment (all non-porous surfaces covered with 2-layers of fire retardant polyethylene sheeting except contaminated non-porous surfaces) and 3-chamber decon. Removal of asbestos debris from surfaces by HEPA vacuuming and wet-wiping with amended water.	SF			
A96	With 3-chamber decon. Removal of unenclosed (loose-fill) vermiculite attic insulation Vactor®, Hurricane, VecLoader®, or equivalent industrial HEPA vacuum. (Specify: _____).	CU FT			
A97	Full containment with 3-chamber decon. Removal of loose-fill vermiculite wall insulation by wall demolition.	CU FT			
	ASBESTOS ABATEMENT - REMOVAL - ROOFING				
A98	Remove intact, non-deteriorated asphalt asbestos-containing material such as roofing felts, roofing shingles, asphalt siding products and other asphalt paper products.	SF			
A99	Regulated removal. Remove asbestos-containing roofing shingles and siding products such as those containing a cementitious binding characterized as being hard and brittle.	SF	200		
	ASBESTOS ABATEMENT – REMOVAL - ASBESTOS-CONTAMINATED SOIL				
A100	Excavate and remove to 6” depth asbestos-contaminated soil in crawl space to specified depth manually.	CU FT	1000		
A101	Excavate and remove to 6” depth asbestos-contaminated soil in crawl space, Vactor®, Hurricane, VecLoader® or equivalent industrial vacuum (specify _____).	CU FT	5000		
A102	Install light aggregate over asbestos-contaminated soil in crawl space.	SF	6000		
A102A	Install 60-mil membrane and battens over asbestos-contaminated soil in crawl space.	SF			
	ASBESTOS ABATEMENT - REPAIR				
A103	Wet wrap damaged or significantly damaged asbestos pipe insulation.	LF	50		

A104	Wet wrap exposed ends of asbestos pipe insulation at fittings, elbows and valves.	LF	50		
A105	Repair damaged asbestos duct insulation.	SF			
	RE-INSULATION FOLLOWING ASBESTOS REMOVAL				
A106	Re-insulate fittings and valves on up to 2" domestic hot or cold water pipes with fiberglass (F.G.) insulation and PVC jacket.	EA			
A107	Re-insulate fittings and valves on 2" to 4" domestic hot or cold water pipes with fiberglass (F.G.) insulation and PVC jacket.	EA	100		
A108	Re-insulate fittings and valves on 4" to 6" domestic hot or cold water pipes with fiberglass (F.G.) insulation and PVC jacket.	EA	50		
A109	Re-insulate fittings and valves on 6" to 8" domestic hot or cold water pipes with fiberglass (F.G.) insulation and PVC jacket.	EA	50		
A110	Reinsulate domestic hot or cold water pipes up to 2" diameter, including fittings and valves, with fiberglass (F.G.) insulation and PVC jacket.	LF	1400		
A111	Reinsulate domestic hot or cold water pipes 2" to 4" diameter, including fittings and valves, with fiberglass (F.G.) insulation and PVC jacket.	LF	650		
A112	Reinsulate domestic hot or cold water pipes 4" to 6" diameter, including fittings and valves, with fiberglass (F.G.) insulation and PVC jacket.	LF	250		
A113	Reinsulate domestic hot or cold water pipes 6" to 8" diameter, including fittings and valves, with fiberglass (F.G.) insulation and PVC jacket.	LF			
A114	Re-insulate fittings and valves on up to 2" diameter IPS steam pipes, with fiberglass (F.G.) insulation and PVC jacket.	LF			
A115	Re-insulate fittings and valves on 2" to 4" diameter IPS steam pipes with fiberglass (F.G.) insulation and PVC jacket.	LF	250		
A116	Re-insulate fittings and valves on 6" to 8" diameter IPS steam pipes, with fiberglass (F.G.) insulation and PVC jacket.	LF	250		
A117	Re-insulate fittings and valves on 8" to 10" diameter IPS steam pipes, with fiberglass (F.G.) insulation and PVC jacket.	LF			
A118	Re-insulate fittings and valves on 12" to 14" diameter IPS steam pipes, with fiberglass (F.G.) insulation and PVC jacket.	LF			
A119	Re-insulate fittings and valves on 16" to 18" diameter IPS steam pipes, fiberglass (F.G.) insulation and PVC jacket.	LF			
A120	Re-insulate fittings and valves on 20" to 22" diameter IPS steam pipes, fiberglass (F.G.) insulation and PVC jacket.	LF			
A121	Re-insulate fittings and valves on 24" to 26" diameter IPS steam pipes, fiberglass (F.G.) insulation and PVC jacket.	LF			
	MISCELLANEOUS ASBESTOS-RELATED SERVICES				
A122	Install ANSI/OSHA-compliant identification labels, tags and/or signs where ACM remains.	EA	150		
	TRANSPORTATION AND DISPOSAL OF ACM AND ASBESTOS-CONTAMINATED DEBRIS IN STATE-APPROVED ASBESTOS LANDFILL (Specify location)				
A123	Leaktight 55-gal metal drum with two (2) layers of 6-mil poly sheeting.	EA			
A124	Leaktight one (1) cu yd cardboard tote lined with two (2) layers of 6 mil poly sheeting.	EA			

A125	Leaktight, covered, lockable roll-Off Container, 10 CY capacity, enclosed. Lined with two (2) layers of 6 mil poly sheeting.	EA	12		
A126	Leaktight, covered, lockable roll-Off Container. 20 CY capacity, enclosed. Lined with two (2) layers of 6 mil poly sheeting.	EA	10		
	PROJECT DEMOBILIZATION				
A127	Project demobilization.	EA	10		

Note to CONTRACTOR: Asbestos abatement in the medical center often occurs in the evenings and weekends to accommodate patients and staff. Identify a multiplier (if any) to be applied to base unit prices for work beyond normal hours (8:00 am. — 4:30 pm.).
(insert multiplier) _____

*** Line items that require time and one half for emergency response only have been identified via asterisks on the rate schedule.**

“Full containment” is defined as traditional sealed work area (critical and primary barriers), HEPA-filtered negative pressure air, impermeable coveralls and appropriate respiratory protection.