

# Attachment “A”

## ASBESTOS PROGRAM SUMMARY

### Administration Building

- The attached information was extracted from “An Asbestos Survey for Thirteen York County Buildings,” dated August 22, 1991, and prepared by Roy F Weston, Inc. A copy of the full report is filed in storage files located at Vehicle Maintenance. The report finds asbestos located on:
  - Pipe and Pipe Insulation largely in the crawl space, which also contaminated the soil.
  - Sheet flooring located at the west, front entrance
  - Caulk on the mechanical unit located on the roof
  - Transite panels, enclosed behind sheetrock, on the walls of two storage rooms in the basement under the Community Services conference room
- Removal of asbestos in the crawlspace was accomplished by Waco, Inc., under IFB #521, prior to building renovation in 2000; however, there is no specific record of black caulk removal on the mechanical unit on the roof, although a new roof was also installed at this time. There’s also no record of the floor sheeting found at the entrance to Community Services, or south end of the building.
- Note the second paragraph of the 1991 report regarding, Pipe and Pipe Fitting Insulation, which warns of possible asbestos pipe insulation “in the walls throughout the building.” Personnel working in this building should be aware of where asbestos was found and where it’s suspected and use caution in case something was missed or not removed. Suspicious items should be brought to the attention of the Chief of Engineering and Facility Maintenance.

#### Attachments:

Excerpts from the Weston report, referenced above

RLP  
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## SECTION 11

### BUILDING 8, ADMINISTRATION BUILDING

#### 11.1. SUMMARY OF FINDINGS

##### 11.1.1. General

Building 8, The Administration Building, is a cinderblock and brick building with various interior and exterior building material systems. Fifty-four (54) samples of suspect building materials were collected and analyzed for asbestos using PLM. Twelve (12) samples were found to contain asbestos. Table 11.1 shows the sample analysis, locations and description of each sample. Roofing areas not sampled at the time of this survey included the built-up roof over hallway 119. This roof was sampled during a supplemental survey and the results are discussed in Appendix A.

##### Pipe and Pipe Fitting Insulation:

The crawl spaces located under the building contain large quantities of asbestos-containing pipe insulation. This insulation is in very poor condition and has fallen from areas of the pipe system. The pipe system configuration suggests that some pipes are located in the walls throughout this building. To sample and check for asbestos on these pipes would require destructive testing. Until proven otherwise, it should be assumed there is asbestos pipe insulation contained inside the walls.

##### Other Friable ACM:

The fallen insulation has contaminated the soil. This contaminated soil possesses a significant hazard to anyone entering the area to perform repair work.

##### Non Friable ACM:

An area of floor sheeting was found to contain asbestos. This area was located in hallway 119 and was covered with carpeting. This floor sheeting is non-friable.

Some sealing caulk found on the air conditioning unit located on the roof was found to contain asbestos. The caulk was used to seal metal joints and create a weather proof seal. The caulk is non-friable.

Transite paneling was reported in the basement. These panels are completely enclosed behind sheetrock.

A bucket of asbestos-containing roofing mastic was found inside the attic.

Other suspect material including sheetrock, ceiling tile, floor tile, various ceiling materials, and roofing shingles were found not to contain asbestos. Figure 11.1 indicates the sample locations.

### 11.1.2. Asbestos-Containing Materials

Table 11.2 lists the types, locations and quantities of the ACM. The locations and material types are shown in the schematic floor plan drawing, on Figure 11.1. A summary of ACM found in this building follows:

<u>Building</u> <u>Floor/Level</u>	<u>Material</u> <u>Description</u>	<u>Friable</u>	<u>Location</u>	<u>Response</u> <u>Priority</u>
Crawlspace	Pipe Fittings	Yes	A, B, C, D	1
	Pipe Run	Yes	A, B, C, D	1
	Soil/Debris	Yes	A, B, C, D	1
Basement	Cement Panels	Yes	13, 14	7
1st Floor	Vinyl Flooring	No	119 Landing	7
Roof	Caulk	No	A/C Unit	7

When necessary, it is possible to reduce the Response Priority by performing certain actions short of removal. See recommendations section in the Executive Summary. WESTON added Priority 7 in order to address non-friable ACM which is not recognized by the AGFM.

### 11.2. EXPOSURE POTENTIAL

The ACM in Building 8 is both friable and non-friable. The exposure to airborne asbestos fibers from non-friable material, such as the floor sheeting, is relatively low. This is because the fibers are bound in the material matrix and unless the sheeting is damaged, the fibers are not released. With friable material, such as the pipe insulation, the release of airborne fibers and exposure vary with a number of factors. The AFGM is used to prioritize these friable materials. Table 11.3 identifies each area and the priority number.

#### Pipe and Pipe Fitting Insulation and Other Friable ACM:

The ACM in the crawl spaces is assigned a priority ranking of 1. Asbestos removal in this area should be a priority. This area is highly contaminated and should not be entered without the proper training and respiratory protection. At this time, the County of York has sealed off all access to this area which is an adequate short term solution, but the asbestos still remains and may possess a contamination problem in the future.

#### Non Friable ACM:

The floor sheeting and caulk that contain asbestos in this building are non-friable and are assigned a priority ranking of 7 where no action is necessary. Through renovation or demolition, these materials may be disturbed or damaged in a way that the material becomes friable. Prior to renovation or demolition, abatement would be required.

In Room 013 and 014, transite paneling is present. The County of York personnel accompanying WESTON inspectors identified the transite panels which had been sealed over with sheetrock. Asbestos

exposure from the non-friable panels that are sealed is virtually non-existent unless future work in the area should damage these panels.

### 11.3. COST ESTIMATE

The cost estimate for the complete removal and replacement of all ACM in the Administrative Building is \$80,4700. The cost for removal and replacement of all friable material is \$78,600. This estimate includes engineering design and specifications, project monitoring and air monitoring fees. This cost estimate does not include the removal cost for any pipe insulation contained in the wall system or unsampled roof materials. Table 11.4 presents a detailed breakdown of the costs involved with the abatement of these materials.

### 11.4. POTENTIAL HAZARD LISTING

Non-friable (difficult to crush under hand pressure) asbestos materials, such as floor tile, presents a relatively low hazard compared to other types of ACM. The asbestos fibers are tightly bound in the material matrix and do not easily become airborne. Asbestos fibers may be released however if the material is seriously damaged, sanded, severely worn or is cut to fit into place. Maintenance personnel conducting work of this type are at risk of being exposed to airborne fibers.

Friable material containing asbestos, such as pipe insulations and boiler gaskets may become airborne quite easily whenever the material is damaged, removed or otherwise disturbed as in equipment maintenance activities. This airborne asbestos may subsequently be inhaled by maintenance personnel or other building occupants, thereby placing these individuals at risk of exposure to asbestos fibers.

As policies and protocol regarding ACM are initiated, they should be developed with the preceding discussions in mind regarding corrective and abatement actions, detailed project description and cost estimate, and programs of inspection and air sampling. In particular, the following asbestos related training is recommended for this building: Awareness training of maintenance personnel.

## 11.5. RECOMMENDATIONS

### Pipe and Pipe Fitting Insulation and Other Friable ACM:

The crawl spaces need to receive high priority for abatement action. The County of York has taken proper steps in sealing this area off from air movement and access to people, however, the material still remains. Air samples should be taken from areas around entrances to the crawl spaces to check for airborne asbestos fibers and to check if the seals are adequate.

### Non Friable ACM:

The floor sheeting and caulk material are non-friable and no action is necessary. The floor sheeting is covered by carpeting and is not likely to release any fibers. The caulk is an exterior material and in normal use will not become friable. Prior to renovation, the floor sheeting should be removed. The caulk will not need to be removed because it will not become friable during renovation or demolition.

The transite paneling and roofing materials assumed to contain asbestos will need to be removed prior to renovation or demolition that will affect the material.

TABLE 11.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 8, ADM BLDG  
 USING AGENCY: GENERAL SERVICES  
 TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED <sup>a</sup>
				CH	AM	OT	
AT890	108, C, BELOW CEILING	CEILING TILE	WHITE, OTH, CLG TILE, HORIZONTAL	-	-	-	YES
AT891	108, C	CEILING BOARD	BROWN, OTH, PRESSBOARD, HORIZONTAL	-	-	-	NO
AT892	108, C	OTHER MATERIAL	GRAY, OTH, SHEETROCK, VERTICAL	-	-	-	NO
AT893	101, C, BELOW CEILING	CEILING TILE	WHITE, OTH, CLG TILE, HORIZONTAL	-	-	-	YES
AT894	102, C	OTHER MATERIAL	GRAY, OTH, SHEETROCK, VERTICAL	-	-	-	YES
AT895	103, C, BELOW CEILING	CEILING TILE	WHITE, OTH, CLG TILE, HORIZONTAL	-	-	-	YES
AT896	103, C	CEILING BOARD	BROWN, OTH, PRESSBOARD, HORIZONTAL	-	-	-	YES
AT897	110, C, BELOW CEILING	CEILING TILE	WHITE, OTH, CLG TILE, HORIZONTAL	-	-	-	YES
AT898	110, C, BELOW CEILING	CEILING TILE	WHITE, OTH, CLG TILE, HORIZONTAL	-	-	-	YES
AT899	119, C, BELOW CEILING	CEILING TILE	WHITE, OTH, CLG TILE, HORIZONTAL	-	-	-	YES
AT900	117, C	OTHER MATERIAL	GRAY, OTH, SHEETROCK, HORIZONTAL	-	-	-	YES
AT901	119, C	CEILING BOARD	GRAY, OTH, SHEETROCK, HORIZONTAL	-	-	-	YES
AT902	119, C	CEILING BOARD	GRAY, OTH, SHEETROCK, HORIZONTAL	-	-	-	YES
AT903	119, C, BELOW CEILING	FLOOR TILE	YELLOW, OTH, FLOOR TILE, HORIZONTAL	15	-	-	YES
AT904	137, C	CEILING BOARD	GRAY, OTH, SHEETROCK, HORIZONTAL	-	-	-	YES
AT905	137, C, BELOW CEILING	SPRAYED/TROWELED MATERIAL	WHITE, OTH, SPRAY-ON	-	-	-	NO
AT906	122, C, BELOW CEILING	OTHER MATERIAL	YELLOW, OTH, CARPET GLU, HORIZONTAL	-	-	-	NO
AT907	120, C, ABOVE CEILING	DEBRIS	BLACK, OTH, DEBRIS	-	-	-	NO
AT908	135, C	CEILING BOARD	GRAY, OTH, SHEETROCK, HORIZONTAL	-	-	-	NO
AT909	128, C, BELOW CEILING	SPRAYED/TROWELED MATERIAL	WHITE, OTH, FILLER, HORIZONTAL	-	-	-	NO
AT910	136, C	SPRAYED/TROWELED MATERIAL	GRAY, OTH, TROWEL-ON, HORIZONTAL	-	-	-	YES
AT911	151, C	OTHER MATERIAL	BLACK, OTH, BLDG FELT, HORIZONTAL	-	-	-	NO
AT912	156, C	SPRAYED/TROWELED MATERIAL	GRAY, OTH, TROWEL-ON, HORIZONTAL	-	-	-	NO

<sup>a</sup> Asbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes  
 C = Center  
 N = North  
 E = East  
 S = South  
 W = West  
 NE = Northeast  
 NW = Northwest  
 SE = Southeast  
 SW = Southwest

System Codes  
 STM = Steam  
 CHW = Chilled Water  
 HHW = Heating Hot Water  
 DOM = Domestic Water  
 OTH = Other  
 UNK = Unknown

Asbestos Types  
 CH = Chrysotile  
 AM = Amosite  
 OT = Other

TABLE 11.1  
(continued)

BULK SAMPLE ANALYSIS RESULTS - BUILDING 8, ADM BLDG  
 USING AGENCY: GENERAL SERVICES  
 TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED <sup>a</sup>
				CH	AM	OT	
AT913	159, C	OTHER MATERIAL	BLACK, OTH, BLDG FELT, HORIZONTAL	-	-	-	NO
AT938	155, C	CEILING BOARD	BROWN, OTH, PRESSBOARD, HORIZONTAL	-	-	-	YES
AT939	143, C	SPRAYED/TROWELED MATERIAL	GRAY, OTH, TROWEL-ON, HORIZONTAL	-	-	-	NO
AT940	143, C	OTHER MATERIAL	BLACK, OTH, BLDG FELT, HORIZONTAL	-	-	-	NO
AT941	009, C	<4" PIPE RUN	WHITE, UNK, PIPE RUN	-	-	-	NO
AT942	CRAWLSPACE A, C, BELOW CEILING	4-8" PIPE RUN	WHITE, HHW, PIPE RUN, HORIZONTAL	60	-	-	YES
AT943	CRAWLSPACE A, C, BELOW CEILING	4-8" PIPE FITTING	WHITE, HHW, PIPE FTG	50	-	-	NO
AT944	CRAWLSPACE A, C, BELOW CEILING	<4" PIPE RUN	WHITE, HHW, PIPE RUN, HORIZONTAL	60	-	-	NO
AT945	CRAWLSPACE A, C, BELOW CEILING	<4" PIPE FITTING	WHITE, HHW, PIPE FTG	40	-	-	NO
AT946	CRAWLSPACE A, C, BELOW CEILING	DEBRIS	WHITE, OTH, DEBRIS	10	-	-	YES
AT947	CRAWLSPACE A, C, BELOW CEILING	4-8" PIPE RUN	WHITE, HHW, PIPE RUN, HORIZONTAL	10	35	-	NO
AT948	CRAWLSPACE A, C, BELOW CEILING	4-8" PIPE RUN	WHITE, HHW, PIPE RUN, HORIZONTAL	40	-	-	NO
AT949	CRAWLSPACE A, C, BELOW CEILING	DEBRIS	WHITE, OTH, DEBRIS	-	-	-	NO
AT950	CRAWLSPACE C, C, BELOW CEILING	4-8" PIPE RUN	WHITE, HHW, PIPE RUN, HORIZONTAL	15	20	-	YES
AT951	CRAWLSPACE C, C, BELOW CEILING	DEBRIS	BROWN, OTH, DEBRIS	1	5	-	YES
AT952	CRAWLSPACE C, C, BELOW CEILING	4-8" PIPE RUN	WHITE, HHW, PIPE RUN, HORIZONTAL	30	-	-	YES
AT953	018, C	CEILING TILE	BROWN, OTH, CLG TILE, HORIZONTAL	-	-	-	YES
AT954	016-020, C	OTHER MATERIAL	BROWN, OTH, MASTIC, HORIZONTAL	-	-	-	YES
AT955	019, C, BELOW CEILING	FLOOR TILE	BROWN, OTH, FT, HORIZONTAL	-	-	-	YES
AT956	ROOF, C, ABOVE CEILING	EXTERIOR SIDING	WHITE, OTH, ROOF FLASH, HORIZONTAL	-	-	-	YES
AT957	016, C	OTHER MATERIAL	GRAY, OTH, SHEETROCK, HORIZONTAL	-	-	-	YES
AT958	016, C	CEILING TILE	BROWN, OTH, CLG TILE, HORIZONTAL	-	-	-	YES
AT959	016, C	OTHER MATERIAL	GRAY, OTH, SHEETROCK, HORIZONTAL	-	-	-	NO

<sup>a</sup> Asbestos content presented for layered samples represents the highest concentration layer.

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 E = East  
 S = South  
 W = West  
 NE = Northeast  
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 SE = Southeast  
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System Codes  
 STM = Steam  
 CHW = Chilled Water  
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Asbestos Types  
 CH = Chrysotile  
 AM = Amosite  
 OT = Other

TABLE 11.1  
(continued)  
BULK SAMPLE ANALYSIS RESULTS - BUILDING 8, ADM BLDG  
USING AGENCY: GENERAL SERVICES  
TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED <sup>a</sup>
				CH	AM	OT	
AT960	ROOF, C, ABOVE CEILING	EXTERIOR SIDING	BLACK, OTH, TAR, HORIZONTAL	-	-	-	YES
AT961	ROOF, C, ABOVE CEILING	EXTERIOR SIDING	BLACK, OTH, ROOF FELT	-	-	-	NO
AT962	ROOF, C, ABOVE CEILING	OTHER MATERIAL	BLACK, OTH, SHINGLE	-	-	-	YES
AT963	ROOF, C, ABOVE CEILING	OTHER MATERIAL	BLACK, OTH, ROOF MAT	-	-	-	NO
AT964	ROOF, C, ABOVE CEILING	EXTERIOR SIDING	BLACK, OTH, ROOF MAT, HORIZONTAL	-	-	-	NO
AT965	ROOF, C, ABOVE CEILING	OTHER MATERIAL	BLACK, OTH, CAULK	5	-	-	YES
AT966	ROOF, C, ABOVE CEILING	OTHER MATERIAL	BLACK, OTH, SHINGLE	-	-	-	YES
AT967	ROOF, C, ABOVE CEILING	EXTERIOR SIDING	BLACK, OTH, MASTIC	-	-	-	YES

<sup>a</sup> Asbestos content presented for layered samples represents the highest concentration layer.

<u>Quadrant Codes</u>	<u>System Codes</u>	<u>Asbestos Types</u>
C = Center	STM = Steam	CH = Chrysotile
N = North	CHW = Chilled Water	AM = Amosite
E = East	HHW = Heating Hot Water	OT = Other
S = South	DOM = Domestic Water	
W = West	OTH = Other	
NE = Northeast	UNK = Unknown	
NW = Northwest		
SE = Southeast		
SW = Southwest		

TABLE 11.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 8, ADM BLDG  
 USING AGENCY: GENERAL SERVICES  
 TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

AREA	PIPE FITTINGS (EA)			PIPE RUNS (LF)			SPRAY/TROWELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"					
119	-	-	-	-	-	-	-	0.06	-	-	-
CRAWLSPACE A	10	30	-	-	20	255	-	-	-	-	*
CRAWLSPACE B	28	-	-	-	65	-	-	-	-	-	*
CRAWLSPACE C	14	-	-	-	80	100	-	-	-	-	*
CRAWLSPACE D	32	12	-	-	200	260	-	-	-	-	*
ROOF	-	-	-	-	-	-	-	-	-	-	*
TOTALS	84	42	-	-	365	615	-	0.06	-	-	*

\* Other Material Present In Various Units Of Measure

EA - Each  
 LF - Linear Feet  
 MSF - Thousand Square Feet

TABLE 11.3

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 8, ADM BLDG  
 USING AGENCY: GENERAL SERVICES  
 TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	AREA	SAMPLED AT THIS LOCATION (Y/N)	ASBESTOS CONTENT (%)			EA FORM NO.	GRADE FACTORS		HARM SCORE	CALCULATED EPA FACTORS	CALCULATED EPA SCORE	PRIORITY RATING
			CH	AM	OT		EXPOSURE	DAMAGE				
AT944	CRAWLSPACE A	Y	60	0	0	0944	614400441	501185	4.60	50581433	207	1
AT944	CRAWLSPACE B	N	60	0	0	0944	614400441	501185	4.60	50581433	207	1
AT944	CRAWLSPACE C	N	60	0	0	0944	614400441	501185	4.60	50581433	207	1
AT944	CRAWLSPACE D	N	60	0	0	0944	614400441	501185	4.60	50581433	207	1
AT946	CRAWLSPACE A	Y	10	0	0	0946	634100441	501481	4.94	50581132	120	1
AT946	CRAWLSPACE B	N	10	0	0	0946	634100441	501481	4.94	50581132	120	1
AT942	CRAWLSPACE A	Y	60	0	0	0942	624100441	501185	4.94	50581132	180	1
AT951	CRAWLSPACE C	Y	1	5	0	0951	624100441	501481	5.11	50581132	120	1
AT951	CRAWLSPACE D	N	1	5	0	0951	624100441	501481	5.11	50581132	120	1
AT947	CRAWLSPACE A	Y	10	35	0	0947	624100441	501183	5.28	50581132	120	1
AT948	CRAWLSPACE A	Y	40	0	0	0948	624100441	501183	5.28	50581132	120	1
AT943	CRAWLSPACE A	Y	50	0	0	0943	614100441	501183	5.45	50581132	120	1
AT943	CRAWLSPACE D	N	50	0	0	0943	614100441	501183	5.45	50581132	120	1
AT945	CRAWLSPACE A	Y	40	0	0	0945	614100441	501183	5.45	50581132	120	1
AT945	CRAWLSPACE B	N	40	0	0	0945	614100441	501183	5.45	50581132	120	1
AT945	CRAWLSPACE C	N	40	0	0	0945	614100441	501183	5.45	50581132	120	1
AT945	CRAWLSPACE D	N	40	0	0	0945	614100441	501183	5.45	50581132	120	1
AT950	CRAWLSPACE C	Y	15	20	0	0950	614100441	501183	5.45	50581132	120	1
AT950	CRAWLSPACE D	N	15	20	0	0950	614100441	501183	5.45	50581132	120	1
AT952	CRAWLSPACE C	Y	30	0	0	0952	614100441	501183	5.45	50581132	120	1
AT890	108	Y	0	0	0	0890	321120442	101420	0.00	20521120	0	7
AT891	101	N	0	0	0	0891	102120412	203400	0.00	20121110	0	7
AT891	102	N	0	0	0	0891	102120412	203400	0.00	20121110	0	7
AT891	108	Y	0	0	0	0891	102120412	203400	0.00	20121110	0	7
AT893	101	Y	0	0	0	0893	321120442	101420	0.00	20521120	0	7
AT893	102	N	0	0	0	0893	321120442	101420	0.00	20521120	0	7

TABLE 11.3  
(continued)

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 8, ADM BLDG  
 USING AGENCY: GENERAL SERVICES  
 TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	AREA	SAMPLED AT THIS LOCATION (Y/N)	ASBESTOS CONTENT (%)			EA FORM NO.	GRADE FACTORS		HARM SCORE	CALCULATED EPA SCORE		PRIORITY RATING
			CH	AM	OT		EXPOSURE	DAMAGE		EPA FACTORS	EPA SCORE	
AT893 111		N	0	0	0	0893	321120442	101420	0.00	20521120	0	7
AT893 112		N	0	0	0	0893	321120442	101420	0.00	20521120	0	7
AT893 113		N	0	0	0	0893	321120442	101420	0.00	20521120	0	7
AT893 114		N	0	0	0	0893	321120442	101420	0.00	20521120	0	7
AT893 115		N	0	0	0	0893	321120442	101420	0.00	20521120	0	7
AT893 116		N	0	0	0	0893	321120442	101420	0.00	20521120	0	7
AT893 117		N	0	0	0	0893	321120442	101420	0.00	20521120	0	7
AT893 118		N	0	0	0	0893	321120442	101420	0.00	20521120	0	7
AT893 120		N	0	0	0	0893	321120442	101420	0.00	20521120	0	7
AT895 103		Y	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 104		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 107		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 121		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 122		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 123		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 124		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 125		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 126		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 127		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 128		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 129		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 130		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 131		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 132		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 134		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 135		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7

TABLE 11.3  
 (continued)  
 EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 8, ADM BLDG  
 USING AGENCY: GENERAL SERVICES  
 TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	AREA	SAMPLED AT THIS LOCATION (Y/N)	ASBESTOS CONTENT (%)			EA FORM NO.	GRADE FACTORS		HARM SCORE	CALCULATED EPA FACTORS	CALCULATED EPA SCORE	PRIORITY RATING
			CH	AM	OT		EXPOSURE	DAMAGE				
AT895 136		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 138		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 139		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 140		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 141		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 142		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 143		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 144		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 145		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 146		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 147		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 148		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 149		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 150		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 151		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 152		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 153		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 154		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 155		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 156		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 157		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 158		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 159		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 159		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 161		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895 162		N	0	0	0	0895	321120442	101420	0.00	20521120	0	7

TABLE 11.3  
(continued)

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 8, ADM BLDG

USING AGENCY: GENERAL SERVICES  
TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	AREA	SAMPLED AT THIS LOCATION (Y/N)	ASBESTOS CONTENT (%)			EA FORM NO.	GRADE FACTORS		HARM SCORE	CALCULATED EPA FACTORS	CALCULATED EPA SCORE	PRIORITY RATING
			CH	AM	OT		EXPOSURE	DAMAGE				
AT895	163	N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895	164	N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895	166	N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895	167	N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT895	168	N	0	0	0	0895	321120442	101420	0.00	20521120	0	7
AT896	103	Y	0	0	0	0896	102120412	203400	0.00	20121110	0	7
AT896	104	N	0	0	0	0896	102120412	203400	0.00	20121110	0	7
AT896	105	N	0	0	0	0896	102120412	203400	0.00	20121110	0	7
AT896	106	N	0	0	0	0896	102120412	203400	0.00	20121110	0	7
AT896	107	N	0	0	0	0896	102120412	203400	0.00	20121110	0	7
AT896	109	N	0	0	0	0896	102120412	203400	0.00	20121110	0	7
AT896	110	N	0	0	0	0896	102120412	203400	0.00	20121110	0	7
AT896	111	N	0	0	0	0896	102120412	203400	0.00	20121110	0	7
AT896	112	N	0	0	0	0896	102120412	203400	0.00	20121110	0	7
AT896	113	N	0	0	0	0896	102120412	203400	0.00	20121110	0	7
AT896	114	N	0	0	0	0896	102120412	203400	0.00	20121110	0	7
AT896	115	N	0	0	0	0896	102120412	203400	0.00	20121110	0	7
AT896	116	N	0	0	0	0896	102120412	203400	0.00	20121110	0	7
AT896	117	N	0	0	0	0896	102120412	203400	0.00	20121110	0	7
AT896	118	N	0	0	0	0896	102120412	203400	0.00	20121110	0	7
AT897	105	N	0	0	0	0897	321120442	203420	0.00	20541120	0	7
AT897	110	Y	0	0	0	0897	321120442	203420	0.00	20541120	0	7
AT898	106	N	0	0	0	0898	321120442	203420	0.00	20541120	0	7
AT898	109	N	0	0	0	0898	321120442	203420	0.00	20541120	0	7
AT898	110	Y	0	0	0	0898	321120442	203420	0.00	20541120	0	7
AT899	119	Y	0	0	0	0899	321120441	201420	0.00	20521120	0	7

TABLE 11.3  
(continued)

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 8, ADM BLDG  
 USING AGENCY: GENERAL SERVICES  
 TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	AREA	SAMPLED AT THIS LOCATION (Y/N)	ASBESTOS CONTENT (%)		EA FORM NO.	GRADE FACTORS		HARM SCORE	CALCULATED EPA FACTORS	CALCULATED EPA SCORE	PRIORITY RATING
			CH	AM OT		EXPOSURE	DAMAGE				
AT901	119	Y	0	0	0901	101120411	203400	0.00	20120110	0	7
AT901	120	N	0	0	0901	101120411	203400	0.00	20120110	0	7
AT901	121	N	0	0	0901	101120411	203400	0.00	20120110	0	7
AT901	122	N	0	0	0901	101120411	203400	0.00	20120110	0	7
AT901	123	N	0	0	0901	101120411	203400	0.00	20120110	0	7
AT902	119	Y	0	0	0902	101120411	203400	0.00	20120110	0	7
AT902	124	N	0	0	0902	101120411	203400	0.00	20120110	0	7
AT902	125	N	0	0	0902	101120411	203400	0.00	20120110	0	7
AT902	126	N	0	0	0902	101120411	203400	0.00	20120110	0	7
AT902	130	N	0	0	0902	101120411	203400	0.00	20120110	0	7
AT902	131	N	0	0	0902	101120411	203400	0.00	20120110	0	7
AT902	132	N	0	0	0902	101120411	203400	0.00	20120110	0	7
AT902	133	N	0	0	0902	101120411	203400	0.00	20120110	0	7
AT904	137	Y	0	0	0904	101120411	203400	0.00	20120110	0	7
AT905	137	Y	0	0	0905	604120411	403350	0.00	50251130	0	7
AT907	120	Y	0	0	0907	301120412	503020	0.00	50141120	0	7
AT908	127	N	0	0	0908	101120412	103400	0.00	20121110	0	7
AT908	128	N	0	0	0908	101120412	103400	0.00	20121110	0	7
AT908	129	N	0	0	0908	101120412	103400	0.00	20121110	0	7
AT908	134	N	0	0	0908	101120412	103400	0.00	20121110	0	7
AT908	135	Y	0	0	0908	101120412	103400	0.00	20121110	0	7
AT909	128	Y	0	0	0909	101000412	000020	0.00	00121010	0	7
AT910	136	Y	0	0	0910	301100412	503400	0.00	50120120	0	7
AT910	150	N	0	0	0910	301100412	503400	0.00	50120120	0	7
AT912	151	N	0	0	0912	301100412	503400	0.00	50120120	0	7

TABLE 11.3  
(continued)

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 8, ADM BLDG  
 USING AGENCY: GENERAL SERVICES  
 TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	AREA	SAMPLED AT THIS LOCATION (Y/N)	ASBESTOS CONTENT (%)		EA FORM NO.	GRADE FACTORS		HARM SCORE	CALCULATED EPA FACTORS	CALCULATED EPA SCORE	PRIORITY RATING
			CH	AM OT		EXPOSURE	DAMAGE				
AT912 152		N	0	0	0912	301100412	503400	0.00	50120120	0	7
AT912 153		N	0	0	0912	301100412	503400	0.00	50120120	0	7
AT912 156		Y	0	0	0912	301100412	503400	0.00	50120120	0	7
AT912 157		N	0	0	0912	301100412	503400	0.00	50120120	0	7
AT912 158		N	0	0	0912	301100412	503400	0.00	50120120	0	7
AT938 154		N	0	0	0938	301100412	401400	0.00	50100120	0	7
AT938 155		Y	0	0	0938	301100412	401400	0.00	50100120	0	7
AT938 159		N	0	0	0938	301100412	401400	0.00	50100120	0	7
AT938 161		N	0	0	0938	301100412	401400	0.00	50100120	0	7
AT938 162		N	0	0	0938	301100412	401400	0.00	50100120	0	7
AT938 163		N	0	0	0938	301100412	401400	0.00	50100120	0	7
AT938 164		N	0	0	0938	301100412	401400	0.00	50100120	0	7
AT938 166		N	0	0	0938	301100412	401400	0.00	50100120	0	7
AT938 167		N	0	0	0938	301100412	401400	0.00	50100120	0	7
AT938 168		N	0	0	0938	301100412	401400	0.00	50100120	0	7
AT939 138		N	0	0	0939	301100412	503400	0.00	50120120	0	7
AT939 139		N	0	0	0939	301100412	503400	0.00	50120120	0	7
AT939 140		N	0	0	0939	301100412	503400	0.00	50120120	0	7
AT939 141		N	0	0	0939	301100412	503400	0.00	50120120	0	7
AT939 142		N	0	0	0939	301100412	503400	0.00	50120120	0	7
AT939 143		Y	0	0	0939	301100412	503400	0.00	50120120	0	7
AT939 144		N	0	0	0939	301100412	503400	0.00	50120120	0	7
AT939 145		N	0	0	0939	301100412	503400	0.00	50120120	0	7
AT939 146		N	0	0	0939	301100412	503400	0.00	50120120	0	7
AT939 147		N	0	0	0939	301100412	503400	0.00	50120120	0	7
AT939 148		N	0	0	0939	301100412	503400	0.00	50120120	0	7

TABLE 11.3  
(continued)  
EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 8, ADM BLDG  
USING AGENCY: GENERAL SERVICES  
TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

SAMPLE NO.	AREA	SAMPLED AT THIS LOCATION (Y/N)	ASBESTOS CONTENT (%)			EA FORM NO.	GRADE FACTORS		HARM SCORE	CALCULATED EPA FACTORS	CALCULATED EPA SCORE	PRIORITY RATING
			CH	AM	OT		EXPOSURE	DAMAGE				
AT941	009	Y	0	0	0	0941	602100111	501120	0.00	50120130	0	7
AT949	CRAWLSPACE A	Y	0	0	0	0949	634100441	501480	0.00	50581130	0	7
AT953	018	Y	0	0	0	0953	314100141	400420	0.00	50420120	0	7
AT953	019	N	0	0	0	0953	314100141	400420	0.00	50420120	0	7
AT953	020	N	0	0	0	0953	314100141	400420	0.00	50420120	0	7
AT956	ROOF	Y	0	0	0	0956	113020041	000000	0.00	00400110	0	7
AT958	016	Y	0	0	0	0958	314100141	201420	0.00	20420120	0	7
AT958	017	N	0	0	0	0958	314100141	201420	0.00	20420120	0	7
AT960	ROOF	Y	0	0	0	0960	123020041	100000	0.00	20400110	0	7
AT961	ROOF	Y	0	0	0	0961	103020011	000000	0.00	00100110	0	7
AT964	ROOF	Y	0	0	0	0964	133000041	000020	0.00	00520010	0	7
AT967	ROOF	Y	0	0	0	0967	123020041	000020	0.00	00521110	0	7

TABLE 11.4

COST ESTIMATE\* - BUILDING 8, ADM BLDG  
 USING AGENCY: GENERAL SERVICES  
 TYPE OCCUPANCY: ADULTS (GOVERNMENT, PUBLIC)

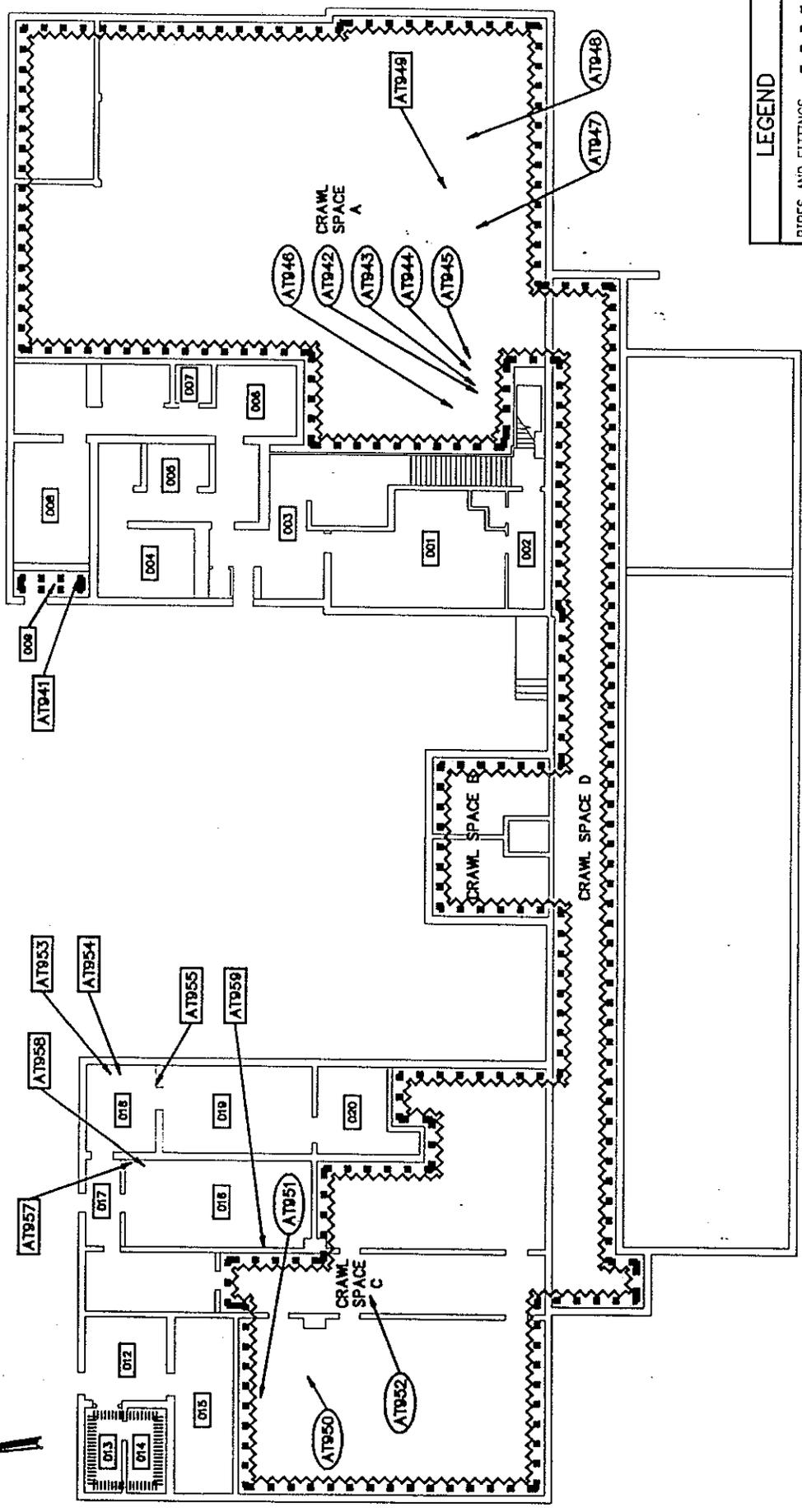
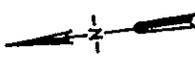
DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6	TOTAL
Pipe Fittings (EA)	19.05	-	0.2	0.5	0.3	0.6	-	1.6
<4" 8"	32.77	-	1.0	-	-	0.4	-	1.4
4-8"	48.40	-	-	-	-	-	-	-
9-14"	87.50	-	-	-	-	-	-	-
>14"								
Pipe Runs (LF)	11.40	-	0.2	0.7	0.9	2.3	-	4.2
<4" 8"	13.90	-	3.5	-	1.4	3.6	-	8.5
4-8"	22.05	-	-	-	-	-	-	-
9-14"	31.40	-	-	-	-	-	-	-
>14"								
Sprayed/Troweled Ceilings (SF)	16.00	-	-	-	-	-	-	-
Floor Tile (SF)	2.35	0.1	-	-	-	-	-	0.1
Boilers/Tanks (SF)	20.00	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-
Other								
SUBTOTAL		0.1	6.4	1.4	4.6	8.2	**	20.8
Difficulty Allowance		**	-	-	-	4.1	**	4.2
SUBTOTAL		0.2	6.4	1.4	4.6	12.3	**	25.0
Decontamination Units Mobilization		2.3	2.3	2.3	2.3	2.3	2.3	14.0
SUBTOTAL		0.6	0.6	0.6	0.6	0.6	0.6	3.5
Contingency @ 15.00%		3.1	9.3	4.3	7.5	15.2	3.0	42.5
SUBTOTAL		0.5	1.4	0.7	1.1	2.3	0.4	6.4
Design Fee @ 10.00%		3.6	10.7	5.0	8.6	17.5	3.4	48.8
SUBTOTAL		0.4	1.1	0.5	0.9	1.7	0.3	4.9
Air Monitoring @ 10.00%***		4.0	11.8	5.5	9.5	19.2	3.7	53.7
SUBTOTAL		0.9	0.9	0.9	0.9	0.9	0.9	5.4
TOTAL		4.9	12.7	6.4	10.4	20.1	4.6	59.1

\* Amounts Are In Thousands Of Dollars

\*\* Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

\*\*\* The Minimum Air Monitoring Fee Is \$500.00

AREA 1: 119  
 AREA 2: CRAWLSPACE A  
 AREA 3: CRAWLSPACE B  
 AREA 4: CRAWLSPACE C  
 AREA 5: CRAWLSPACE D  
 AREA 6: ROOF



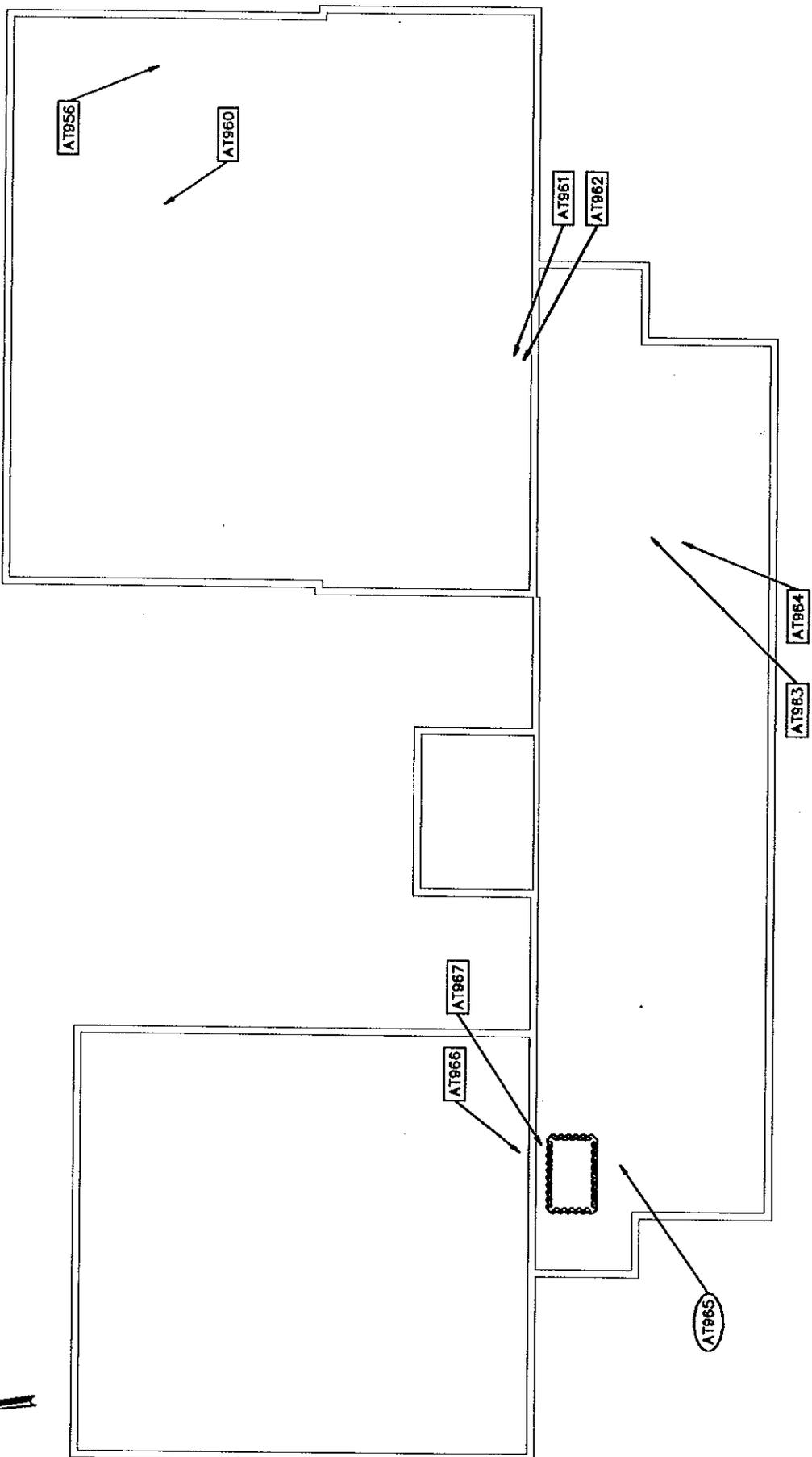
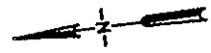
LEGEND	
	PIPES AND FITTINGS
	CONTAMINATED AREA
	FLOOR TILE
	CEMENT PANELS
	CAULK
	DENOTES LOCATION OF SAMPLE WHICH TESTED POSITIVE FOR ASBESTOS.
	DENOTES LOCATION OF SAMPLE WHICH TESTED NEGATIVE FOR ASBESTOS.

ADMINISTRATION BUILDING  
CRAWL SPACE



FIGURE 11.1





LEGEND	
	PIPES AND FITTINGS
	CONTAMINATED AREA
	FLOOR TILE
	TRANSITE
	CAULK

ADMINISTRATION BUILDING  
ROOF



FIGURE 11.1