



**U.S. Army Corps of Engineers
Philadelphia District**

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Comprehensive Asbestos
Survey in Various Buildings at
Fort Monmouth, New Jersey***

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BUILDING REPORTS

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551

EDUCATION CENTER

EDUCATION CENTER**551.1 GENERAL**

Building 551 was surveyed by WESTON technicians on 11 February 1991.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 17 samples of suspect material collected from the building. Of these samples, 12 were found to be asbestos-containing materials (ACM). Table 551.1 lists the analytical results for the bulk samples.

551.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 551 are presented in Table 551.1. An area-by-area inventory of ACM is provided in Tables 551.2 and 551.3. "Other Asbestos-Containing Materials," listed in Table 551.3, are materials that do not correspond to the standard caption categories listed in Table 551.2. A prioritized listing of exposure assessments is presented in Table 551.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 551.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 551.2 and 551.5.

551.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- Asbestos-containing floor tile, pipe insulation, fitting insulation, boiler packing, duct insulation, tank insulation, expansion joint, and plaster ceiling should be labeled under the O&M Program.

TABLE 551.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 551, EDUCATION CENTER

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH645	RESOURCE CENTER,BELOW CEILING	CEILING TILE	WHITE,OTH,2X4 CL TL,HORIZONTAL	-	-	-	NO
FH646	RESOURCE CENTER,BELOW CEILING	CEILING TILE	WHITE,OTH,1X1 CL TL,HORIZONTAL	-	-	-	NO
FH647	CORRIDOR (ALL),BELOW CEILING	FLOOR TILE	TAN,OTH,12X12 FT,HORIZONTAL	-	-	-	NO
FH648	STORAGE A,BELOW CEILING	FLOOR TILE	TAN,OTH,9X9 FL TL,HORIZONTAL	2	-	-	NO
FH649	STORAGE B,BELOW CEILING	OTHER MATERIAL	WHITE,OTH,PLAST. CL,HORIZONTAL	-	-	-	YES
FH650	CORRIDOR,BELOW CEILING	<4" PIPE FITTING	WHITE,DOM,<4IN. FIT,HORIZONTAL	10	-	-	NO
FH651	CLASSROOM 14, 15, 16,BELOW CEILING	CEILING TILE	WHITE,OTH,2X4 CL TL,HORIZONTAL	-	-	-	NO
FH652	CLASSROOM 14, 15, 16,BELOW CEILING	<4" PIPE FITTING	WHITE,HHW,<4IN. FIT,HORIZONTAL	10	-	-	NO
FH653	CLASSROOM 14, 15, 16,BELOW CEILING	<4" PIPE FITTING	WHITE,HHW,<4IN. FIT,HORIZONTAL	5	-	-	NO
FH654	MECH. ROOM,BELOW CEILING	4-8" PIPE FITTING	WHITE,HHW,4-8IN. FIT,HORIZONTAL	5	-	-	NO
FH655	MECH. ROOM,BELOW CEILING	4-8" PIPE FITTING	WHITE,HHW,4-8IN. FIT,HORIZONTAL	5	-	-	NO
FH656	MECH. ROOM,BELOW CEILING	AIR HANDLING EQUIPMENT	WHITE,OTH,DUCT INSUL,HORIZONTAL	45	-	-	NO
FH657	MECH. ROOM,BELOW CEILING	BOILERS/TANKS	WHITE,OTH,TANK INSUL,HORIZONTAL	5	-	-	NO
FH658	MECH. ROOM,BELOW CEILING	9-14" PIPE RUN	WHITE,OTH,BOILER PCK,HORIZONTAL	5	-	-	NO
FH659	MECH. ROOM,BELOW CEILING	EXPANSION JOINT(S)	WHITE,OTH,EXP. JOINT,HORIZONTAL	65	-	-	YES
FH660	MECH. ROOM,BELOW CEILING	OTHER MATERIAL	WHITE,OTH,BOILER PCK,HORIZONTAL	1	-	-	NO
FH661	ADMIN. HALLWAY,BELOW CEILING	OTHER MATERIAL	WHITE,OTH,PLASTER CL,HORIZONTAL	5	-	-	NO

^a 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 551.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 551, EDUCATION CENTER

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROVELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
Admin. Hallway	-	-	-	-	-	-	-	-	-	-	-	-	*
Classroom 10A and B	-	-	-	-	-	-	-	-	-	-	-	-	*
Classroom 11	4	-	-	-	-	-	-	-	-	-	-	-	-
Classroom 12	4	-	-	-	-	-	-	-	-	-	-	-	-
Classroom 14, 15, 16	12	-	-	-	-	-	-	-	-	-	-	-	-
Classroom 17, 18, 19	12	-	-	-	-	-	-	-	-	-	-	-	-
Corridor	6	-	-	-	-	-	-	-	-	-	-	-	-
Corridor Area 1	-	-	-	-	-	-	-	-	-	-	-	0.30	-
Janitor's Closet	-	-	-	-	-	-	-	-	-	-	-	0.10	-
Mech. Room	-	36	-	-	-	-	70	-	-	-	0.08	0.35	*
Storage A	-	-	-	-	-	-	-	-	-	0.29	-	-	-
Storage B	-	-	-	-	-	-	-	-	-	0.29	-	-	-
TOTALS	38	36	-	-	-	-	70	-	-	0.58	0.08	0.75	*

* Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

Table 551.3

Other Asbestos-Containing Material - Building 551, Education Center
Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
Admin. Hallway	Plaster Ceiling	0.600 (MSF)
Mech. Room	Boiler Packing	1 (EA)
Classroom 10 A & B	Plaster Ceiling	14.0 (MSF)

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

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TABLE 551.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 551, EDUCATION CENTER

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH656	Mech. Room	AIR HANDLING EQUIPMENT	B	2.650E02	3	2	2	1	1	2.00	45
FH659	Mech. Room	EXPANSION JOINTS	B	2.650E02	3	2	2	1	1	2.00	65
FH650	Corridor	<4" PIPE FITTING	A	5.920E01	2	1	1	1	160	40.00	10
FH652	Classroom 11	<4" PIPE FITTING	A	5.920E01	2	1	1	1	160	40.00	10
FH652	Classroom 12	<4" PIPE FITTING	A	5.920E01	2	1	1	1	160	40.00	10
FH652	Classroom 14, 15, 16	<4" PIPE FITTING	A	5.920E01	2	1	1	1	160	40.00	10
FH652	Classroom 17, 18, 19	<4" PIPE FITTING	A	5.920E01	2	1	1	1	160	40.00	10
FH654	Mech. Room	4-8" PIPE FITTING	A	1.650E01	3	2	2	1	1	2.00	5
FH655	Mech. Room	4-8" PIPE FITTING	A	1.650E01	3	2	2	1	1	2.00	5
FH657	Mech. Room	BOILERS/TANKS	A	1.650E01	3	2	2	1	1	2.00	5
FH657	Mech. Room	BOILERS/TANKS	A	1.650E01	3	2	2	1	1	2.00	5
FH658	Mech. Room	9-14" PIPE RUN	A	1.650E01	3	2	2	1	1	2.00	5
FH660	Mech. Room	GASKET	A	1.650E01	3	2	2	1	1	2.00	1
FH653	Classroom 14, 15, 16	<4" PIPE FITTING	A	1.040E01	2	1	1	1	160	40.00	5
FH656	Corridor Area 1	AIR HANDLING EQUIPMENT	A	1.000E01	2	1	1	1	10	40.00	45
FH661	Admin. Hallway	PLASTER CEILINGS & WALLS	A	1.950E00	2	1	1	1	30	40.00	5
FH661	Classroom 10A and B	PLASTER CEILINGS & WALLS	A	1.950E00	2	1	1	1	30	40.00	5
FH656	Janitor's Closet	AIR HANDLING EQUIPMENT	A	5.000E-2	2	1	1	1	1	2.00	45
FH645	Administration Area	CEILING TILE	A	0	2	1	1	1	20	40.00	0
FH645	Classroom 10A and B	CEILING TILE	A	0	2	1	1	1	30	40.00	0
FH645	Classroom 11	CEILING TILE	A	0	2	1	1	1	160	40.00	0
FH645	Classroom 12	CEILING TILE	A	0	2	1	1	1	160	40.00	0
FH645	Classroom 19	CEILING TILE	A	0	1	2	1	2	15	40.00	0
FH645	Corridor (All)	CEILING TILE	A	0	2	1	1	1	20	40.00	0
FH645	Resource Center	CEILING TILE	A	0	3	1	1	1	10	40.00	0
FH645	Storage A	CEILING TILE	A	0	1	1	1	1	1	2.00	0
FH646	Corridor (Vending)	CEILING TILE	A	0	2	1	1	1	20	40.00	0
FH646	New Office 116	CEILING TILE	A	0	3	1	1	1	10	40.00	0
FH646	Resource Center	CEILING TILE	A	0	3	1	1	1	10	40.00	0
FH646	Storage B	CEILING TILE	A	0	1	1	1	1	1	2.00	0

Priority Index Codes

A [=] Long Term Corrective Measure
 B [=] Review Management Special Considerations/Remarks
 C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
 2 [=] Occupant Accessibility
 3 [=] Material Condition
 4 [=] Level Of Activity
 5 [=] Number Of Assigned Occupants

TABLE 551.4
(continued)

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 551, EDUCATION CENTER

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH649	Entire Area 1 (Old)	PLASTER CEILINGS & WALLS	A	0	2	1	1	1	10	40.00	0
FH649	Storage B	PLASTER CEILINGS & WALLS	A	0	1	1	1	1	1	2.00	0
FH651	Classroom 14, 15, 16	CEILING TILE	A	0	2	1	1	1	160	40.00	0
FH651	Classroom 17, 18, 19	CEILING TILE	A	0	2	1	1	1	160	40.00	0

Priority Index Codes

A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability

2 [=] Occupant Accessibility

3 [=] Material Condition

4 [=] Level Of Activity

5 [=] Number Of Assigned Occupants

TABLE 551.5

COST ESTIMATE* - BUILDING 551, EDUCATION CENTER

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6	AREA 7	AREA 8	AREA 9	AREA 10	AREA 11
Pipe Fittings (EA)												
<4"	70.30	-	-	0.3	0.3	0.8	0.8	0.4	-	-	-	-
4-8"	82.80	-	-	-	-	-	-	-	-	-	3.1	-
9-14"	142.00	-	-	-	-	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-	-	-	-
Pipe Runs (LF)												
<4"	26.50	-	-	-	-	-	-	-	-	-	-	-
4-8"	50.50	-	-	-	-	-	-	-	-	-	-	-
9-14"	79.50	-	-	-	-	-	-	-	-	-	3.0	-
>14"	60.80	-	-	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	-	-	-	-	-	-	-	-	-	-	1.6
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	3.0	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	6.0	1.9	7.0	-
Other		4.2	9.8	-	-	-	-	-	-	-	0.7	-
SUBTOTAL		4.2	9.8	0.3	0.3	0.8	0.8	0.4	6.0	1.9	16.8	1.6
Difficulty Allowance		8.4	19.6	0.6	0.6	0.8	0.8	0.2	21.0	1.0	6.1	-
SUBTOTAL		12.6	29.4	0.8	0.8	1.7	1.7	0.6	27.0	2.9	22.9	1.6
Decontamination Units Mobilization		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
SUBTOTAL		13.6	30.4	1.9	1.9	2.7	2.7	1.7	28.0	3.9	23.9	2.7
Contingency @ 15.00%		2.0	4.6	0.3	0.3	0.4	0.4	0.3	4.2	0.6	3.6	0.4
SUBTOTAL		15.7	35.0	2.2	2.2	3.1	3.1	1.9	32.2	4.5	27.5	3.1
Design Fee @ 10.00%		1.6	3.5	0.2	0.2	0.3	0.3	0.2	3.2	0.5	2.7	0.3
SUBTOTAL		17.3	38.5	2.4	2.4	3.5	3.5	2.1	35.5	5.0	30.2	3.4
Air Monitoring @ 10.00%***		1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
TOTAL		18.5	39.7	3.6	3.6	4.7	4.7	3.3	36.7	6.2	31.5	4.6

* 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 Per Building

AREA 1: Admin. Hallway
 AREA 3: Classroom 11
 AREA 5: Classroom 14, 15, 16
 AREA 7: Corridor
 AREA 9: Janitor's Closet
 AREA 11: Storage A

AREA 2: Classroom 10A and B
 AREA 4: Classroom 12
 AREA 6: Classroom 17, 18, 19
 AREA 8: Corridor Area 1
 AREA 10: Mech. Room

TABLE 551.5
(continued)
COST ESTIMATE* - BUILDING 551, EDUCATION CENTER

DESCRIPTION	UNIT COST (\$)	AREA 12	TOTAL
Pipe Fittings (EA)			
<4"	70.30	-	2.7
4-8"	89.80	-	5.1
9-14"	127.00	-	-
>14"	216.00	-	-
Pipe Runs (LF)			
<4"	26.50	-	-
4-8"	29.50	-	-
9-14"	29.50	-	3.0
>14"	60.80	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-
Floor Tile (SF)	5.60	1.6	3.2
Boilers/Tanks (SF)	37.90	-	3.0
Air Handling Equipment (SF)	20.00	-	14.9
Other		-	14.7
SUBTOTAL		1.6	44.6
Difficulty Allowance		-	59.0
SUBTOTAL		1.6	103.7
Decontamination Units		0.2	10.5
Mobilization		0.2	2.0
SUBTOTAL		2.7	116.2
Contingency @ 15.00%		0.4	17.4
SUBTOTAL		3.1	133.6
Design Fee @ 10.00%		0.3	13.4
SUBTOTAL		3.4	146.9
Air Monitoring @ 10.00%***		1.2	14.7
TOTAL		4.6	161.6

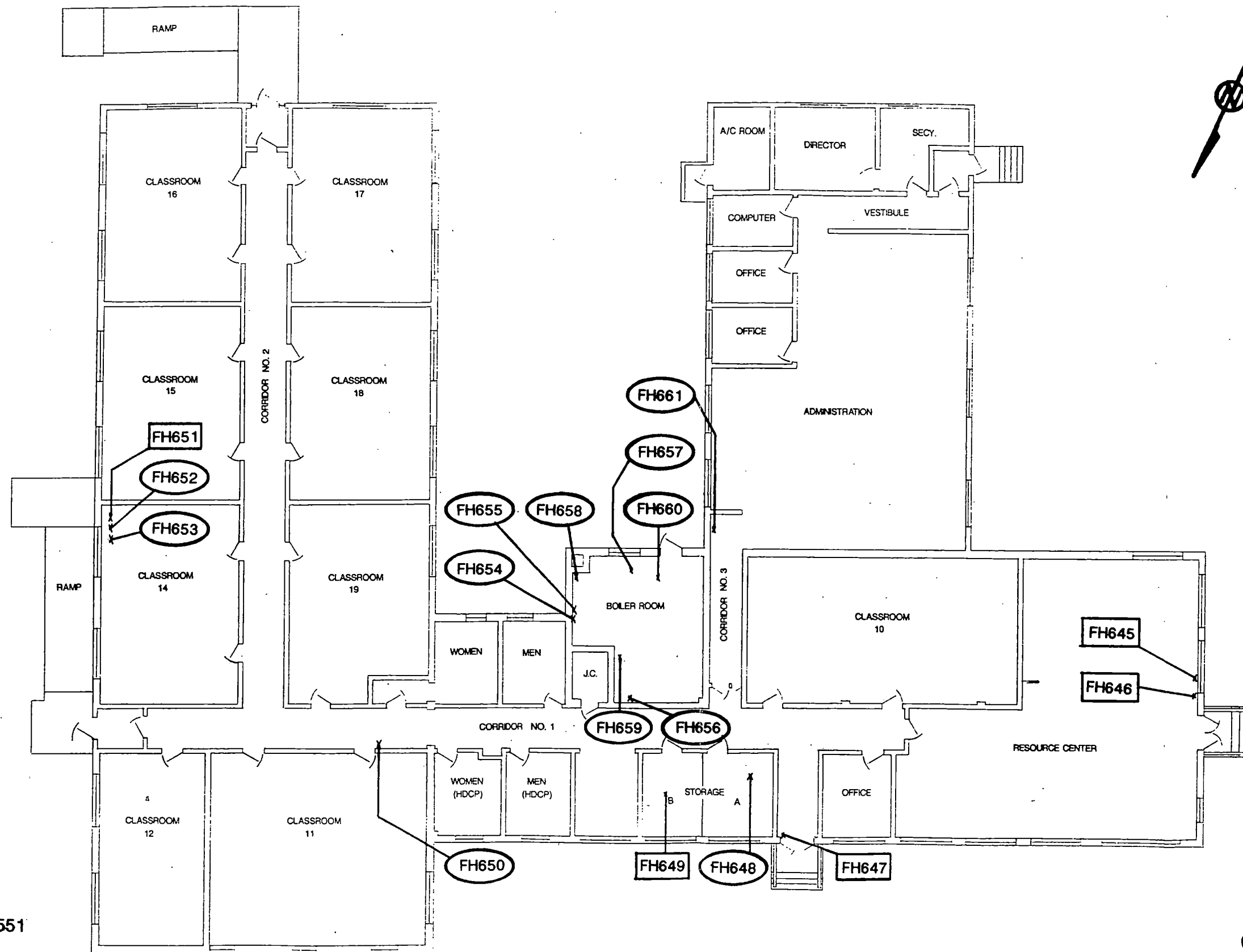
*Amounts Are In Thousands Of Dollars

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

***The Minimum Air Monitoring Fee is \$500.00 Per Building

AREA 12: Storage B

BUILDING 551



LEGEND

- FH651 POSITIVE SAMPLE
- FH645 NEGATIVE SAMPLE



2035

2035

FAMILY HOUSING

FAMILY HOUSING

2035.1 GENERAL

Building 2035 was surveyed by WESTON technicians on 28 January 1991.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 6 samples of suspect material collected from the building. Of these samples, 3 were found to be asbestos-containing materials (ACM). Table 2035.3 lists the analytical results for the bulk samples.

2035.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 2035 are presented in Table 2035.1. An area-by-area inventory of ACM is provided in Tables 2035.2 and 2035.3. "Other Asbestos-Containing Materials," listed in Table 2035.3, are materials that do not correspond to the standard caption categories listed in Table 2035.2. A prioritized listing of exposure assessments is presented in Table 2035.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 2035.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 2035.2 and 2035.5.

2035.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- The basement and basement crawlspace in Building 2035 qualify for the Army Asbestos Deficiency Abatement Project.

TABLE 2035.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 2035, FAMILY HOUSING

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH666	BASEMENT,BELOW CEILING	<4" PIPE RUN	WHITE,STM,<4IN. RUN,HORIZONTAL	15	-	-	YES
FH667	BASEMENT,BELOW CEILING	4-8" PIPE RUN	WHITE,STM,4-8IN. RUN,HORIZONTAL	30	-	-	NO
FH668	KITCHEN & STORAGE,BELOW CEILING	FLOOR TILE	TAN,OTH,1X1 FL TL,HORIZONTAL	-	-	-	YES
FH669	ATTIC INSULATION,BELOW CEILING	OTHER MATERIAL	BROWN,OTH,ATTIC INSU,HORIZONTAL	-	-	-	NO
FH670	BASEMENT CRAWL SPACE,BELOW CEILING	4-8" PIPE RUN	WHITE,STM,4-8IN. RUN,HORIZONTAL	50	-	-	NO
FH671	KITCHEN STORAGE,BELOW CEILING	FLOOR TILE	TAN,OTH,1X1 FL TL,HORIZONTAL	-	-	-	NO

^aAsbestos 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 2035.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 2035, FAMILY HOUSING

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROVELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
Basement	-	-	-	-	1000	1000	-	-	-	-	-	-	-
Basement Crawl Space	-	-	-	-	-	1	-	-	-	-	-	-	-
TOTALS	-	-	-	-	1000	1001	-	-	-	-	-	-	-

* Other Material Present In Various Units Of Measure

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

Table 2035.3

**Other Asbestos-Containing Material - Building 2035, Family Housing
Type Occupancy: Adults (Public)**

Area	Material Type	Quantity (Unit)
No Other Asbestos-Containing Material Found in this Building		

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

2035-5

TABLE 2035.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2035, FAMILY HOUSING

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH670	Basement Crawl Space	4-8" PIPE RUN	C	3.750E03	3	3	2	1	2	5.00	50
FH666	Basement	<4" PIPE RUN	C	1.325E03	3	3	2	1	2	5.00	15
FH667	Basement	4-8" PIPE RUN	C	1.325E03	3	3	2	1	2	5.00	30

Priority Index Codes

A [=] Long Term Corrective Measure
 B [=] Review Management Special Considerations/Remarks
 C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
 2 [=] Occupant Accessibility
 3 [=] Material Condition
 4 [=] Level Of Activity
 5 [=] Number Of Assigned Occupants

TABLE 2035.5

COST ESTIMATE* - BUILDING 2035, FAMILY HOUSING

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	TOTAL
Pipe Fittings (EA)				
<4"	70.30	-	-	-
4-8"	85.80	-	-	-
9-14"	147.00	-	-	-
>14"	216.00	-	-	-
Pipe Runs (LF)				
<4"	26.50	26.5	-	26.5
4-8"	30.50	30.5	**	30.5
9-14"	46.80	-	-	-
>14"	60.80	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-
Floor Tile (SF)	5.60	-	-	-
Boilers/Tanks (SF)	37.90	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-
Other		-	-	-
SUBTOTAL		57.0	**	57.0
Difficulty Allowance		-	-	-
SUBTOTAL		57.0	**	57.0
Decontamination Units Mobilization		1.5 1.0	1.5 1.0	3.0 2.0
SUBTOTAL		59.5	2.5	62.0
Contingency @ 15.00%		8.9	0.4	9.3
SUBTOTAL		68.4	2.9	71.3
Design Fee @ 10.00%		6.8	0.3	7.1
SUBTOTAL		75.3	3.2	78.5
Air Monitoring @ 10.00%***		3.9	3.9	7.8
TOTAL		79.2	7.1	86.3

* Amounts Are In Thousands Of Dollars

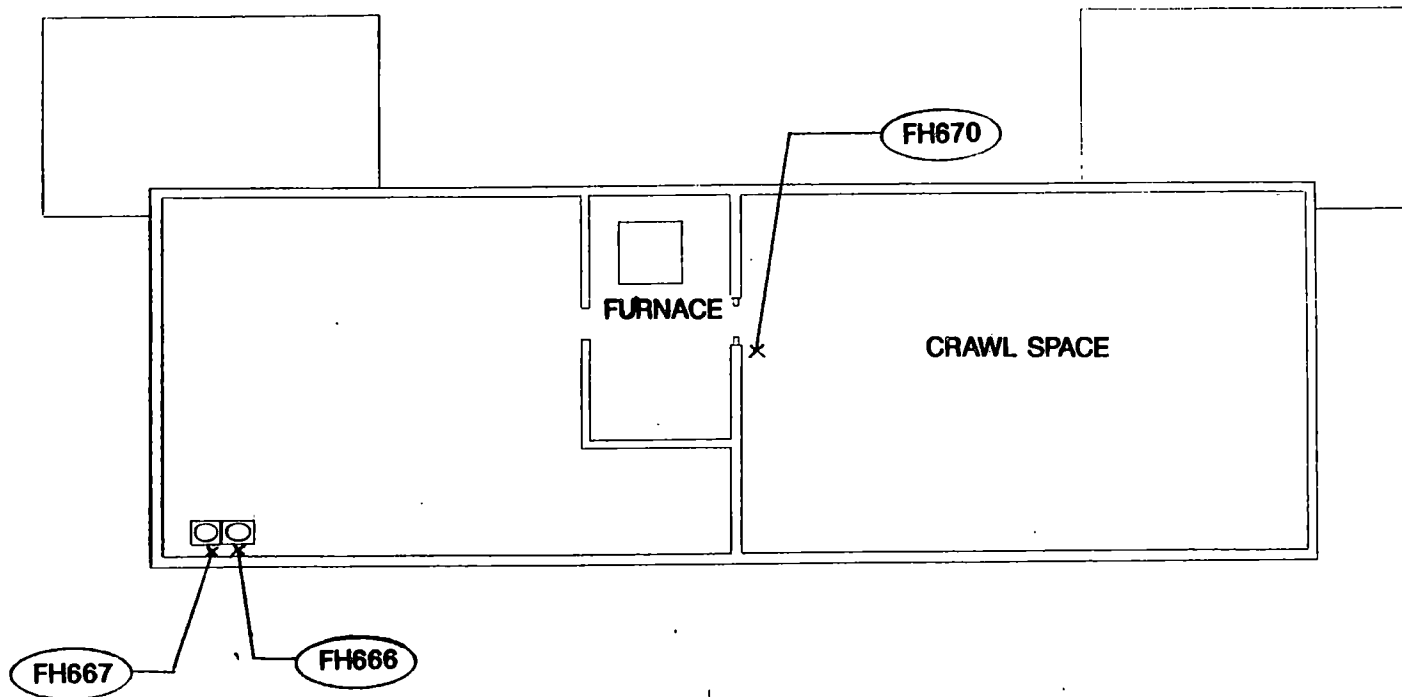
** Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

*** The Minimum Air Monitoring Fee is \$500.00 Per Building

AREA 1: Basement

AREA 2: Basement Crawl Space

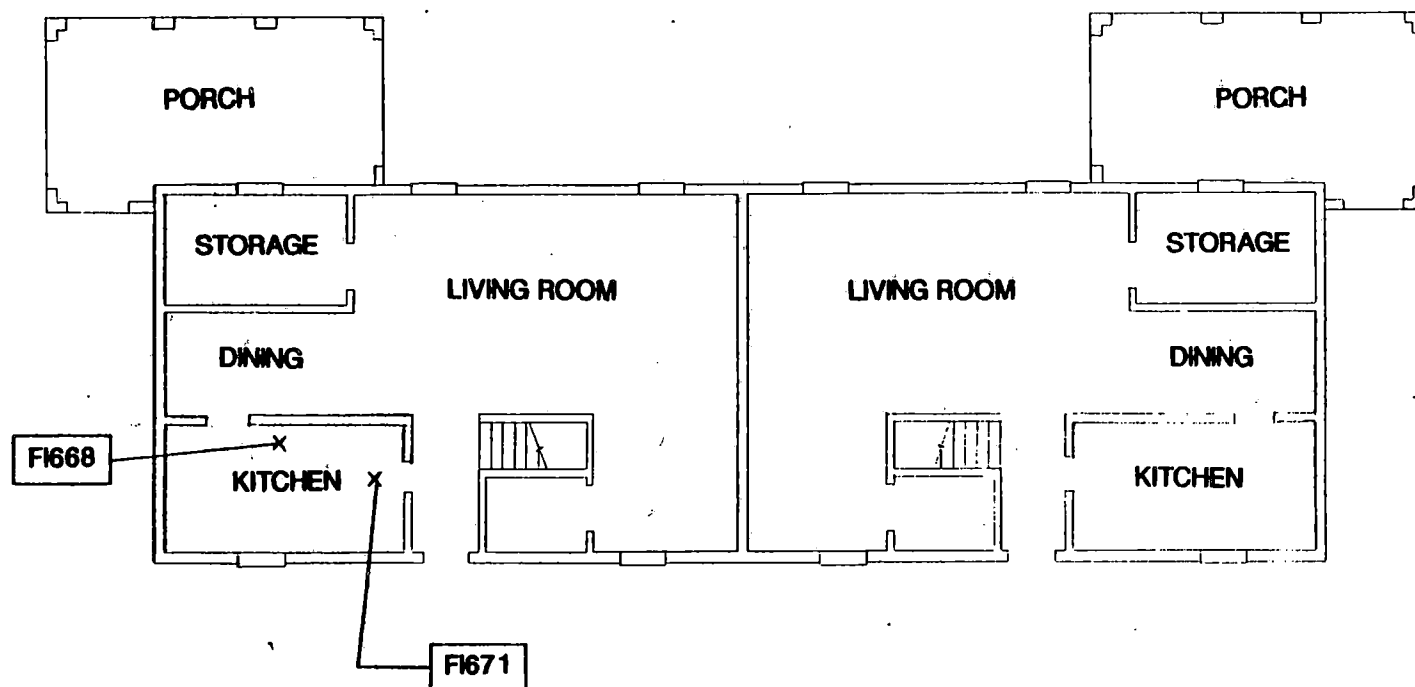
2035-8



BASEMENT UNIT 40 & 42
BUILDING 2035

LEGEND

-  POSITIVE SAMPLE
 NEGATIVE SAMPLE

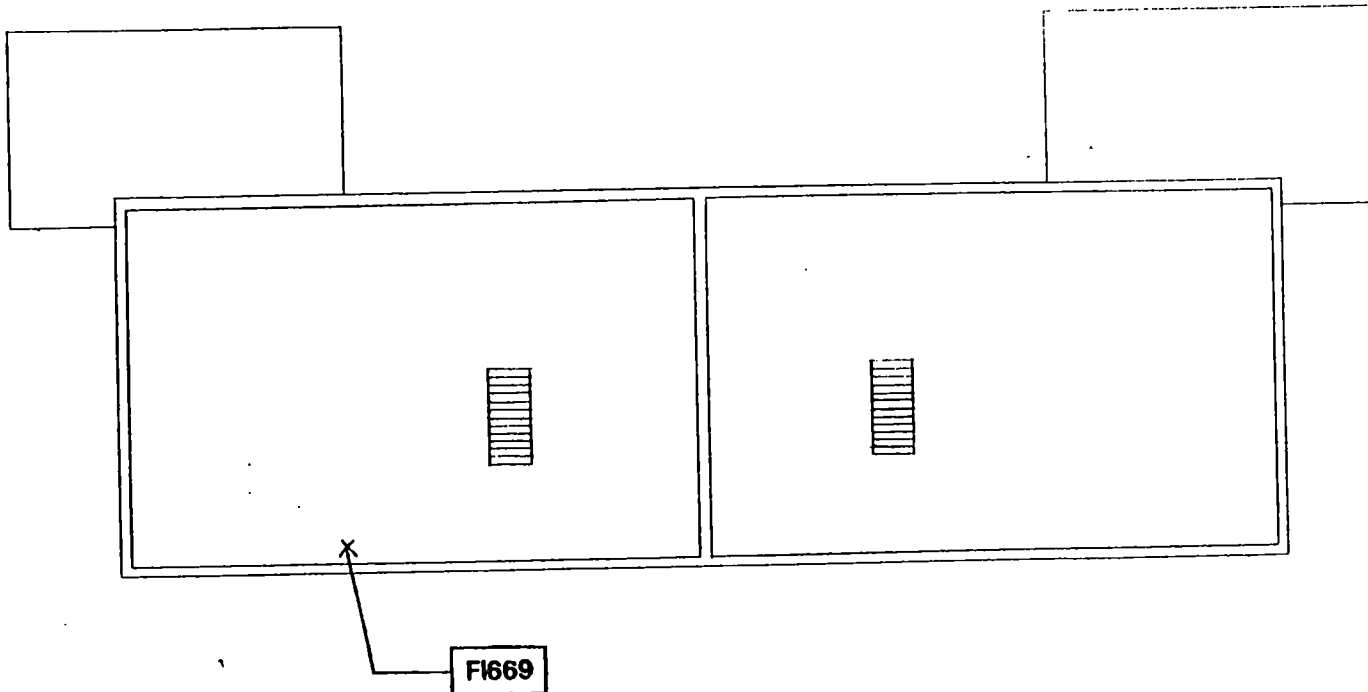


FIRST FLOOR UNIT 40 & 42
BUILDING 2035

LEGEND

-  POSITIVE SAMPLE
-  NEGATIVE SAMPLE

2035-10



ATTIC UNIT 40 & 42
BUILDING 2035

LEGEND

 POSITIVE SAMPLE

 NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

2067

2 57

2067

5 10

PRO SHOP/GOLF CLUB

PRO SHOP/GOLF CLUB

2067.1 GENERAL

Building 2067 was surveyed by WESTON technicians on 9 January 1991.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 2 samples of suspect material collected from the building. Of these samples, 1 was found to be asbestos-containing materials (ACM). Table 2067.1 lists the analytical results for the bulk samples.

2067.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 2067 are presented in Table 2067.1. An area-by-area inventory of ACM is provided in Tables 2067.2 and 2067.3. "Other Asbestos-Containing Materials," listed in Table 2067.3, are materials that do not correspond to the standard caption categories listed in Table 2067.2. A prioritized listing of exposure assessments is presented in Table 2067.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 2067.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 2067.2 and 2067.5.

2067.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- The cart storage in Building 2067 qualifies for the Army Asbestos Deficiency Abatement Project.

TABLE 2067.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 2067, PRO SHOP/GOLF CLUB

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH512	EXIT. CART STORAGE,BELOW CEILING	BOILERS/TANKS	GRAY,OTH,FURN.INSUL,HORIZONTAL	35	-	-	NO
FH513	PRO SHOP,BELOW CEILING	CEILING TILE	TAN,OTH,1X1 CL TL,HORIZONTAL	-	-	-	NO

^aAsbestos 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 2067.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 2067, PRO SHOP/GOLF CLUB

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROVELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
Exit. Cart Storage	-	-	-	-	-	-	-	-	-	-	0.01	-	-
TOTALS	-	-	-	-	-	-	-	-	-	-	0.01	-	-

* Other Material Present: In Various Units Of Measure

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

Table 2067.3

Other Asbestos-Containing Material - Building 2067, Pro Shop/Golf Club
Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
No Other Asbestos-Containing Material Found in this Building		

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

2067-5

TABLE 2067.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2067, PRO SHOP/GOLF CLUB

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH512	Exit. Cart Storage	BOILERS/TANKS	C	1.650E03	3	2	2	2	3	2.00	35
FH513	Pro Shop	CEILING TILE	A	0	1	2	1	2	3	40.00	0

Priority Index Codes

A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability

2 [=] Occupant Accessibility

3 [=] Material Condition

4 [=] Level Of Activity

5 [=] Number Of Assigned Occupants

TABLE 2067.5

COST ESTIMATE* - BUILDING 2067, PRO SHOP/GOLF CLUB

DESCRIPTION	UNIT COST (\$)	AREA 1	TOTAL
Pipe Fittings (EA)			
<4"	70.30	-	-
4-8"	85.80	-	-
9-14"	147.00	-	-
>14"	216.00	-	-
Pipe Runs (LF)			
<4"	26.50	-	-
4-8"	30.20	-	-
9-14"	42.20	-	-
>14"	60.80	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-
Floor Tile (SF)	5.60	-	-
Boilers/Tanks (SF)	37.90	0.5	0.5
Air Handling Equipment (SF)	20.00	-	-
Other		-	-
SUBTOTAL		0.5	0.5
Difficulty Allowance		-	-
SUBTOTAL		0.5	0.5
Decontamination Units		0.5	0.5
Mobilization		2.0	2.0
SUBTOTAL		3.0	3.0
Contingency @ 15.00%		0.4	0.4
SUBTOTAL		3.4	3.4
Design Fee @ 10.00%		0.3	0.3
SUBTOTAL		3.7	3.7
Air Monitoring @ 10.00%***		0.5	0.5
TOTAL		4.2	4.2

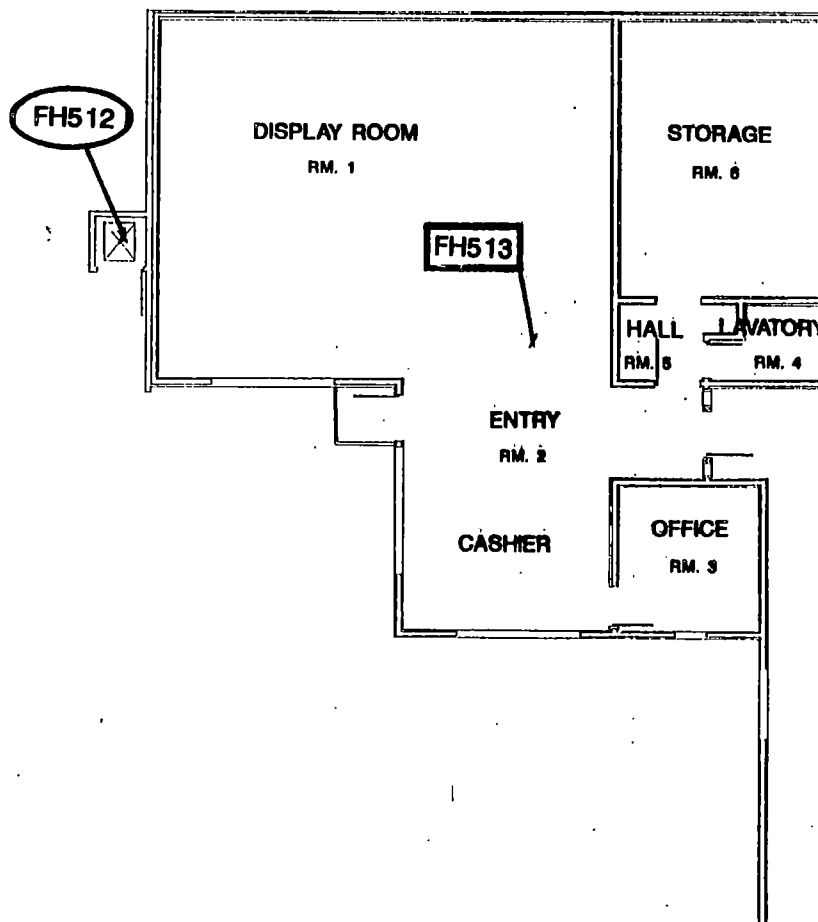
* Amounts Are In Thousands Of Dollars

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

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

AREA 1: Exit. Cart Storage

2067-8



BLDG. 2067

LEGEND

FHnnnn POSITIVE SAMPLE

FHnnnn NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

2100

2100

FAMILY HOUSING

FAMILY HOUSING

2100.1 GENERAL

Building 2100 was surveyed by WESTON technicians on 30 January 1991.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 3 samples of suspect material collected from the building. Of these samples, 1 was found to be asbestos-containing materials (ACM). Table 2100.1 lists the analytical results for the bulk samples.

2100.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 2100 are presented in Table 2100.1. An area-by-area inventory of ACM is provided in Tables 2100.2 and 2100.3. "Other Asbestos-Containing Materials," listed in Table 2100.3, are materials that do not correspond to the standard caption categories listed in Table 2100.2. A prioritized listing of exposure assessments is presented in Table 2100.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 2100.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 2100.2 and 2100.5.

2100.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- Asbestos-containing floor tile in Building 2100 should be labeled under the O&M Program.

TABLE 2100.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 2100, FAMILY HSG#1MARSHALL

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH672	DINING ROOM,BELOW CEILING	FLOOR TILE	GRAY,OTH,1X1 FL TL,HORIZONTAL	-	-	-	NO
FH673	KITCHEN,BELOW CEILING	FLOOR TILE	TAN,OTH,1X1 FL TL,HORIZONTAL	10	-	-	YES
FH674	BEDROOMS 3,BELOW CEILING	FLOOR TILE	GRAY,OTH,1X1 FL TL,HORIZONTAL	10	-	-	YES

^aAsbestos 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 2100.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 2100, FAMILY HSG#1MARSHALL

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROVELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
Bedrooms 3	-	-	-	-	-	-	-	-	-	0.50	-	-	-
Kitchen	-	-	-	-	-	-	-	-	-	0.24	-	-	-
Kitchen & Dining Rm.	-	-	-	-	-	-	-	-	-	0.12	-	-	-
TOTALS	-	-	-	-	-	-	-	-	-	0.86	-	-	-

* Other Material Present In Various Units Of Measure

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

Table 2100.3

**Other Asbestos-Containing Material - Building 2100, Family Housing
Type Occupancy: Adults (Public)**

Area	Material Type	Quantity (Unit)
No Other Asbestos-Containing Material Found in this Building		

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

2100-5

TABLE 2100.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2100, FAMILY HOUSING

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		

Only Non-Friable Material Was Detected In This Building
Exposure Assessments Are Not Available

Priority Index Codes

- A [=] Long Term Corrective Measure
- B [=] Review Management Special Considerations/Remarks
- C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

- 1 [=] Material Friability
- 2 [=] Occupant Accessibility
- 3 [=] Material Condition
- 4 [=] Level Of Activity
- 5 [=] Number Of Assigned Occupants

TABLE 2100.5

COST ESTIMATE* - BUILDING 2100, FAMILY HOUSING

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	TOTAL
Pipe Fittings (EA)					
<4"	70.30	-	-	-	-
4-8"	85.80	-	-	-	-
9-14"	147.00	-	-	-	-
>14"	216.00	-	-	-	-
Pipe Runs (LF)					
<4"	26.50	-	-	-	-
4-8"	40.50	-	-	-	-
9-14"	72.50	-	-	-	-
>14"	60.80	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-
Floor Tile (SF)	5.60	2.8	1.3	0.7	4.8
Boilers/Tanks (SF)	37.90	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-
Other		-	-	-	-
SUBTOTAL		2.8	1.3	0.7	4.8
Difficulty Allowance		-	-	-	-
SUBTOTAL		2.8	1.3	0.7	4.8
Decontamination Units Mobilization		1.0 0.7	1.0 0.7	1.0 0.7	3.0 2.0
SUBTOTAL		4.5	3.0	2.3	9.8
Contingency @ 15.00%		0.7	0.5	0.4	1.5
SUBTOTAL		5.1	3.5	2.7	11.3
Design Fee @ 10.00%		0.5	0.3	0.3	1.1
SUBTOTAL		5.7	3.8	3.0	12.4
Air Monitoring @ 10.00%***		0.4	0.4	0.4	1.2
TOTAL		6.1	4.2	3.4	13.7

* Amounts Are In Thousands Of Dollars

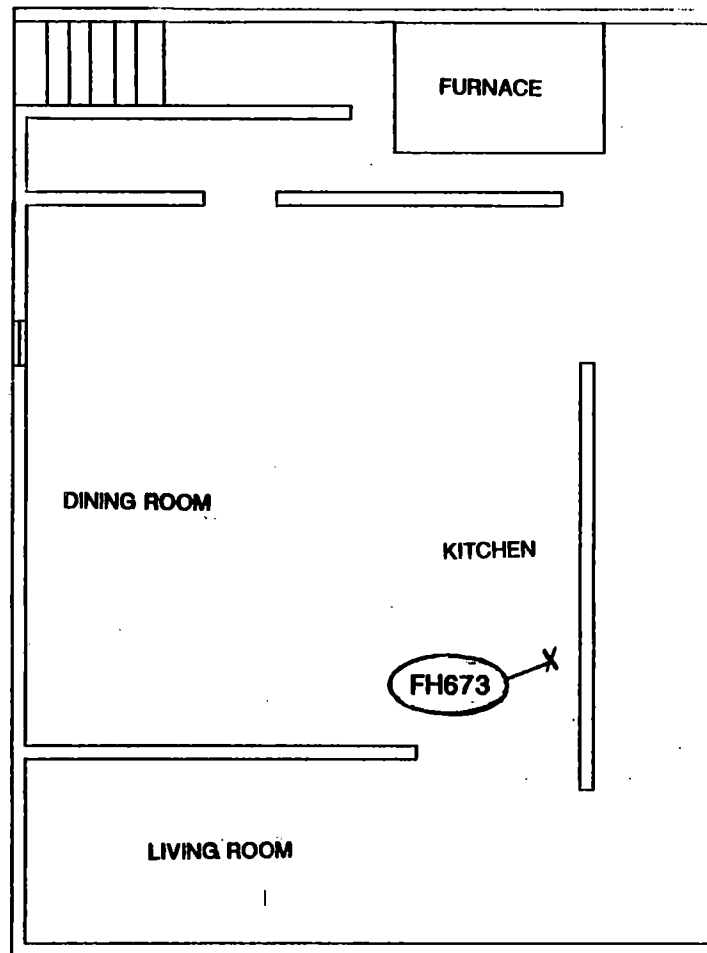
** Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

*** The Minimum Air Monitoring Fee is \$500.00 Per Building

AREA 1: Bedroom
AREA 3: Kitchen & Dining Rm.

AREA 2: Kitchen

2100-8

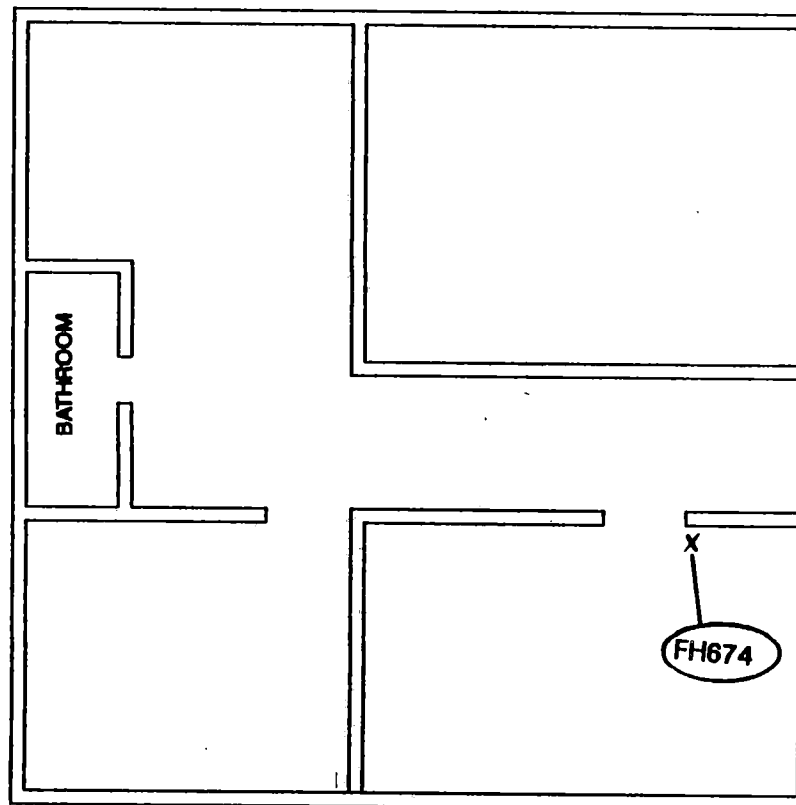


BLDG 2100 UNIT 1
FIRST FLOOR PLAN

LEGEND

-  POSITIVE SAMPLE
 NEGATIVE SAMPLE

2100-9



BLDG. 2100 UNIT 1
SECOND FLOOR PLAN

LEGEND

 POSITIVE SAMPLE

 NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

2232

2232

FAMILY HOUSING

FAMILY HOUSING

2232.1 GENERAL

Building 2232 was surveyed by WESTON technicians on 25 January 1991.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 5 samples of suspect material collected from the building. Of these samples, 3 were found to be asbestos-containing materials (ACM). Table 2232.1 lists the analytical results for the bulk samples.

2232.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 2232 are presented in Table 2232.1. An area-by-area inventory of ACM is provided in Tables 2232.2 and 2232.3. "Other Asbestos-Containing Materials," listed in Table 2232.3, are materials that do not correspond to the standard caption categories listed in Table 2232.2. A prioritized listing of exposure assessments is presented in Table 2232.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 2232.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 2232.2 and 2232.5.

2232.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- The basement crawlspace, mechanical room, and storage room in Building 2232 qualify for the Army Asbestos Deficiency Abatement Project.

TABLE 2232.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 2232, FAMILY HOUSING

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH639	BASEMENT MECH. ROOM,BELOW CEILING	4-8" PIPE RUN	WHITE,STM,4-8IN. RUN,HORIZONTAL	65	-	-	NO
FH640	BASEMENT STORAGE,BELOW CEILING	4-8" PIPE RUN	WHITE,STM,4-8IN. RUN,HORIZONTAL	60	-	-	NO
FH641	BASEMENT STORAGE,BELOW CEILING	<4" PIPE RUN	WHITE,STM,<4IN. RUN,HORIZONTAL	25	-	-	YES
FH642	KITCHEN,BELOW CEILING	FLOOR TILE	GRAY,OTH,1X1 FL TL,HORIZONTAL	-	-	-	NO
FH643	UTILITY ROOM,BELOW CEILING	FLOOR TILE	GRAY,OTH,1X1 FL TL,HORIZONTAL	-	-	-	NO

^a 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 2232.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 2232, FAMILY HOUSING

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"	9-14"	>14"					
Basement	-	-	-	-	80	-	-	-	-	-	-	-	-
Basement Crawl Space	-	-	-	-	-	400	-	-	-	-	-	-	-
Basement Mech. Room	-	-	-	-	-	400	-	-	-	-	-	-	-
Basement Storage	-	-	-	-	80	1	-	-	-	-	-	-	-
TOTALS	-	-	-	-	160	801	-	-	-	-	-	-	-

* Other Material Present In Various Units Of Measure

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

Table 2232.3

**Other Asbestos-Containing Material - Building 2232, Family Housing
Type Occupancy: Adults (Public)**

Area	Material Type	Quantity (Unit)
No Other Asbestos-Containing Material Found in this Building		

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

2232-5

TABLE 2232.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2232, FAMILY HOUSING

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH639	Basement Crawl Space	4-8" PIPE RUN	C	3.750E03	3	3	2	1	2	5.00	65
FH639	Basement Mech. Room	4-8" PIPE RUN	C	3.750E03	3	3	2	1	2	5.00	65
FH640	Basement Storage	4-8" PIPE RUN	C	3.750E03	3	3	2	1	2	5.00	60
FH641	Basement	<4" PIPE RUN	C	1.325E03	3	3	2	1	2	5.00	25
FH641	Basement Storage	<4" PIPE RUN	C	1.325E03	3	3	2	1	2	5.00	25

Priority Index Codes

A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability

2 [=] Occupant Accessibility

3 [=] Material Condition

4 [=] Level Of Activity

5 [=] Number Of Assigned Occupants

TABLE 2232.5

COST ESTIMATE* - BUILDING 2232, FAMILY HOUSING

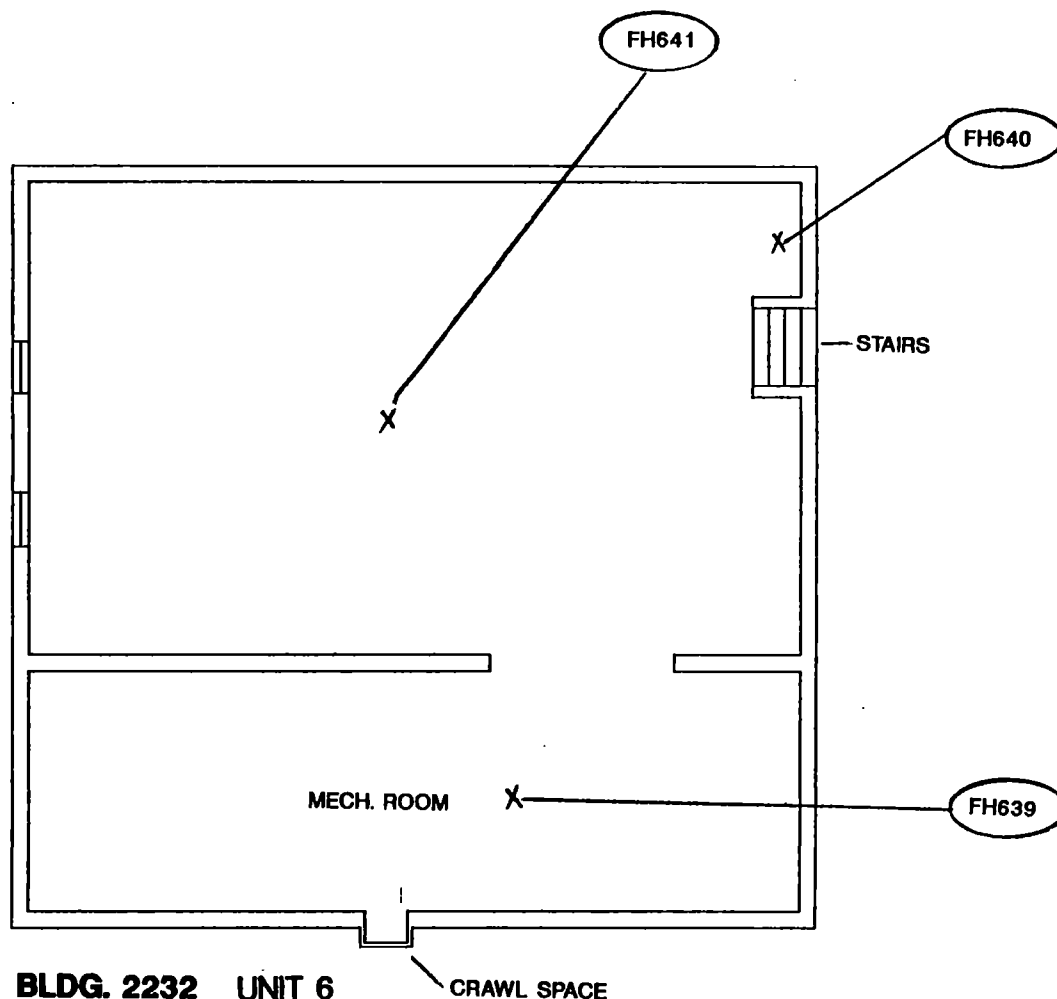
DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	TOTAL
Pipe Fittings (EA)						
<4"	70.30	-	-	-	-	-
4-8"	85.80	-	-	-	-	-
9-14"	147.00	-	-	-	-	-
>14"	216.00	-	-	-	-	-
Pipe Runs (LF)						
<4"	26.50	2.1	12.2	12.2	2.1	4.2
4-8"	50.50	-	-	-	-	-
9-14"	73.50	-	-	-	-	-
>14"	60.80	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-
Floor Tile (SF)	5.60	-	-	-	-	-
Boilers/Tanks (SF)	37.90	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-
Other	-	-	-	-	-	-
SUBTOTAL		2.1	12.2	12.2	2.2	28.7
Difficulty Allowance		-	-	-	-	-
SUBTOTAL		2.1	12.2	12.2	2.2	28.7
Decontamination Units		0.9	0.9	0.9	0.9	3.5
Mobilization		0.5	0.5	0.5	0.5	2.0
SUBTOTAL		3.5	13.6	13.6	3.5	34.2
Contingency @ 15.00%		0.5	2.0	2.0	0.5	5.1
SUBTOTAL		4.0	15.6	15.6	4.1	39.3
Design Fee @ 10.00%		0.4	1.6	1.6	0.4	3.9
SUBTOTAL		4.4	17.2	17.2	4.5	43.2
Air Monitoring @ 10.00%***		1.1	1.1	1.1	1.1	4.3
TOTAL		5.5	18.3	18.3	5.5	47.5

* 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 Per Building

AREA 1: Basement
AREA 3: Basement Mech. RoomAREA 2: Basement Crawl Space
AREA 4: Basement Storage



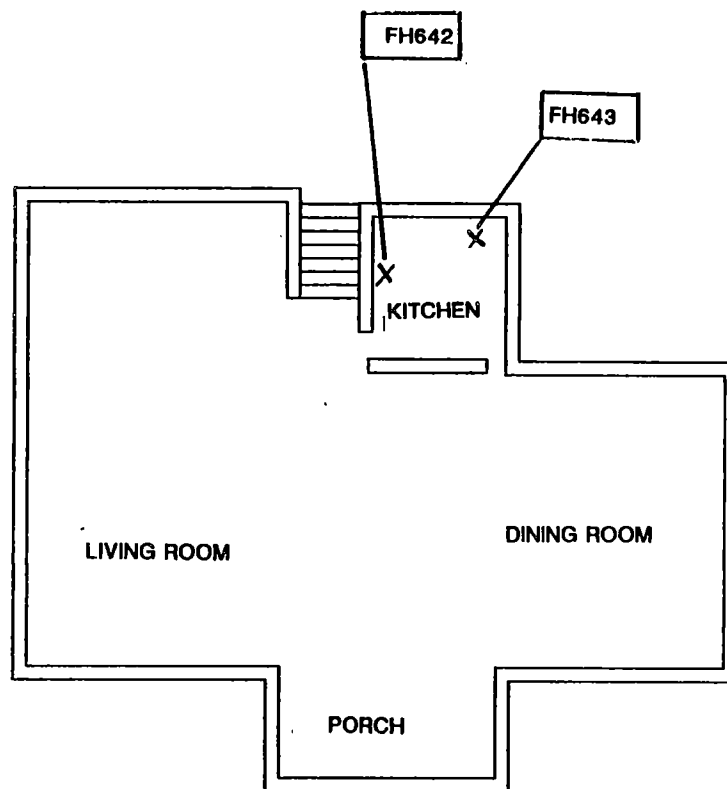
**BLDG. 2232 UNIT 6
BASEMENT PLAN**

LEGEND

- FHnnn POSITIVE SAMPLE
- FHnnn NEGATIVE SAMPLE



2232-9



**BLDG. 2232 UNIT 6
FIRST FLOOR PLAN**

LEGEND

FHnnn POSITIVE SAMPLE

FHnnn NEGATIVE SAMPLE

2287

2287

FAMILY HOUSING

FAMILY HOUSING**2287.1 GENERAL**

Building 2287 was surveyed by WESTON technicians on 28 January 1991. Complete inspections (CI) for ACM were performed in Units 49 and 51 of this building. The inspections confirmed two different results. The sample collected in Unit 49 was found to be non-ACM while the sample collected in Unit 51 was found to be ACM.

The rest of the units in Building 2287, Units 41, 43, 45, 47, 53, 55, 57, 59, 61, and 63 were assumed to have similar type and quantity of ACM found in Unit 51 in order to show the "worst case scenario" with respect to asbestos abatement. No actual inspection or sampling for ACM was performed in the similar units. Refer to the guide document for further discussions on complete inspections (CI) and similar unit(s).

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 2 samples of suspect material collected from the building. Of these samples, one was found to be asbestos-containing materials (ACM). Table 2287.1 lists the analytical results for the bulk samples.

2287.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 2287 are presented in Table 2287.1. An area-by-area inventory of ACM is provided in Tables 2287.2 and 2287.3. "Other Asbestos-Containing Materials," listed in Table 2287.3, are materials that do not correspond to the standard caption categories listed in Table 2287.2. A prioritized listing of exposure assessments is presented in Table 2287.4. An itemized area-by-area cost

estimate for removal and replacement is provided in Table 2287.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 2287.2 and 2287.5.

2287.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- Asbestos-containing floor tile should be labeled under the O&M Program.

TABLE 2287.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 2287, FAMILY HOUSING

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH672	KITCHEN QTRS. NO. 49,BELOW CEILING	FLOOR TILE	GRAY,OTH,1X1 FL TL	-	-	-	NO
FH675	KITCHEN QTRS. #51,BELOW CEILING	FLOOR TILE	BROWN,OTH,9X9 FL TL	2	-	-	NO

^aAsbestos 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 2287.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 2287, FAMILY HOUSING

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROVELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
UNIT 41 (S)	-	-	-	-	-	-	-	-	-	0.08	-	-	-
UNIT 43 (S)	-	-	-	-	-	-	-	-	-	0.08	-	-	-
UNIT 45 (S)	-	-	-	-	-	-	-	-	-	0.08	-	-	-
UNIT 47 (S)	-	-	-	-	-	-	-	-	-	0.08	-	-	-
UNIT 51 (CI)	-	-	-	-	-	-	-	-	-	0.08	-	-	-
UNIT 53 (S)	-	-	-	-	-	-	-	-	-	0.08	-	-	-
UNIT 55 (S)	-	-	-	-	-	-	-	-	-	0.08	-	-	-
UNIT 57 (S)	-	-	-	-	-	-	-	-	-	0.08	-	-	-
UNIT 59 (S)	-	-	-	-	-	-	-	-	-	0.08	-	-	-
UNIT 61 (S)	-	-	-	-	-	-	-	-	-	0.08	-	-	-
UNIT 63 (S)	-	-	-	-	-	-	-	-	-	0.08	-	-	-
TOTALS	-	-	-	-	-	-	-	-	-	0.88	-	-	-

* Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

Table 2287.3

**Other Asbestos-Containing Material - Building 2287 - Family Quarters
Type Occupancy: Adults (Public)**

Area	Material Type	Quantity (Unit)
No Other Asbestos-Containing Material Found in this Building		

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

2287-5

TABLE 2287.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2287, FAMILY HOUSING

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		

Only Non-Friable Material Was Detected In This Building
Exposure Assessments Are Not Available

Priority Index Codes

- A [=] Long Term Corrective Measure
- B [=] Review Management Special Considerations/Remarks
- C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

- 1 [=] Material Friability
- 2 [=] Occupant Accessibility
- 3 [=] Material Condition
- 4 [=] Level Of Activity
- 5 [=] Number Of Assigned Occupants

TABLE 2287.5

COST ESTIMATE* - BUILDING 2287, FAMILY HOUSING

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6	AREA 7	AREA 8	AREA 9	AREA 10	AREA 11
Pipe Fittings (EA)												
<4"	70.30	-	-	-	-	-	-	-	-	-	-	-
4-8"	85.80	-	-	-	-	-	-	-	-	-	-	-
9-14"	147.00	-	-	-	-	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-	-	-	-
Pipe Runs (LF)												
<4"	26.50	-	-	-	-	-	-	-	-	-	-	-
4-8"	30.50	-	-	-	-	-	-	-	-	-	-	-
9-14"	42.50	-	-	-	-	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-
SUBTOTAL		0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Difficulty Allowance		-	-	-	-	-	-	-	-	-	-	-
SUBTOTAL		0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Decontamination Units Mobilization		0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
SUBTOTAL		0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Contingency @ 15.00%		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
SUBTOTAL		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Design Fee @ 10.00%		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
SUBTOTAL		1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Air Monitoring @ 10.00%***		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
TOTAL		1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3

* 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 Per Building

AREA 1: UNIT 41 (\$)
 AREA 2: UNIT 42 (\$)
 AREA 3: UNIT 51 (\$)
 AREA 4: UNIT 52 (\$)
 AREA 5: UNIT 53 (\$)
 AREA 6: UNIT 54 (\$)
 AREA 7: UNIT 55 (\$)
 AREA 8: UNIT 56 (\$)
 AREA 9: UNIT 57 (\$)
 AREA 10: UNIT 58 (\$)
 AREA 11: UNIT 59 (\$)

AREA 2: UNIT 43 (\$)
 AREA 4: UNIT 47 (\$)
 AREA 6: UNIT 53 (\$)
 AREA 8: UNIT 57 (\$)
 AREA 10: UNIT 61 (\$)

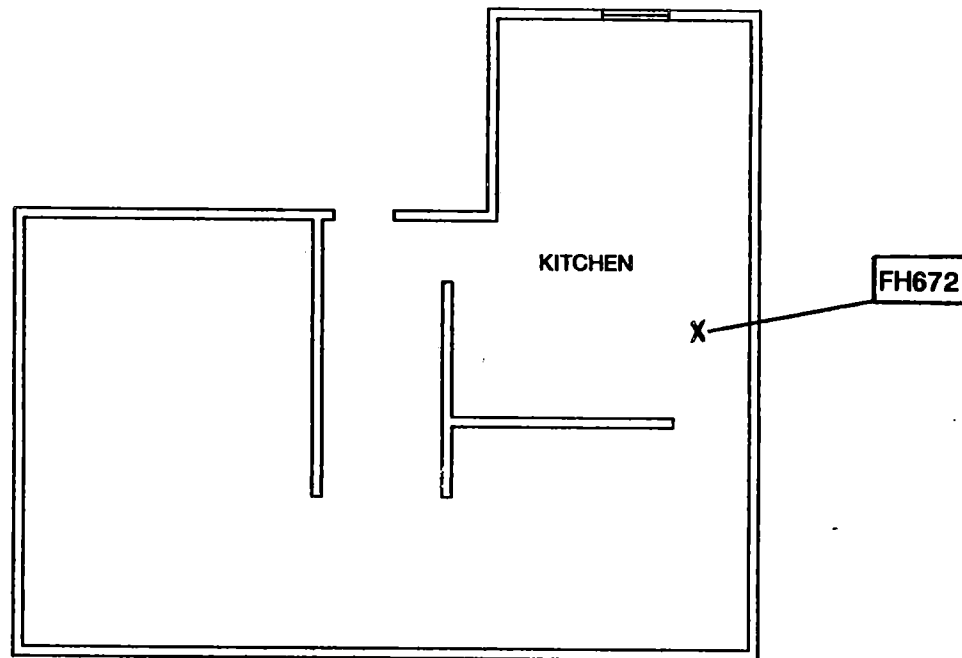
TABLE 2287.5
(continued)
COST ESTIMATE* - BUILDING 2287, FAMILY HOUSING

DESCRIPTION	UNIT COST (\$)	TOTAL
Pipe Fittings (EA)		
<4"	70.30	-
4-8"	85.80	-
8-14"	147.00	-
>14"	216.00	-
Pipe Runs (LF)		
<4"	26.50	-
4-8"	30.50	-
8-14"	72.80	-
>14"	80.80	-
Sprayed/Troweled Ceilings (SF)	9.60	-
Floor Tile (SF)	5.60	4.9
Boilers/Tanks (SF)	37.90	-
Air Handling Equipment (SF)	20.00	-
Other		-
SUBTOTAL		4.9
Difficulty Allowance		-
SUBTOTAL		4.9
Decontamination Units		3.0
Mobilization		2.0
SUBTOTAL		9.9
Contingency @ 15.00%		1.5
SUBTOTAL		11.4
Design Fee @ 10.00%		1.1
SUBTOTAL		12.6
Air Monitoring @ 10.00%***		1.3
TOTAL		13.8

* 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 Per Building



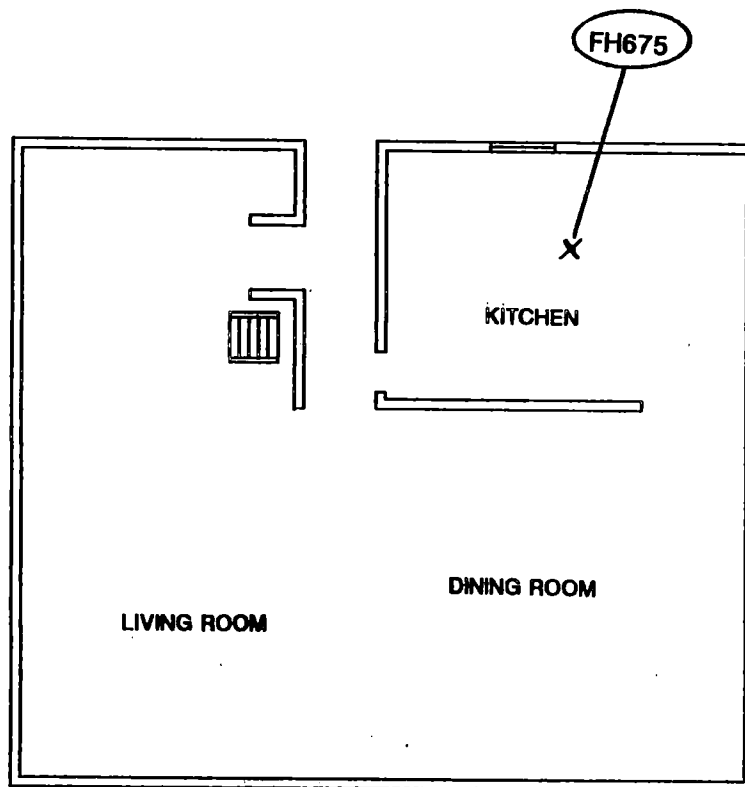
BLDG. 2287 UNIT 49
FIRST FLOOR PLAN

LEGEND

 POSITIVE SAMPLE

 NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS



BLDG. 2287 UNIT 51
FIRST FLOOR PLAN

LEGEND

FHnnn POSITIVE SAMPLE

FHnnn NEGATIVE SAMPLE

2473

2473
FAMILY HOUSING

2473

FAMILY HOUSING

2473.1 GENERAL

Building 2473 was surveyed by WESTON technician on 24 January 1991.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 5 samples of suspect materials collected from Units 42, 46, 50, and 54 in Building 2473. These 5 samples were found to be asbestos-free materials. Table 2473.1 lists the analytical results for the bulk samples.

Units 44, 48, 52, and 56 in Building 2473 were also inspected during the survey period. No sample of suspect material was collected in these units. The materials found in these units were similar to those found in Units 42, 46, 50, and 54. Building 2473 is designated as an asbestos-free building.

TABLE 2473.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 2473, FAMILY HOUSING

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH634	KITCHEN,BELOW CEILING	FLOOR TILE	GRAY,OTH,1X1 FL TL	-	-	-	NO
FH635	CLOSET,BELOW CEILING	FLOOR TILE	GRAY,OTH,1X1 FL TL	-	-	-	YES
FH636	CLOSET,BELOW CEILING	AIR HANDLING EQUIPMENT	BROWN,OTH,DUCT INSUL	-	-	-	NO
FH637	KITCHEN,BELOW CEILING	FLOOR TILE	GRAY,OTH,1X1 FL TL	-	-	-	YES
FH638	CLOSET,BELOW CEILING	FLOOR TILE	GRAY,OTH,1X1 FL TL	-	-	-	NO

^aAsbestos 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 2473.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 2473, FAMILY HOUSING

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROVELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					

No Asbestos Containing Material Detected In This Building

* Other Material Present In Various Units Of Measure

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

Table 2473.3

Other Asbestos-Containing Material - Building 2473 - Family Housing
Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
No Other Asbestos-Containing Material Found in this Building		

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

2473-4

TABLE 2473.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2473, FAMILY HOUSING

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH636	Closet	AIR HANDLING EQUIPMENT	A	0	1	3	1	3	3	40.00	0

Priority Index Codes

A [=] Long Term Corrective Measure
 B [=] Review Management Special Considerations/Remarks
 C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
 2 [=] Occupant Accessibility
 3 [=] Material Condition
 4 [=] Level Of Activity
 5 [=] Number Of Assigned Occupants

TABLE 2473.5

COST ESTIMATE* - BUILDING 2473, FAMILY HOUSING

No Asbestos Containing Material Detected In This Building

2473
FAMILY HOUSING,
QUARTER NO. 42

2473

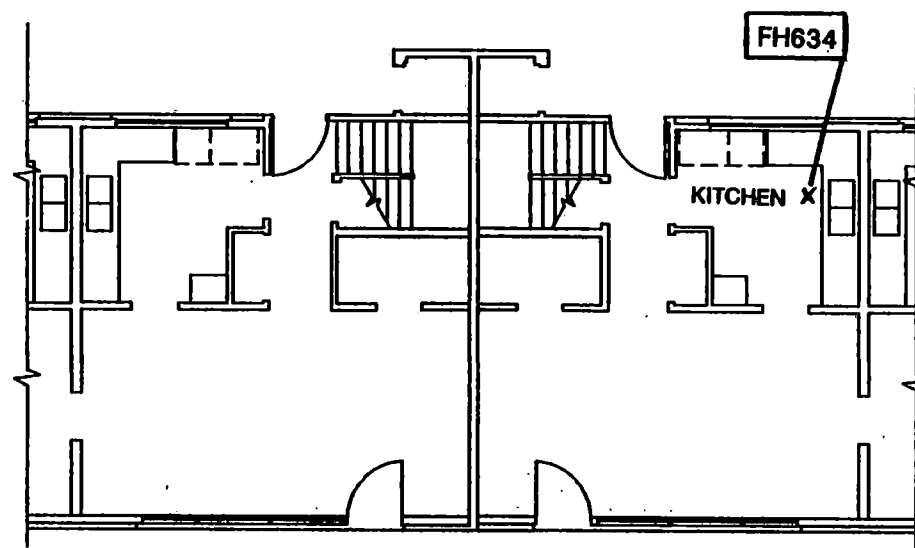
FAMILY HOUSING, QUARTER NO. 42

2473.2 GENERAL

Building 2473, Quarter No. 42 was surveyed by WESTON technicians on 24 January 1991.

Section 2473.1 of this facility report summarizes the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze one sample of suspect material collected from Unit No. 42 in Building 2473. This sample was found to be asbestos-free material. Table 2473.1 lists the analytical results for the bulk samples.



QUARTERS #44

QUARTERS # 42

BLDG. 2473

LEGEND

FHinn POSITIVE SAMPLE

FHinn NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

2473-8

2473

**FAMILY HOUSING,
QUARTER NO. 44**

2473

**FAMILY HOUSING,
QUARTER NO. 44**

2473.3 GENERAL

Building 2473, Quarter No. 44 was surveyed by WESTON technicians on 24 January 1991.

The first three portions of this facility report summarize the results of this inspection.

The suspect asbestos-containing material (ACM) found in Quarter No. 44 is similar to the suspect ACM found in Quarter No. 42. Therefore, the suspect ACM in Quarter No. 44 was referenced back to the sample collected in Quarter No. 42, which was found to be asbestos-free material.

2473

**FAMILY HOUSING,
QUARTER NO. 46**

**FAMILY HOUSING,
QUARTER NO. 46**

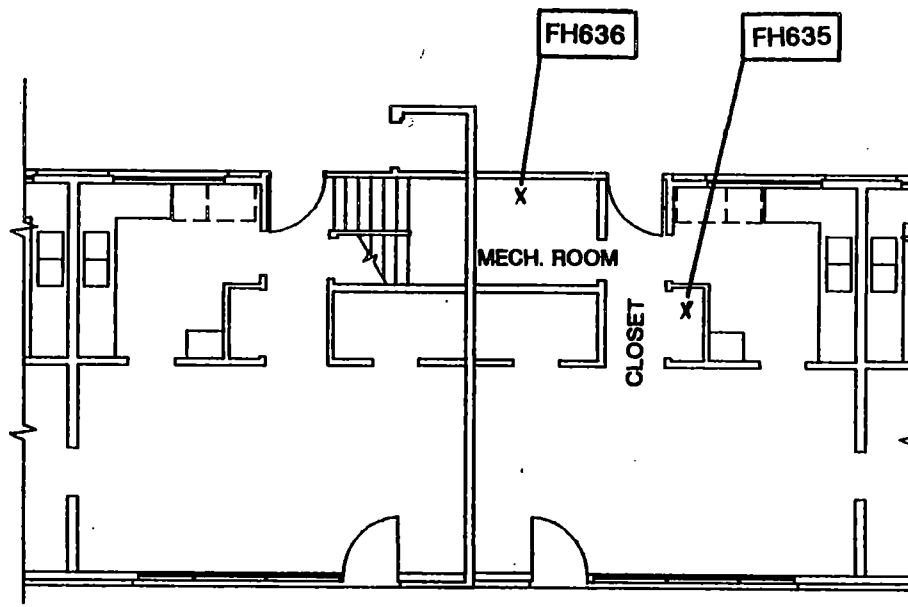
2473.4 GENERAL

Building 2473, Quarter No. 46 was surveyed by WESTON technicians on 24 January 1991.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 2 samples of suspect material collected from Unit No. 46 in Building 2473. Of these samples, both were found to be asbestos-free materials. Table 2473.1 lists the analytical results for the bulk samples.

2473-11



QUARTERS # 48

QUARTERS # 46

BLDG. 2473

LEGEND

 POSITIVE SAMPLE

 NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

2473

**FAMILY HOUSING,
QUARTER NO. 48**

2473

**FAMILY HOUSING,
QUARTER NO. 48**

2473.5 GENERAL

Building 2473, Quarter No. 48 was surveyed by WESTON technicians on 24 January 1991.

The first three portions of this facility report summarize the results of this inspection.

The suspect asbestos-containing material (ACM) found in Quarter No. 48 is similar to the suspect ACM found in Quarter No. 46. Therefore, the suspect ACM in Quarter No. 48 was referenced back to the sample collected in Quarter No. 46, which was found to be asbestos-free material.

2473

**FAMILY HOUSING,
QUARTER NO. 50**

**FAMILY HOUSING,
QUARTER NO. 50**

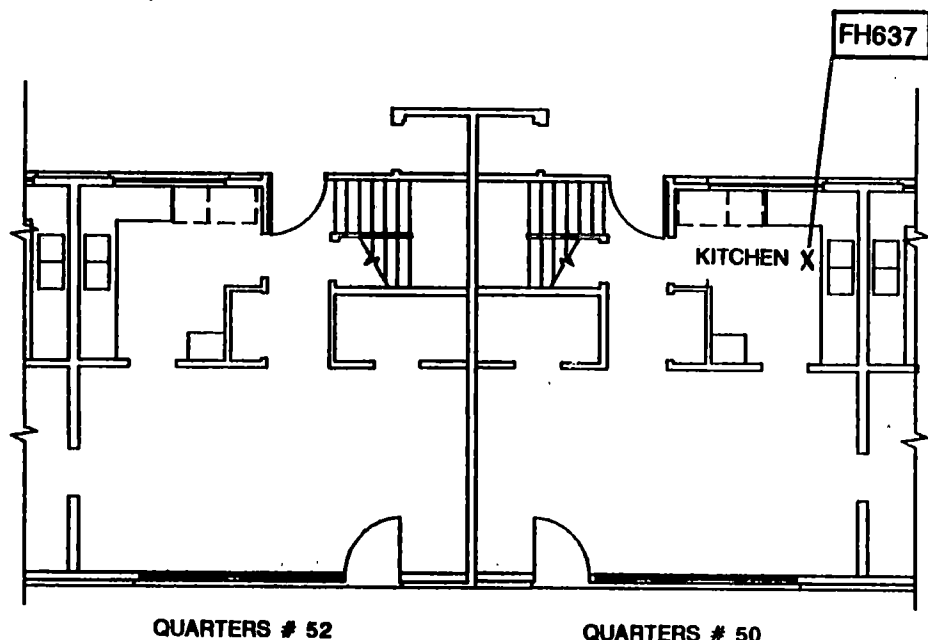
2473.6 GENERAL

Building 2473, Quarter No. 50 was surveyed by WESTON technicians on 24 January 1991.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze one sample of suspect material collected Unit No. 50 in Building 2473. This sample was found to be asbestos-free material. Table 2473.1 lists the analytical results for the bulk samples.

2473-14



QUARTERS # 52

QUARTERS # 50

LEGEND

 POSITIVE SAMPLE

 NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

BLDG. 2473

2473

**FAMILY HOUSING,
QUARTER NO. 52**

**FAMILY HOUSING,
QUARTER NO. 52**

2473.7 GENERAL

Building 2473, Quarter No. 52 was surveyed by WESTON technicians on 24 January 1991.

The first three portions of this facility report summarize the results of this inspection.

The suspect asbestos-containing material (ACM) found in Quarter No. 52 is similar to the suspect ACM found in Quarter No. 50. Therefore, the suspect ACM in Quarter No. 52 was referenced back to the sample collected in Quarter No. 50, which was found to be asbestos-free material.

2473

**FAMILY HOUSING,
QUARTER NO. 54**

**FAMILY HOUSING,
QUARTER NO. 54**

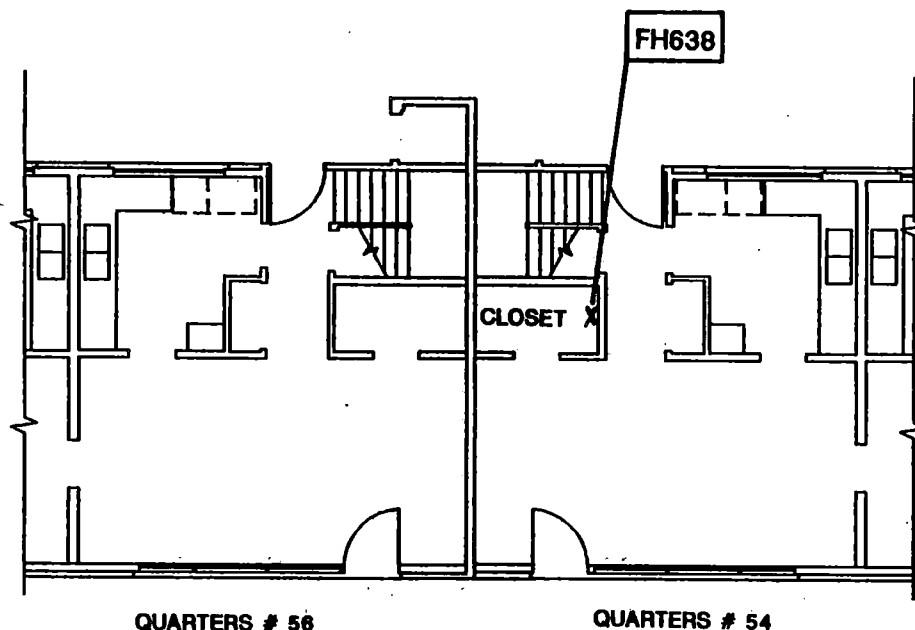
2473.8 GENERAL

Building 2473, Quarter No. 54 was surveyed by WESTON technicians on 24 January 1991.

The first three portions of this facility report summarize the results of this inspection. Photographs of some sample locations are provided in Section 2473.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze one sample of suspect material collected from unit No. 54 in Building 2473. This sample was found to be asbestos-free material. Table 2473.1 lists the analytical results for the bulk samples.

2473-17



QUARTERS # 56

QUARTERS # 54

BLDG. 2473

LEGEND

 POSITIVE SAMPLE

 NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

2473
FAMILY HOUSING,
QUARTER NO. 56

2473

**FAMILY HOUSING,
QUARTER NO. 56**

2473.9 GENERAL

Building 2473, Quarter No. 56 was surveyed by WESTON technicians on 24 January 1991.

The first three portions of this facility report summarize the results of this inspection.

The suspect asbestos-containing material (ACM) found in Quarter No. 56 is similar to the suspect ACM found in Quarter No. 54. Therefore, the suspect ACM in Quarter No. 56 was referenced back to the sample collected in Quarter No. 54, which was found to be asbestos-free material.

2501

2501
WAREHOUSE

2501

WAREHOUSE

2501.1 GENERAL

Building 2501 was surveyed by WESTON technicians on 14 January 1991.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 2 samples of suspect material collected from the building. Of these samples, one was found to be asbestos-containing material (ACM). Table 2105.1 lists the analytical results for the bulk samples.

2501.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 2501 are presented in Table 2501.1. An area-by-area inventory of ACM is provided in Tables 2501.2 and 2501.3. "Other Asbestos-Containing Materials," listed in Table 2501.3, are materials that do not correspond to the standard caption categories listed in Table 2501.2. A prioritized listing of exposure assessments is presented in Table 2501.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 2501.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 2501.2 and 2501.5.

2501.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- Asbestos-containing floor tile should be labeled under the O&M Program.

TABLE 2501.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 2501, WAREHOUSE

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH538	MECH. ROOM,BELOW CEILING	FLOOR TILE	BROWN,OTH,9X9 FL TL,HORIZONTAL	15	-	-	YES
FH539	MECH. ROOM,BELOW CEILING	ACOUSTICAL WALL TILE	WHITE,OTH,1X1 WL TL,VERTICAL	-	-	-	YES

^aAsbestos 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 2501.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 2501, WAREHOUSE

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"	9-14"	>14"					
Mech. Room	-	-	-	-	-	-	-	-	-	0.60	-	-	-
TOTALS	-	-	-	-	-	-	-	-	-	0.60	-	-	-

* Other Material Present In Various Units Of Measure

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

Table 2501.3

**Other Asbestos-Containing Material - Building 2501, Warehouse
Type Occupancy: Adults (Public)**

Area	Material Type	Quantity (Unit)
No Other Asbestos-Containing Material Found in this Building		

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

2501-5

TABLE 2501.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2501, WAREHOUSE

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH539	Mech. Room	ACOUSTICAL WALL TILE	A	0	2	2	2	2	1	2.00	0

Priority Index Codes

A [=] Long Term Corrective Measure
 B [=] Review Management Special Considerations/Remarks
 C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
 2 [=] Occupant Accessibility
 3 [=] Material Condition
 4 [=] Level Of Activity
 5 [=] Number Of Assigned Occupants

TABLE 2501.5

COST ESTIMATE* - BUILDING 2501, WAREHOUSE

DESCRIPTION	UNIT COST (\$)	AREA 1	TOTAL
Pipe Fittings (EA)			
<4"	70.30	-	-
4-8"	85.80	-	-
9-14"	182.00	-	-
>14"	216.00	-	-
Pipe Runs (LF)			
<4"	26.50	-	-
4-8"	28.50	-	-
9-14"	29.50	-	-
>14"	60.80	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-
Floor Tile (SF)	5.60	3.4	3.4
Boilers/Tanks (SF)	37.90	-	-
Air Handling Equipment (SF)	20.00	-	-
Other		-	-
SUBTOTAL		3.4	3.4
Difficulty Allowance		-	-
SUBTOTAL		3.4	3.4
Decontamination Units		3.0	3.0
Mobilization		2.0	2.0
SUBTOTAL		8.4	8.4
Contingency @ 15.00%		1.3	1.3
SUBTOTAL		9.6	9.6
Design Fee @ 10.00%		1.0	1.0
SUBTOTAL		10.6	10.6
Air Monitoring @ 10.00%***		1.1	1.1
TOTAL		11.6	11.6

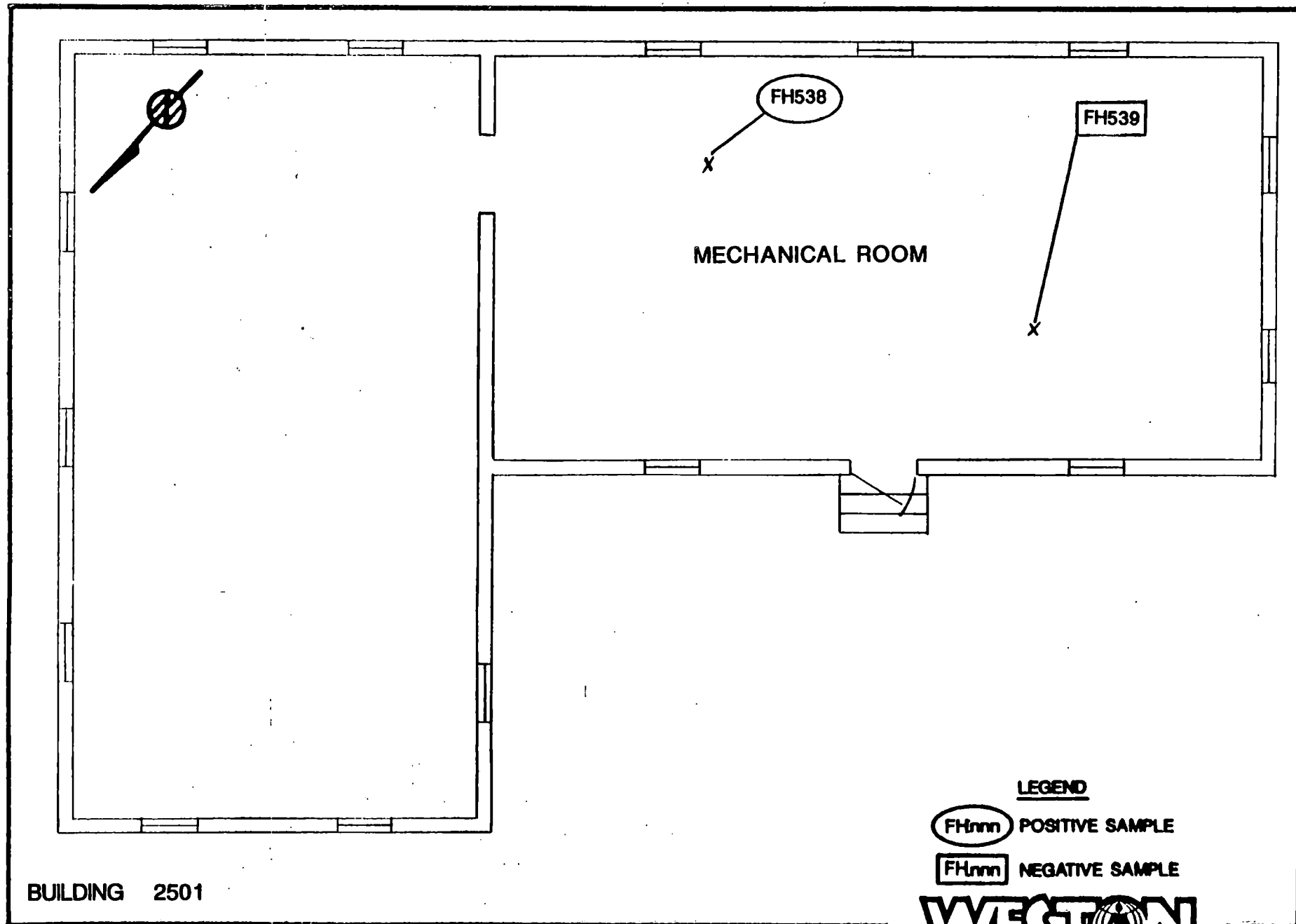
*Amounts Are In Thousands Of Dollars

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

***The Minimum Air Monitoring Fee is \$500.00 Per Building

AREA 1: Mech. Room

2501-8



BUILDING 2501

LEGEND

 FHnnnn POSITIVE SAMPLE

 FHnnnn NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

2508

2508

LAVATORY

LAVATORY

2508.1 GENERAL

Building 2508 was surveyed by WESTON technicians on 9 January 1991.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 2 samples of suspect material collected from the building. Of these samples, both were found to be asbestos-containing materials (ACM). Table 2508.1 lists the analytical results for the bulk samples.

2508.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 2508 are presented in Table 2508.1. An area-by-area inventory of ACM is provided in Tables 2508.2 and 2508.3. "Other Asbestos-Containing Materials," listed in Table 2508.3, are materials that do not correspond to the standard caption categories listed in Table 2508.2. A prioritized listing of exposure assessments is presented in Table 2508.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 2508.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 2508.2 and 2508.5.

2508.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- The men's room in Building 2508 qualifies for the Army Asbestos Deficiency Abatement Project.
- Asbestos-containing floor tile should be labeled under the O&M Program.

TABLE 2508.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 2508, LAVATORY

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH510	LADIES/MECH.,BELOW CEILING	FLOOR TILE	GRAY,OTH,TRAN.PANEL,HORIZONTAL	35	-	-	NO
FH511	MENS,BELOW CEILING	OTHER MATERIAL	WHITE,OTH,WALL BOARD,VERTICAL	40	-	-	NO

^aAsbestos 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 2508.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 2508, LAVATORY

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROVELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
Ladies/Mech.	-	-	-	-	-	-	-	-	-	0.04	-	-	-
Mens	-	-	-	-	-	-	-	-	-	0.25	-	-	*
TOTALS	-	-	-	-	-	-	-	-	-	0.29	-	-	*

* Other Material Present In Various Units Of Measure

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

Table 2508.3

Other Asbestos-Containing Material - Building 2508, Rest Rooms
Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
Men's Room	Wallboard	0.080 (MSF)

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

2508-5

TABLE 2508.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2508, LAVATORY

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH511	Mens	INSULATION BOARD	C	5.300E03	2	2	2	2	8	5.00	40

Priority Index Codes

A [=] Long Term Corrective Measure
 B [=] Review Management Special Considerations/Remarks
 C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
 2 [=] Occupant Accessibility
 3 [=] Material Condition
 4 [=] Level Of Activity
 5 [=] Number Of Assigned Occupants

TABLE 2508.5

COST ESTIMATE* - BUILDING 2508, LAVATORY

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	TOTAL
Pipe Fittings (EA)				
<4"	70.30	-	-	-
4-8"	85.80	-	-	-
9-14"	147.00	-	-	-
>14"	216.00	-	-	-
Pipe Runs (LF)				
<4"	26.50	-	-	-
4-8"	30.50	-	-	-
9-14"	42.50	-	-	-
>14"	60.80	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-
Floor Tile (SF)	5.60	0.2	1.4	1.6
Boilers/Tanks (SF)	37.90	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-
Other		-	0.3	0.3
SUBTOTAL		0.2	1.7	2.0
Difficulty Allowance		-	-	-
SUBTOTAL		0.2	1.7	2.0
Decontamination Units		1.5	1.5	3.0
Mobilization		1.0	1.0	2.0
SUBTOTAL		2.7	4.2	7.0
Contingency @ 15.00%		0.4	0.6	1.0
SUBTOTAL		3.1	4.9	8.0
Design Fee @ 10.00%		0.3	0.5	0.8
SUBTOTAL		3.4	5.4	8.8
Air Monitoring @ 10.00%***		0.4	0.4	0.9
TOTAL		3.9	5.8	9.7

* Amounts Are In Thousands Of Dollars

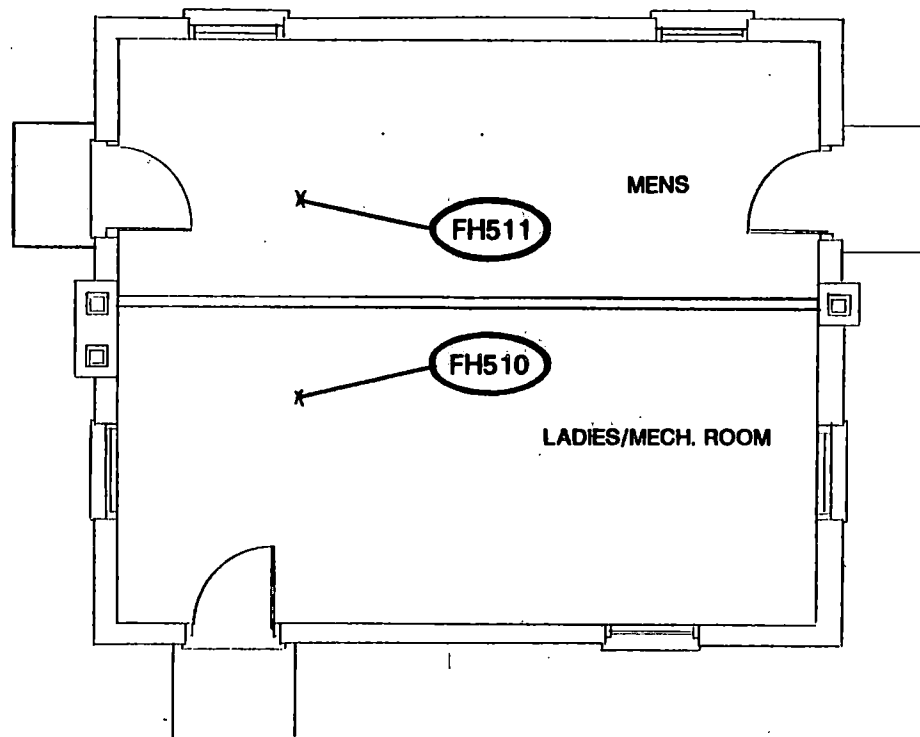
** Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

*** The Minimum Air Monitoring Fee is \$500.00 Per Building

AREA 1: Ladies/Mech.

AREA 2: Mens

2508-8



BLDG. 2508

LEGEND

-  POSITIVE SAMPLE
 NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

2525

2525

ADMINISTRATION (AVRADA)

ADMINISTRATION (AVRADA)**2525.1 GENERAL**

Building 2525 was surveyed by WESTON technicians on 7 January through 8 January 1991.

The first three portions of this facility report summarize the results of this inspection. Photographs of some sample locations are provided in Section 2525.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 26 samples of suspect material collected from the building. Of these samples, all 15 were found to be asbestos-containing materials (ACM). Table 2525.1 lists the analytical results for the bulk samples.

2525.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 2525 are presented in Table 2525.1. An area-by-area inventory of ACM is provided in Tables 2525.2 and 2525.3. "Other Asbestos-Containing Materials," listed in Table 2525.3, are materials that do not correspond to the standard caption categories listed in Table 2525.2. A prioritized listing of exposure assessments is presented in Table 2525.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 2525.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 2525.2 and 2525.5.

2525.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- The following areas in Building 2525 qualify for the Army Asbestos Deficiency Abatement Project:

Room 2101	Room 2108B	Room 4104	Room 5111
Room 2105A	Room 2110A	Room 4105	Room 5112
Corridor 21A	Room 2110B	Room 4106	Room 5114
Room 2102	Room 3101	Room 4107	Room 6103
Room 2103	Room 3102	Room 4108A	Room 6105
Room 2104	Room 3103	Room 4108B	Corridor 31A
Room 2105B	Room 3104	Room 4109	Closet 6
Room 2106	Room 3105A	Room 4110	Corridor 31B
Room 2102A	Room 3105B	Room 5100	Room 6100
Room 2108	Room 3106	Room 5100A	Room 6101 Mens
Corridor 21B	Room 3107	Room 5101	Room 5206
Corridor 21C	Room 3108A	Room 5102	Room 2200
Corridor 41A	Room 3108B	Room 5103	Room 2204
Corridor 41B	Room 3109	Room 5105	Room 2206
Corridor 51A	Room 3110	Room 5106	Room 3207
Corridor 51B	Room 4100	Room 5107	Room 4205
Corridor 61A	Room 4101	Room 5109A	Room 5201
Corridor 61B	Room 4101A	Room 5109B	Room 5212
Mens 3100	Room 4102	Room 5110	

- Other asbestos-containing materials should be labeled under the O&M Program.

TABLE 2525.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 2525, ADMIN. (AVRADA)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH476	ROOM 2101,BELOW CEILING	CEILING TILE	WHITE,OTH,CEIL. TILE	-	-	-	NO
FH477	ROOM 2101,BELOW CEILING	FLOOR TILE	TAN,OTH,1X1 FL TL	5	-	-	NO
FH478	ROOM 2101,BELOW CEILING	4-8" PIPE RUN	WHITE,STM,4-8IN. RUN	20	20	-	NO
FH479	ROOM 2102,BELOW CEILING	CEILING TILE	WHITE,OTH,CEIL. TILE	-	-	-	NO
FH480	ROOM 2102,BELOW CEILING	4-8" PIPE RUN	WHITE,STM,4-8IN. RUN	15	15	-	NO
FH481	ROOM 2102A,BELOW CEILING	<4" PIPE FITTING	WHITE,STM,4-8IN. FIT	10	1	-	NO
FH482	ROOM 2105A,BELOW CEILING	4-8" PIPE FITTING	WHITE,STM,4-8IN. FIT	40	1	-	NO
FH483	ROOM 2106,BELOW CEILING	ACOUSTICAL WALL TILE	BLUE,OTH,1X1 WL TL	-	1	-	NO
FH484	ROOM 2108,BELOW CEILING	4-8" PIPE FITTING	WHITE,STM,4-8IN. FIT	15	15	-	NO
FH485	CORRIDOR 21A,BELOW CEILING	FLOOR TILE	TAN,OTH,1X1 FL TL	1	-	-	NO
FH486	CORRIDOR 21B,BELOW CEILING	<4" PIPE FITTING	WHITE,STM,<4IN. FIT.	-	-	-	NO
FH487	CORRIDOR 21B,BELOW CEILING	4-8" PIPE RUN	WHITE,STM,4-8IN. RUN	15	20	-	NO
FH488	CORRIDOR 21B,BELOW CEILING	4-8" PIPE FITTING	WHITE,STM,4-8IN. FIT	-	-	-	NO
FH489	ROOM 2108B,BELOW CEILING	ACOUSTICAL WALL TILE	WHITE,OTH,1X1 WL TL	-	-	-	YES
FH490	ROOM 2108B,BELOW CEILING	CEILING TILE	WHITE,OTH,2X4 CL TL	-	-	-	NO
FH491	ROOM 2110A,BELOW CEILING	FLOOR TILE	BROWN,OTH,9X9IN. FL	5	-	-	NO
FH492	ROOM 2110A,BELOW CEILING	FLOOR TILE	RED,OTH,1X1 FL TL	2	-	-	NO
FH493	ROOM 3110,BELOW CEILING	<4" PIPE RUN	WHITE,OTH,<4IN. RUN	15	20	3	NO
FH494	CORRIDOR 31B,BELOW CEILING	<4" PIPE FITTING	WHITE,STM,<4IN. FIT	20	15	-	NO
FH495	ROOM 4100,BELOW CEILING	<4" PIPE RUN	WHITE,STM,<4IN. RUN	10	25	-	NO
FH496	ROOM 4100,BELOW CEILING	<4" PIPE RUN	WHITE,STM,<4IN. RUN	10	25	-	NO
FH497	ROOM 4101,BELOW CEILING	CEILING TILE	WHITE,OTH,2X2 CL TL	-	-	-	NO
FH498	ROOM 4101,BELOW CEILING	CEILING TILE	WHITE,OTH,2X2 CL TL	-	-	-	NO
FH499	ROOM 4109,BELOW CEILING	ACOUSTICAL WALL TILE	WHITE,OTH,1X1 WL TL	-	-	-	NO
FH514	BOILER HOUSE,BELOW CEILING	BOILERS/TANKS	WHITE,OTH,BREECHING	-	-	-	YES

^aAsbestos 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 2525.1
(continued)

BULK SAMPLE ANALYSIS RESULTS - BUILDING 2525, ADMIN. (AVRADA)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH515	BOILER HOUSE,BELOW CEILING	BOILERS/TANKS	WHITE,OTH,BREECHING	-	-	-	NO

^a 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 2525.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 2525, ADMIN. (AVRADA)

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROVELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
Closet 6	2	-	-	-	-	-	-	-	-	0.04	-	-	-
Corridor 21A	-	-	-	-	-	16	-	-	-	0.25	-	-	-
Corridor 21B	-	-	-	-	-	110	-	-	-	0.86	-	-	-
Corridor 21C	-	-	-	-	-	5	-	-	-	0.12	-	-	-
Corridor 2A	-	-	-	-	-	-	-	-	-	0.94	-	-	-
Corridor 31A	-	-	-	-	2	14	-	-	-	0.25	-	-	-
Corridor 31B	13	-	-	-	-	-	-	-	-	0.86	-	-	-
Corridor 3A	-	-	-	-	-	-	-	-	-	1.18	-	-	-
Corridor 41A	-	-	-	-	8	128	-	-	-	1.06	-	-	-
Corridor 41B	-	-	-	-	8	8	-	-	-	0.19	-	-	-
Corridor 4A	-	-	-	-	-	-	-	-	-	1.18	-	-	-
Corridor 51A	26	-	-	-	-	118	-	-	-	0.99	-	-	-
Corridor 51B	-	-	-	-	-	37	-	-	-	0.12	-	-	-
Corridor 61A	11	-	-	-	-	130	-	-	-	1.30	-	-	-
Corridor 61B	-	-	-	-	-	16	-	-	-	0.12	-	-	-
Corridor 6A	-	-	-	-	-	-	-	-	-	0.66	-	-	-
Mens Room 3100	-	-	-	-	-	18	-	-	-	-	-	-	-
Room 2101	-	-	-	-	-	34	-	-	-	0.37	-	-	-
Room 2102	-	-	-	-	-	17	-	-	-	-	-	-	-
Room 2102A	4	-	-	-	-	-	-	-	-	-	-	-	-
Room 2103	-	-	-	-	-	56	-	-	-	0.84	-	-	-
Room 2104	-	-	-	-	-	20	-	-	-	0.24	-	-	-
Room 2105A	-	8	-	-	-	60	-	-	-	0.38	-	-	-
Room 2105B	-	-	-	-	-	100	-	-	-	0.58	-	-	-
Room 2106	-	-	-	-	-	20	-	-	-	0.29	-	-	*
Room 2108	-	4	-	-	-	46	-	-	-	0.38	-	-	-
Room 2108B	-	-	-	-	-	60	-	-	-	0.67	-	-	-
Room 2110A	-	-	-	-	-	36	-	-	-	1.30	-	-	-
Room 2110B	-	-	-	-	-	28	-	-	-	1.01	-	-	-
Room 2200	-	-	-	-	-	-	-	-	-	-	-	-	*
Room 2200A	-	-	-	-	-	-	-	-	-	0.09	-	-	-
Room 2201	-	-	-	-	-	-	-	-	-	0.91	-	-	-
Room 2202	-	-	-	-	-	-	-	-	-	0.48	-	-	-

* Other Material Present In Various Units Of Measure

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

TABLE 2525.2
(continued)

ASBESTOS-CONTAINING MATERIALS - BUILDING 2525, ADMIN. (AVRADA)

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROVELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
Room 2203	-	-	-	-	-	-	-	-	-	0.86	-	-	-
Room 2204	-	-	-	-	-	-	-	-	-	1.20	-	-	*
Room 2205	-	-	-	-	-	-	-	-	-	0.29	-	-	-
Room 2206	-	-	-	-	-	-	-	-	-	0.19	-	-	*
Room 3101	-	-	-	-	-	18	-	-	-	0.14	-	-	-
Room 3102	-	-	-	-	-	64	-	-	-	0.77	-	-	-
Room 3103	-	-	-	-	-	56	-	-	-	0.67	-	-	-
Room 3104	-	-	-	-	-	40	-	-	-	0.40	-	-	-
Room 3105A	-	-	-	-	-	19	-	-	-	0.24	-	-	-
Room 3105B	-	-	-	-	-	32	-	-	-	0.48	-	-	-
Room 3106	-	-	-	-	-	16	-	-	-	0.19	-	-	-
Room 3107	-	-	-	-	-	20	-	-	-	0.24	-	-	-
Room 3108A	-	-	-	-	-	38	-	-	-	0.48	-	-	-
Room 3108B	-	-	-	-	-	40	-	-	-	0.48	-	-	-
Room 3109	-	-	-	-	-	50	-	-	-	-	-	-	-
Room 3110	-	-	-	-	18	18	-	-	-	0.24	-	-	-
Room 3200	-	-	-	-	-	-	-	-	-	0.26	-	-	-
Room 3201	-	-	-	-	-	-	-	-	-	0.48	-	-	-
Room 3202	-	-	-	-	-	-	-	-	-	1.20	-	-	-
Room 3203	-	-	-	-	-	-	-	-	-	0.38	-	-	-
Room 3204	-	-	-	-	-	-	-	-	-	0.67	-	-	-
Room 3205	-	-	-	-	-	-	-	-	-	0.29	-	-	-
Room 3206	-	-	-	-	-	-	-	-	-	0.48	-	-	-
Room 3207	-	-	-	-	-	-	-	-	-	1.40	-	-	*
Room 3209	-	-	-	-	-	-	-	-	-	0.19	-	-	-
Room 4100	1	-	-	-	33	32	-	-	-	0.77	-	-	-
Room 4101	-	-	-	-	-	88	-	-	-	-	-	-	-
Room 4101A	5	-	-	-	-	5	-	-	-	-	-	-	-
Room 4102	-	-	-	-	22	22	-	-	-	0.58	-	-	-
Room 4104	4	-	-	-	20	20	-	-	-	0.48	-	-	-
Room 4105	2	-	-	-	30	30	-	-	-	0.77	-	-	-
Room 4106	2	-	-	-	18	18	-	-	-	0.44	-	-	-
Room 4107	2	-	-	-	16	16	-	-	-	0.38	-	-	-

* Other Material Present In Various Units Of Measure

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

TABLE 2525.2
(continued)

ASBESTOS-CONTAINING MATERIALS - BUILDING 2525, ADMIN. (AVRADA)

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"	9-14"	>14"					
Room 4108A	-	-	-	-	12	12	-	-	-	0.29	-	-	-
Room 4108B	-	-	-	-	10	10	-	-	-	0.29	-	-	-
Room 4109	-	-	-	-	32	32	-	-	-	0.77	-	-	-
Room 4110	-	-	-	-	10	10	-	-	-	0.24	-	-	-
Room 4200	-	-	-	-	-	-	-	-	-	120.43	-	-	-
Room 4201	-	-	-	-	-	-	-	-	-	0.22	-	-	-
Room 4202	-	-	-	-	-	-	-	-	-	0.96	-	-	-
Room 4203	-	-	-	-	-	-	-	-	-	1.16	-	-	-
Room 4204	-	-	-	-	-	-	-	-	-	0.67	-	-	-
Room 4205	-	-	-	-	-	-	-	-	-	0.22	-	-	*
Room 4206	-	-	-	-	-	-	-	-	-	0.48	-	-	-
Room 4207	-	-	-	-	-	-	-	-	-	0.48	-	-	-
Room 4209	-	-	-	-	-	-	-	-	-	0.62	-	-	-
Room 4211	-	-	-	-	-	-	-	-	-	0.24	-	-	-
Room 5100	-	-	-	-	-	20	-	-	-	-	-	-	-
Room 5100A	-	-	-	-	-	20	-	-	-	-	-	-	-
Room 5101	-	-	-	-	20	20	-	-	-	0.46	-	-	-
Room 5102	-	-	-	-	-	20	-	-	-	-	-	-	-
Room 5103	-	-	-	-	-	24	-	-	-	0.29	-	-	-
Room 5105	-	-	-	-	-	24	-	-	-	0.29	-	-	-
Room 5106	-	-	-	-	-	24	-	-	-	0.29	-	-	-
Room 5107	-	-	-	-	-	24	-	-	-	0.29	-	-	-
Room 5108A and B	-	-	-	-	-	-	-	-	-	0.72	-	-	-
Room 5109A	-	-	-	-	-	58	-	-	-	0.48	-	-	-
Room 5109B	-	-	-	-	-	40	-	-	-	0.38	-	-	-
Room 5110	-	-	-	-	-	32	-	-	-	0.38	-	-	-
Room 5111	-	-	-	-	-	40	-	-	-	0.80	-	-	-
Room 5112	-	-	-	-	-	40	-	-	-	0.48	-	-	-
Room 5114	-	-	-	-	-	24	-	-	-	0.29	-	-	-
Room 5200	-	-	-	-	-	-	-	-	-	1.22	-	-	-
Room 5201	-	-	-	-	-	-	-	-	-	0.46	-	-	*
Room 5202	-	-	-	-	-	-	-	-	-	0.31	-	-	-
Room 5203	-	-	-	-	-	-	-	-	-	0.46	-	-	-

* Other Material Present In Various Units Of Measure

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

TABLE 2525.2
(continued)

ASBESTOS-CONTAINING MATERIALS - BUILDING 2525, ADMIN. (AVRADA)

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROVELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
Room 5204	-	-	-	-	-	-	-	-	-	0.28	-	-	-
Room 5205	-	-	-	-	-	-	-	-	-	0.48	-	-	-
Room 5206	-	-	-	-	-	-	-	-	-	0.48	-	-	*
Room 5207	-	-	-	-	-	-	-	-	-	0.29	-	-	-
Room 5208	-	-	-	-	-	-	-	-	-	0.48	-	-	-
Room 5209	-	-	-	-	-	-	-	-	-	0.29	-	-	-
Room 5210	-	-	-	-	-	-	-	-	-	0.67	-	-	-
Room 5212	-	-	-	-	-	-	-	-	-	0.34	-	-	*
Room 5213	-	-	-	-	-	-	-	-	-	0.39	-	-	-
Room 6100	6	-	-	-	78	240	-	-	-	5.40	-	-	*
Room 6101 Mens	2	-	-	-	-	20	-	-	-	-	-	-	-
Room 6103	-	-	-	-	-	56	-	-	-	0.67	-	-	-
Room 6105	4	-	-	-	63	179	-	-	-	3.60	-	-	-
Room 6200	-	-	-	-	-	-	-	-	-	0.67	-	-	-
Room 6202A	-	-	-	-	-	-	-	-	-	0.62	-	-	-
Room 6203	-	-	-	-	-	-	-	-	-	0.29	-	-	-
Room 6205	-	-	-	-	-	-	-	-	-	0.38	-	-	-
Room 6207	-	-	-	-	-	-	-	-	-	0.57	-	-	-
Room 6210	-	-	-	-	-	-	-	-	-	3.00	-	-	-
TOTALS	84	12	-	6	400	2688	-	-	-	186.88	-	-	*

* Other Material Present In Various Units Of Measure

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

Table 2525.3

Other Asbestos-Containing Material - Building 2525, Admin. (AVRADA)
Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
Room 2106	Acoustical Wall Tile	0.216 (MSF)
Room 5206	Acoustical Wall Tile	0.680 (MSF)
Room 2200	Acoustical Wall Tile	1.1 (MSF)
Room 2204	Acoustical Wall Tile	1.2 (MSF)
Room 3207	Acoustical Wall Tile	2.5 (MSF)
Room 2206	Acoustical Wall Tile	0.192 (MSF)
Room 4205	Acoustical Wall Tile	0.410 (MSF)
Room 5201	Acoustical Wall Tile	0.603 (MSF)
Room 5212	Acoustical Wall Tile	0.072 (MSF)
Room 6100	Acoustical Wall Tile	0.900 (MSF)

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

2525-9

TABLE 2525.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2525, ADMIN. (AVRADA)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH478	Room 2101	4-8" PIPE RUN	C	2.700E06	3	2	2	2	90	40.00	40
FH482	Room 2105A	4-8" PIPE FITTING	C	2.700E06	3	2	2	2	90	40.00	41
FH480	Corridor 21A	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	30
FH480	Room 2102	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	30
FH480	Room 2103	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	30
FH480	Room 2104	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	30
FH480	Room 2105A	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	30
FH480	Room 2105B	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	30
FH480	Room 2106	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	30
FH480	Room 2108	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	30
FH481	Room 2102A	<4" PIPE FITTING	C	9.900E05	3	2	2	2	90	40.00	11
FH484	Room 2108	4-8" PIPE FITTING	C	9.900E05	3	2	2	2	90	40.00	30
FH487	Corridor 21B	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Corridor 21C	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Corridor 31A	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Corridor 41A	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Corridor 41B	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Corridor 51A	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Corridor 51B	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Corridor 61A	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Corridor 61B	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Mens Room 3100	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 2108B	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 2110A	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 2110B	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 3101	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 3102	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 3103	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 3104	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 3105A	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35

Priority Index Codes

A [=] Long Term Corrective Measure
 B [=] Review Management Special Considerations/Remarks
 C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
 2 [=] Occupant Accessibility
 3 [=] Material Condition
 4 [=] Level Of Activity
 5 [=] Number Of Assigned Occupants

TABLE 2525.4
(continued)

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2525, ADMIN. (AVRADA)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH487	Room 3105B	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 3106	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 3107	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 3108A	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 3108B	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 3109	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 3110	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 4100	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 4101	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 4101A	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 4102	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 4104	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 4105	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 4106	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 4107	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 4108A	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 4108B	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 4109	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 4110	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 5100	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 5100A	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 5101	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 5102	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 5103	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 5105	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 5106	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 5107	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 5109A	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 5109B	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 5110	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35

Priority Index Codes

A [=] Long Term Corrective Measure
B [=] Review Management Special Considerations/Remarks
C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
2 [=] Occupant Accessibility
3 [=] Material Condition
4 [=] Level Of Activity
5 [=] Number Of Assigned Occupants

TABLE 2525.4
(continued)

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2525, ADMIN. (AVRADA)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH487	Room 5111	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 5112	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 5114	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 6100	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 6101 Mens	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 6103	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH487	Room 6105	4-8" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH493	Corridor 31A	<4" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	38
FH493	Room 3110	<4" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	38
FH493	Room 6100	<4" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	38
FH493	Room 6105	<4" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	38
FH494	Closet 6	<4" PIPE FITTING	C	9.900E05	3	2	2	2	90	40.00	35
FH494	Corridor 31B	<4" PIPE FITTING	C	9.900E05	3	2	2	2	90	40.00	35
FH494	Corridor 51A	<4" PIPE FITTING	C	9.900E05	3	2	2	2	90	40.00	35
FH494	Corridor 61A	<4" PIPE FITTING	C	9.900E05	3	2	2	2	90	40.00	35
FH494	Room 4100	<4" PIPE FITTING	C	9.900E05	3	2	2	2	90	40.00	35
FH494	Room 4101A	<4" PIPE FITTING	C	9.900E05	3	2	2	2	90	40.00	35
FH494	Room 4104	<4" PIPE FITTING	C	9.900E05	3	2	2	2	90	40.00	35
FH494	Room 4105	<4" PIPE FITTING	C	9.900E05	3	2	2	2	90	40.00	35
FH494	Room 4106	<4" PIPE FITTING	C	9.900E05	3	2	2	2	90	40.00	35
FH494	Room 4107	<4" PIPE FITTING	C	9.900E05	3	2	2	2	90	40.00	35
FH494	Room 6100	<4" PIPE FITTING	C	9.900E05	3	2	2	2	90	40.00	35
FH494	Room 6101 Mens	<4" PIPE FITTING	C	9.900E05	3	2	2	2	90	40.00	35
FH494	Room 6105	<4" PIPE FITTING	C	9.900E05	3	2	2	2	90	40.00	35
FH495	Room 4100	<4" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH496	Corridor 41A	<4" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH496	Corridor 41B	<4" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH496	Room 4100	<4" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH496	Room 4102	<4" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH496	Room 4104	<4" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35

Priority Index Codes

A [=] Long Term Corrective Measure
B [=] Review Management Special Considerations/Remarks
C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
2 [=] Occupant Accessibility
3 [=] Material Condition
4 [=] Level Of Activity
5 [=] Number Of Assigned Occupants

TABLE 2525.4
(continued)

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2525, ADMIN. (AVRADA)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH496	Room 4105	<4" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH496	Room 4106	<4" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH496	Room 4107	<4" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH496	Room 4108A	<4" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH496	Room 4108B	<4" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH496	Room 4109	<4" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH496	Room 4110	<4" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH496	Room 5101	<4" PIPE RUN	C	9.900E05	3	2	2	2	90	40.00	35
FH483	Room 2106	ACOUSTICAL WALL TILE	C	1.710E05	3	2	2	2	90	40.00	1
FH483	Room 2200	ACOUSTICAL WALL TILE	C	1.710E05	3	2	2	2	90	40.00	1
FH483	Room 2204	ACOUSTICAL WALL TILE	C	1.710E05	3	2	2	2	90	40.00	1
FH483	Room 2206	ACOUSTICAL WALL TILE	C	1.710E05	3	2	2	2	90	40.00	1
FH483	Room 3207	ACOUSTICAL WALL TILE	C	1.710E05	3	2	2	2	90	40.00	1
FH483	Room 4205	ACOUSTICAL WALL TILE	C	1.710E05	3	2	2	2	90	40.00	1
FH483	Room 5201	ACOUSTICAL WALL TILE	C	1.710E05	3	2	2	2	90	40.00	1
FH483	Room 5206	ACOUSTICAL WALL TILE	C	1.710E05	3	2	2	2	90	40.00	1
FH483	Room 5212	ACOUSTICAL WALL TILE	C	1.710E05	3	2	2	2	90	40.00	1
FH483	Room 6100	ACOUSTICAL WALL TILE	C	1.710E05	3	2	2	2	90	40.00	1
FH476	Room 2101	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH476	Room 4209	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Corridor 21A	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Corridor 21B	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Corridor 21C	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Corridor 2A	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Corridor 3A	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Corridor 4A	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Corridor 6A	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 2102	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 2103	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 2104	CEILING TILE	A	0	3	2	2	2	90	40.00	0

Priority Index Codes

A [=] Long Term Corrective Measure
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C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
2 [=] Occupant Accessibility
3 [=] Material Condition
4 [=] Level Of Activity
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TABLE 2525.4
(continued)

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2525, ADMIN. (AVRADA)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH479	Room 2105A	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 2105B	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 2106	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 2108	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 2201	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 2202	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 2203	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 2204	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 2205	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 2206	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 3200	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 3201	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 3202	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 3203	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 3204	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 3205	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 3206	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 3207	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 3209	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 4200	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 4201	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 4202	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 4203	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 4204	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 4206	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 4207	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 4211	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 5114	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 5200	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 5202	CEILING TILE	A	0	3	2	2	2	90	40.00	0

Priority Index Codes

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Priority Index Numbers Are In Scientific Notation

Exposure Factors

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3 [=] Material Condition
4 [=] Level Of Activity
5 [=] Number Of Assigned Occupants

TABLE 2525.4
(continued)

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2525, ADMIN. (AVRADA)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH479	Room 5203	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 5204	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 5205	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 5206	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 5207	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 5208	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 5210	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 5212	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH479	Room 6210	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH486	Corridor 21B	<4" PIPE FITTING	A	0	3	2	2	2	90	40.00	0
FH488	Corridor 21B	4-8" PIPE FITTING	A	0	3	2	2	2	90	40.00	0
FH488	Corridor 31B	4-8" PIPE FITTING	A	0	3	2	2	2	90	40.00	0
FH488	Corridor 41A	4-8" PIPE FITTING	A	0	3	2	2	2	90	40.00	0
FH488	Room 2108B	4-8" PIPE FITTING	A	0	3	2	2	2	90	40.00	0
FH488	Room 3109	4-8" PIPE FITTING	A	0	3	2	2	2	90	40.00	0
FH488	Room 4101	4-8" PIPE FITTING	A	0	3	2	2	2	90	40.00	0
FH488	Room 4101A	4-8" PIPE FITTING	A	0	3	2	2	2	90	40.00	0
FH488	Room 4102	4-8" PIPE FITTING	A	0	3	2	2	2	90	40.00	0
FH488	Room 4104	4-8" PIPE FITTING	A	0	3	2	2	2	90	40.00	0
FH488	Room 5100A	4-8" PIPE FITTING	A	0	3	2	2	2	90	40.00	0
FH488	Room 5108A and B	4-8" PIPE FITTING	A	0	3	2	2	2	90	40.00	0
FH488	Room 5109A	4-8" PIPE FITTING	A	0	3	2	2	2	90	40.00	0
FH488	Room 6100	4-8" PIPE FITTING	A	0	3	2	2	2	90	40.00	0
FH488	Room 6105	4-8" PIPE FITTING	A	0	3	2	2	2	90	40.00	0
FH489	Room 2108B	ACOUSTICAL WALL TILE	A	0	3	2	2	2	90	40.00	0
FH489	Room 2110A	ACOUSTICAL WALL TILE	A	0	3	2	2	2	90	40.00	0
FH489	Room 2110B	ACOUSTICAL WALL TILE	A	0	3	2	2	2	90	40.00	0
FH489	Room 3103	ACOUSTICAL WALL TILE	A	0	3	2	2	2	90	40.00	0
FH489	Room 3105A	ACOUSTICAL WALL TILE	A	0	3	2	2	2	90	40.00	0
FH489	Room 3105B	ACOUSTICAL WALL TILE	A	0	3	2	2	2	90	40.00	0

Priority Index Codes

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TABLE 2525.4
(continued)

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2525, ADMIN. (AVRADA)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH489	Room 3106	ACOUSTICAL WALL TILE	A	0	3	2	2	2	90	40.00	0
FH489	Room 4105	ACOUSTICAL WALL TILE	A	0	3	2	2	2	90	40.00	0
FH489	Room 4109	ACOUSTICAL WALL TILE	A	0	3	2	2	2	90	40.00	0
FH489	Room 5108A and B	4-8" PIPE RUN	A	0	3	2	2	2	90	40.00	0
FH489	Room 5109A	ACOUSTICAL WALL TILE	A	0	3	2	2	2	90	40.00	0
FH489	Room 5109B	ACOUSTICAL WALL TILE	A	0	3	2	2	2	90	40.00	0
FH490	Corridor 31A	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH490	Corridor 31B	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH490	Mens Room 3100	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH490	Room 2108B	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH490	Room 2110A	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH490	Room 2110B	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH490	Room 3101	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH490	Room 3102	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH490	Room 3103	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH490	Room 3104	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH490	Room 3105A	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH490	Room 3105B	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH490	Room 3106	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH490	Room 3107	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH490	Room 3108A	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH490	Room 3108B	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH490	Room 3110	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH490	Room 4100	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH490	Room 5100	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH497	Room 4101	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH497	Room 5102	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH497	Room 5201	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH497	Room 6201	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH498	Corridor 41A	CEILING TILE	A	0	3	2	2	2	90	40.00	0

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TABLE 2525.4
(continued)

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2525, ADMIN. (AVRADA)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH498	Corridor 41B	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH498	Corridor 51A	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH498	Corridor 51B	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH498	Corridor 61A	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH498	Corridor 61B	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH498	Room 2200	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH498	Room 4101	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH498	Room 4102	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH498	Room 4104	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH498	Room 4105	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH498	Room 4106	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH498	Room 4107	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH498	Room 4108A	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH498	Room 4108B	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH498	Room 4109	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH498	Room 4110	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH498	Room 5101	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH498	Room 5103	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH498	Room 5105	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH498	Room 5106	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH498	Room 5107	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH498	Room 5108A and B	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH498	Room 5109A	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH498	Room 5109B	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH498	Room 5110	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH498	Room 5111	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH498	Room 5112	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH498	Room 6100	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH498	Room 6101 Mens	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH498	Room 6103	CEILING TILE	A	0	3	2	2	2	90	40.00	0

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TABLE 2525.4
(continued)

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2525, ADMIN. (AVRADA)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH498	Room 6105	CEILING TILE	A	0	3	2	2	2	90	40.00	0
FH499	Room 2204	ACOUSTICAL WALL TILE	A	0	3	2	2	2	90	40.00	0
FH499	Room 2206	ACOUSTICAL WALL TILE	A	0	3	2	2	2	90	40.00	0
FH499	Room 4109	ACOUSTICAL WALL TILE	A	0	3	2	2	2	90	40.00	0
FH499	Room 6100	ACOUSTICAL WALL TILE	A	0	3	2	2	2	90	40.00	0
FH499	Room 6105	ACOUSTICAL WALL TILE	A	0	3	2	2	2	90	40.00	0
FH514	Boiler House	BOILERS/TANKS	A	0	3	1	2	1	1	2.00	0
FH515	Boiler House	BOILERS/TANKS	A	0	3	1	2	1	1	2.00	0

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TABLE 2525.5

COST ESTIMATE* - BUILDING 2525, ADMIN. (AVRADA)

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6	AREA 7	AREA 8	AREA 9	AREA 10	AREA 11
Pipe Fittings (EA)												
<4"	70.30	0.1	-	-	-	-	-	0.9	-	-	-	-
4-8"	85.80	-	-	-	-	-	-	-	-	-	-	-
9-14"	127.00	-	-	-	-	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-	-	-	-
Pipe Runs (LF)												
<4"	26.50	-	-	-	-	-	**	-	-	0.2	0.2	-
4-8"	29.50	-	0.5	3.4	0.2	-	0.4	-	-	3.6	0.2	-
9-14"	26.50	-	-	-	-	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	0.2	1.4	4.8	0.7	5.3	1.4	4.8	6.6	5.9	1.1	6.6
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-
SUBTOTAL		0.3	1.9	8.2	0.8	5.3	1.9	5.8	6.6	10.1	1.5	6.6
Difficulty Allowance		-	0.2	1.7	0.4	-	0.2	0.5	-	2.1	0.8	3.3
SUBTOTAL		0.3	2.1	9.9	1.2	5.3	2.1	6.2	6.6	12.1	2.3	9.9
Decontamination Units Mobilization		**0.2	**0.2	**0.2	**0.2	**0.2	**0.2	**0.2	**0.2	**0.2	**0.2	**0.2
SUBTOTAL		0.5	2.3	10.1	1.4	5.5	2.3	6.4	6.8	12.3	2.5	10.1
Contingency @ 15.00%		**	0.3	1.5	0.2	0.8	0.3	1.0	1.0	1.8	0.4	1.5
SUBTOTAL		0.6	2.7	11.6	1.6	6.3	2.7	7.4	7.8	14.1	2.9	11.6
Design Fee @ 10.00%		**	0.3	1.2	0.2	0.6	0.3	0.7	0.8	1.4	0.3	1.2
SUBTOTAL		0.7	2.9	12.7	1.8	6.9	2.9	8.1	8.6	15.6	3.1	12.8
Air Monitoring @ 10.00%***		2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
TOTAL		2.6	4.9	14.7	3.8	8.9	4.9	10.0	10.6	17.5	5.1	14.7

* 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 Per Building

AREA 1: Closet 6
 AREA 2: Corridor 21B
 AREA 3: Corridor 2A
 AREA 4: Corridor 31B
 AREA 5: Corridor 41A
 AREA 6: Corridor 4A

AREA 2: Corridor 21A
 AREA 4: Corridor 21C
 AREA 6: Corridor 31A
 AREA 8: Corridor 3A
 AREA 10: Corridor 41B

TABLE 2525.5
(continued)

COST ESTIMATE* - BUILDING 2525, ADMIN.(AVRADA)

DESCRIPTION	UNIT COST (\$)	AREA 12	AREA 13	AREA 14	AREA 15	AREA 16	AREA 17	AREA 18	AREA 19	AREA 20	AREA 21	AREA 22
Pipe Fittings (EA)												
<4"	70.30	1.8	-	0.8	-	-	-	-	-	0.3	-	-
4-8"	85.80	-	-	-	-	-	-	-	-	-	-	-
9-14"	147.00	-	-	-	-	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-	-	-	-
Pipe Runs (LF)												
<4"	26.50	-	-	-	-	-	-	-	-	-	-	-
4-8"	50.50	3.6	1.1	4.0	0.5	-	0.5	1.0	0.5	-	1.7	0.6
9-14"	22.50	-	-	-	-	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	5.6	0.7	7.3	0.7	3.7	-	2.1	-	-	4.7	1.3
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-
SUBTOTAL		11.0	1.8	12.0	1.2	3.7	0.5	3.1	0.5	0.3	6.4	2.0
Difficulty Allowance		2.7	0.6	2.4	0.2	-	0.3	1.6	0.3	-	3.2	1.0
SUBTOTAL		13.7	2.4	14.4	1.4	3.7	0.8	4.7	0.8	0.3	9.6	2.9
Decontamination Units Mobilization		**0.2	**0.2	**0.2	**0.2	**0.2	**0.2	**0.2	**0.2	**0.2	**0.2	**0.2
SUBTOTAL		13.9	2.6	14.6	1.6	3.9	1.0	4.9	1.0	0.5	9.8	3.1
Contingency @ 15.00%		2.1	0.4	2.2	0.2	0.6	0.2	0.7	0.1	**	1.5	0.5
SUBTOTAL		16.0	2.9	16.8	1.8	4.5	1.2	5.6	1.1	0.5	11.3	3.6
Design Fee @ 10.00%		1.6	0.3	1.7	0.2	0.4	0.1	0.6	0.1	**	1.1	0.4
SUBTOTAL		17.6	3.2	18.4	2.0	4.9	1.3	6.2	1.2	0.6	12.4	3.9
Air Monitoring @ 10.00%***		2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
TOTAL		19.5	5.2	20.4	4.0	6.9	3.2	8.1	3.2	2.6	14.4	5.9

* 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 Per Building

AREA 12: Corridor 51A
AREA 14: Corridor 61A
AREA 16: Corridor 6A
AREA 18: Room 2101
AREA 20: Room 2102A
AREA 22: Room 2104

AREA 13: Corridor 51B
AREA 15: Corridor 61B
AREA 17: Mens Room 3100
AREA 19: Room 2102
AREA 21: Room 2103

TABLE 2525.5
(continued)

COST ESTIMATE* - BUILDING 2525, ADMIN. (AVRADA)

DESCRIPTION	UNIT COST (\$)	AREA 23	AREA 24	AREA 25	AREA 26	AREA 27	AREA 28	AREA 29	AREA 30	AREA 31	AREA 32	AREA 33
Pipe Fittings (EA)												
<4"	70.30	-	-	-	-	-	-	-	-	-	-	-
4-8"	85.80	0.7	-	-	0.3	-	-	-	-	-	-	-
9-14"	142.00	-	-	-	-	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-	-	-	-
Pipe Runs (LF)												
<4"	26.50	-	-	-	-	-	-	-	-	-	-	-
4-8"	30.50	1.8	3.1	0.6	1.4	1.8	1.1	0.9	-	-	-	-
9-14"	42.50	-	-	-	-	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	2.2	3.2	1.6	2.2	3.8	7.3	5.6	-	0.5	5.1	2.7
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	2.4	-	-	-	-	12.1	-	-	-
SUBTOTAL		4.7	6.3	4.6	3.9	5.6	8.4	6.5	12.1	0.5	5.1	2.7
Difficulty Allowance		2.3	3.1	1.1	1.9	2.8	4.2	3.2	-	-	2.6	1.3
SUBTOTAL		7.0	9.4	5.7	5.8	8.4	12.5	9.7	12.1	0.5	7.7	4.0
Decontamination Units Mobilization		**0.2	**0.2	**0.2	**0.2	**0.2	**0.2	**0.2	**0.2	**0.2	**0.2	**0.2
SUBTOTAL		7.2	9.6	5.9	6.0	8.6	12.7	9.9	12.3	0.7	7.8	4.2
Contingency @ 15.00%		1.1	1.4	0.9	0.9	1.3	1.9	1.5	1.8	0.1	1.2	0.6
SUBTOTAL		8.3	11.0	6.8	6.9	9.9	14.6	11.4	14.1	0.8	9.0	4.9
Design Fee @ 10.00%		0.8	1.1	0.7	0.7	1.0	1.5	1.1	1.4	**	0.9	0.5
SUBTOTAL		9.1	12.1	7.5	7.6	10.8	16.1	12.6	15.5	0.9	9.9	5.3
Air Monitoring @ 10.00%***		2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
TOTAL		11.1	14.1	9.4	9.6	12.8	18.0	14.5	17.5	2.9	11.9	7.3

*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 Per Building

AREA 23: Room 2105A
AREA 24: Room 2106
AREA 25: Room 2108B
AREA 26: Room 2110B
AREA 27: Room 2200A
AREA 33: Room 2202

AREA 24: Room 2105B
AREA 26: Room 2108
AREA 28: Room 2110A
AREA 30: Room 2200
AREA 32: Room 2201

TABLE 2525.5
(continued)

COST ESTIMATE* - BUILDING 2525, ADMIN. (AVRADA)

DESCRIPTION	UNIT COST (\$)	AREA 34	AREA 35	AREA 36	AREA 37	AREA 38	AREA 39	AREA 40	AREA 41	AREA 42	AREA 43	AREA 44
Pipe Fittings (EA)												
<4"	70.30	-	-	-	-	-	-	-	-	-	-	-
4-8"	85.80	-	-	-	-	-	-	-	-	-	-	-
9-14"	147.00	-	-	-	-	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-	-	-	-
Pipe Runs (LF)												
<4"	26.50	-	-	-	-	-	-	-	-	-	-	-
4-8"	50.50	-	-	-	-	0.5	2.0	1.7	1.2	0.6	1.0	0.5
9-14"	29.50	-	-	-	-	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	4.8	6.7	1.6	1.1	0.8	4.3	3.8	2.2	1.3	2.7	1.1
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-	-	-	-
Other		-	13.2	-	2.1	-	-	-	-	-	-	-
SUBTOTAL		4.8	19.9	1.6	3.2	1.4	6.3	5.5	3.5	1.9	3.7	1.6
Difficulty Allowance		2.4	16.6	-	2.6	0.7	3.1	0.9	1.7	0.3	0.5	0.8
SUBTOTAL		7.3	36.5	1.6	5.8	2.0	9.4	6.3	5.2	2.2	4.2	2.3
Decontamination Units Mobilization		**0.2	**0.2	**0.2	**0.2	**0.2	**0.2	**0.2	**0.2	**0.2	**0.2	**0.2
SUBTOTAL		7.4	36.7	1.8	6.0	2.2	9.6	6.5	5.4	2.4	4.3	2.5
Contingency @ 15.00%		1.1	5.5	0.3	0.9	0.3	1.4	1.0	0.8	0.4	0.7	0.4
SUBTOTAL		8.6	42.2	2.1	6.9	2.6	11.0	7.5	6.2	2.8	5.0	2.9
Design Fee @ 10.00%		0.9	4.2	0.2	0.7	0.3	1.1	0.7	0.6	0.3	0.5	0.3
SUBTOTAL		9.4	46.4	2.3	7.6	2.8	12.1	8.2	6.8	3.0	5.5	3.2
Air Monitoring @ 10.00%***		2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
TOTAL		11.4	48.3	4.2	9.6	4.8	14.1	10.2	8.8	5.0	7.4	5.2

* 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 Per Building

AREA 34: Room 2203
AREA 35: Room 2205
AREA 36: Room 3101
AREA 37: Room 3103
AREA 38: Room 3105A
AREA 39: Room 3106

AREA 35: Room 2204
AREA 37: Room 2206
AREA 39: Room 3102
AREA 41: Room 3104
AREA 43: Room 3105B

TABLE 2525.5
(continued)

COST ESTIMATE* - BUILDING 2525, ADMIN. (AVRADA)

DESCRIPTION	UNIT COST (\$)	AREA 45	AREA 46	AREA 47	AREA 48	AREA 49	AREA 50	AREA 51	AREA 52	AREA 53	AREA 54	AREA 55
Pipe Fittings (EA)												
<4"	70.30	-	-	-	-	-	-	-	-	-	-	-
4-8"	83.80	-	-	-	-	-	-	-	-	-	-	-
9-14"	147.00	-	-	-	-	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-	-	-	-
Pipe Runs (LF)												
<4"	26.50	-	-	-	-	0.5	-	-	-	-	-	-
4-8"	30.50	0.6	1.2	1.2	1.5	0.5	-	-	-	-	-	-
9-14"	42.50	-	-	-	-	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	1.3	2.7	2.7	-	1.3	1.5	2.7	6.7	2.2	3.8	1.6
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-
SUBTOTAL		2.0	3.8	3.9	1.5	2.4	1.5	2.7	6.7	2.2	3.8	1.6
Difficulty Allowance		0.3	1.9	2.0	0.8	0.5	-	-	-	-	-	-
SUBTOTAL		2.3	5.8	5.9	2.3	2.9	1.5	2.7	6.7	2.2	3.8	1.6
Decontamination Units Mobilization		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
		**	**	**	**	**	**	**	**	**	**	**
SUBTOTAL		2.4	6.0	6.0	2.5	3.1	1.7	2.9	6.9	2.3	3.9	1.8
Contingency @ 15.00%		0.4	0.9	0.9	0.4	0.5	0.2	0.4	1.0	0.4	0.6	0.3
SUBTOTAL		2.8	6.9	7.0	2.8	3.5	1.9	3.3	7.9	2.7	4.5	2.1
Design Fee @ 10.00%		0.3	0.7	0.7	0.3	0.4	0.2	0.3	0.8	0.3	0.5	0.2
SUBTOTAL		3.1	7.5	7.7	3.1	3.9	2.1	3.6	8.7	3.0	5.0	2.3
Air Monitoring @ 10.00%***		2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
TOTAL		5.1	9.5	9.6	5.1	5.8	4.1	5.6	10.7	4.9	7.0	4.2

* 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 Per Building

AREA 45: Room 3107
AREA 47: Room 3108B
AREA 46: Room 3110
AREA 51: Room 3201
AREA 52: Room 3203
AREA 55: Room 3205

AREA 46: Room 3108A
AREA 48: Room 3109
AREA 50: Room 3200
AREA 54: Room 3202
AREA 54: Room 3204

TABLE 2525.5
(continued)

COST ESTIMATE* - BUILDING 2525, ADMIN. (AVRADA)

DESCRIPTION	UNIT COST (\$)	AREA 56	AREA 57	AREA 58	AREA 59	AREA 60	AREA 61	AREA 62	AREA 63	AREA 64	AREA 65	AREA 66
Pipe Fittings (EA)												
<4"	70.30	-	-	-	**	-	0.4	-	0.3	0.1	0.1	0.1
4-8"	85.80	-	-	-	-	-	-	-	-	-	-	-
9-14"	147.00	-	-	-	-	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-	-	-	-
Pipe Runs (LF)												
<4"	26.50	-	-	-	0.9	-	-	0.6	0.5	0.8	0.5	0.4
4-8"	30.50	-	-	-	1.0	2.7	0.2	0.7	0.6	0.9	0.5	0.5
9-14"	22.50	-	-	-	-	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	2.7	7.8	1.1	4.3	-	-	3.2	2.7	4.3	2.5	2.2
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-	-	-	-
Other		-	27.7	-	-	-	-	-	-	-	-	-
SUBTOTAL		2.7	35.6	1.1	6.2	2.7	0.5	4.5	4.1	6.2	3.6	3.2
Difficulty Allowance		-	27.7	-	1.0	1.3	**	1.4	2.1	0.9	0.6	0.5
SUBTOTAL		2.7	63.3	1.1	7.2	4.0	0.6	5.9	6.2	7.1	4.2	3.7
Decontamination Units Mobilization		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
SUBTOTAL		2.9	63.5	1.3	7.4	4.2	0.8	6.1	6.4	7.3	4.4	3.9
Contingency @ 15.00%		0.4	9.5	0.2	1.1	0.6	0.1	0.9	1.0	1.1	0.7	0.6
SUBTOTAL		3.3	73.0	1.5	8.5	4.8	0.9	7.0	7.3	8.4	5.0	4.5
Design Fee @ 10.00%		0.3	7.3	0.1	0.8	0.5	**	0.7	0.7	0.8	0.5	0.5
SUBTOTAL		3.6	80.3	1.6	9.3	5.3	1.0	7.7	8.0	9.2	5.6	5.0
Air Monitoring @ 10.00%***		2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
TOTAL		5.6	82.2	3.6	11.3	7.3	2.9	9.7	10.0	11.1	7.5	6.9

*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 Per Building

AREA 56: Room 3206
AREA 58: Room 3208
AREA 59: Room 2101
AREA 60: Room 2102
AREA 62: Room 2102
AREA 64: Room 2106
AREA 66: Room 4107

AREA 57: Room 3207
AREA 61: Room 2100
AREA 63: Room 2101A
AREA 65: Room 2102
AREA 65: Room 2106

TABLE 2525.5
(continued)

COST ESTIMATE* - BUILDING 2525, ADMIN. (AVRADA)

DESCRIPTION	UNIT COST (\$)	AREA 67	AREA 68	AREA 69	AREA 70	AREA 71	AREA 72	AREA 73	AREA 74	AREA 75	AREA 76	AREA 77
Pipe Fittings (EA)												
<4"	70.30	-	-	-	-	-	-	-	-	-	-	-
4-8"	85.80	-	-	-	-	-	-	-	-	-	-	-
9-14"	147.00	-	-	-	-	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-	-	-	-
Pipe Runs (LF)												
<4"	26.50	0.3	0.3	0.8	0.3	-	-	-	-	-	-	-
4-8"	30.50	0.4	0.3	1.0	0.3	-	-	-	-	-	-	-
9-14"	72.50	-	-	-	-	-	-	-	-	-	-	-
>14"	86.80	-	-	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	1.6	1.6	4.3	1.3	674.4	1.2	5.4	6.5	3.8	1.2	2.7
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-	-	-	4.5	-
SUBTOTAL		2.3	2.2	6.1	1.9	674.4	1.2	5.4	6.5	3.8	5.7	2.7
Difficulty Allowance		0.3	0.3	3.1	1.0	337.2	-	2.7	3.3	1.9	0.6	1.3
SUBTOTAL		2.6	2.5	9.2	2.9	1011.6	1.2	8.1	9.8	5.6	6.3	4.0
Decontamination Units Mobilization		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
SUBTOTAL		2.8	2.7	9.4	3.1	1011.8	1.4	8.3	10.0	5.8	6.5	4.2
Contingency @ 15.00%		0.4	0.4	1.4	0.5	151.8	0.2	1.2	1.5	0.9	1.0	0.6
SUBTOTAL		3.2	3.1	10.8	3.5	1163.6	1.6	9.5	11.5	6.7	7.5	4.9
Design Fee @ 10.00%		0.3	0.3	1.1	0.4	116.4	0.2	0.9	1.1	0.7	0.7	0.5
SUBTOTAL		3.6	3.4	11.9	3.9	1279.9	1.8	10.4	12.6	7.4	8.2	5.3
Air Monitoring @ 10.00%***		2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
TOTAL		5.5	5.3	13.8	5.8	1281.9	3.7	12.4	14.6	9.3	10.2	7.3

* 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 Per Building

AREA 67: Room 4108A
AREA 68: Room 4209
AREA 69: Room 4200
AREA 71: Room 4202
AREA 73: Room 4202
AREA 75: Room 4202
AREA 77: Room 4206

AREA 68: Room 4108B
AREA 70: Room 4210
AREA 72: Room 4201
AREA 74: Room 4203
AREA 76: Room 4205

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* Amounts Are In Thousands Of Dollars

***The Minimum Air Monitoring Fee is \$500.00 Per Building

AREA	79	Room	4209
AREA	81	Room	1100
AREA	83	Room	5101
AREA	85	Room	5103
AREA	87	Room	5106

TABLE 2525.5
(continued)

COST ESTIMATE* - BUILDING 2525, ADMIN.(AVRADA)

DESCRIPTION	UNIT COST (\$)	AREA 89	AREA 90	AREA 91	AREA 92	AREA 93	AREA 94	AREA 95	AREA 96	AREA 97	AREA 98	AREA 99
Pipe Fittings (EA)												
<4"	70.30	-	-	-	-	-	-	-	-	-	-	-
4-8"	85.80	-	-	-	-	-	-	-	-	-	-	-
9-14"	147.00	-	-	-	-	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-	-	-	-
Pipe Runs (LF)												
<4"	26.50	-	-	-	-	-	-	-	-	-	-	-
4-8"	30.50	-	1.8	1.2	1.0	1.2	1.2	0.7	-	-	-	-
9-14"	42.50	-	-	-	-	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	4.0	2.7	2.1	2.2	4.5	2.7	1.6	6.8	2.6	1.7	2.6
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	6.6	-	-
SUBTOTAL		4.0	4.5	3.4	3.1	5.7	3.9	2.3	6.8	9.2	1.7	2.6
Difficulty Allowance		2.0	2.2	1.7	1.6	0.6	2.0	1.2	3.4	1.3	0.9	1.3
SUBTOTAL		6.0	6.7	5.0	4.7	6.3	5.9	3.5	10.2	10.5	2.6	3.8
Decontamination Units Mobilization		**0.2	**0.2	**0.2	**0.2	**0.2	**0.2	**0.2	**0.2	**0.2	**0.2	**0.2
SUBTOTAL		6.2	6.9	5.2	4.9	6.5	6.0	3.7	10.4	10.6	2.8	4.0
Contingency @ 15.00%		0.9	1.0	0.8	0.7	1.0	0.9	0.6	1.6	1.6	0.4	0.6
SUBTOTAL		7.2	7.9	6.0	5.6	7.5	7.0	4.3	12.0	12.2	3.2	4.6
Design Fee @ 10.00%		0.7	0.8	0.6	0.6	0.7	0.7	0.4	1.2	1.2	0.3	0.5
SUBTOTAL		7.9	8.7	6.6	6.2	8.2	7.7	4.7	13.2	13.5	3.6	5.1
Air Monitoring @ 10.00%***		2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
TOTAL		9.8	10.7	8.6	8.1	10.2	9.6	6.6	15.2	15.4	5.5	7.0

* 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 Per Building

AREA 89: Room 5108A and B
AREA 91: Room 5109B
AREA 93: Room 5111
AREA 95: Room 5114
AREA 97: Room 5201
AREA 99: Room 5203

AREA 90: Room 5109A
AREA 92: Room 5110
AREA 94: Room 5112
AREA 96: Room 5200
AREA 98: Room 5202

TABLE 2525.5
(continued)

COST ESTIMATE* - BUILDING 2525, ADMIN. (AVRADA)

DESCRIPTION	UNIT COST (\$)	AREA 100	AREA 101	AREA 102	AREA 103	AREA 104	AREA 105	AREA 106	AREA 107	AREA 108	AREA 109	AREA 110
Pipe Fittings (EA)												
<4"	70.30	-	-	-	-	-	-	-	-	-	0.4	0.1
4-8"	85.80	-	-	-	-	-	-	-	-	-	-	-
9-14"	147.00	-	-	-	-	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-	-	-	-
Pipe Runs (LF)												
<4"	26.50	-	-	-	-	-	-	-	-	-	2.1	-
4-8"	30.50	-	-	-	-	-	-	-	-	-	7.3	0.6
9-14"	23.50	-	-	-	-	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	1.5	2.7	2.7	1.6	2.7	1.6	3.8	1.9	2.2	30.2	-
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-	-	-	-
Other		-	-	7.5	-	-	-	-	0.8	-	9.9	-
SUBTOTAL		1.5	2.7	10.2	1.6	2.7	1.6	3.8	2.7	2.2	49.9	0.8
Difficulty Allowance		0.8	1.3	7.5	-	1.3	0.8	-	1.7	1.1	29.9	0.4
SUBTOTAL		2.3	4.0	17.6	1.6	4.0	2.4	3.8	4.4	3.2	79.9	1.1
Decontamination Units Mobilization		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
SUBTOTAL		2.5	4.2	17.8	1.8	4.2	2.6	3.9	4.6	3.4	80.1	1.3
Contingency @ 15.00%		0.4	0.6	2.7	0.3	0.6	0.4	0.6	0.7	0.5	12.0	0.2
SUBTOTAL		2.9	4.9	20.5	2.1	4.9	3.0	4.5	5.3	3.9	92.1	1.5
Design Fee @ 10.00%		0.3	0.5	2.1	0.2	0.5	0.3	0.5	0.5	0.4	9.2	0.2
SUBTOTAL		3.2	5.3	22.6	2.3	5.3	3.3	5.0	5.8	4.3	101.3	1.7
Air Monitoring @ 10.00%***		2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
TOTAL		5.1	7.3	24.5	4.2	7.3	5.3	7.0	7.8	6.3	103.2	3.6

*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 Per Building

AREA 100: Room 5204
AREA 101: Room 5202
AREA 102: Room 5208
AREA 103: Room 5210
AREA 104: Room 5213
AREA 105: Room 5213
AREA 106: Room 5213
AREA 107: Room 5213
AREA 108: Room 5213
AREA 109: Room 5213
AREA 110: Room 6101 Mens

AREA 101: Room 5205
AREA 102: Room 5207
AREA 103: Room 5207
AREA 104: Room 5207
AREA 105: Room 5207
AREA 106: Room 5207
AREA 107: Room 5207
AREA 108: Room 5207
AREA 109: Room 5207
AREA 110: Room 5207

TABLE 2525.5
(continued)

COST ESTIMATE* - BUILDING 2525, ADMIN. (AVRADA)

DESCRIPTION	UNIT COST (\$)	AREA 111	AREA 112	AREA 113	AREA 114	AREA 115	AREA 116	AREA 117	AREA 118	TOTAL
Pipe Fittings (EA)										
<4"	70.30	-	0.3	-	-	-	-	-	-	5.9
4-8"	85.80	-	-	-	-	-	-	-	-	1.0
9-14"	147.00	-	-	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-	-
Pipe Runs (LF)										
<4"	26.50	-	1.7	-	-	-	-	-	-	10.6
4-8"	40.50	1.7	5.5	-	-	-	-	-	-	82.0
9-14"	79.50	-	-	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	3.8	20.2	3.8	3.5	1.6	2.2	3.2	16.8	1046.5
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-	-	86.8
SUBTOTAL		5.5	27.6	3.8	3.5	1.6	2.2	3.2	16.8	1232.9
Difficulty Allowance		2.7	13.8	1.9	1.7	0.8	1.1	1.6	8.4	572.4
SUBTOTAL		8.2	41.4	5.6	5.2	2.4	3.2	4.8	25.2	1805.3
Decontamination Units Mobilization		**0.2	**0.2	**0.2	**0.2	**0.2	**0.2	**0.2	**0.2	20.0
SUBTOTAL		8.4	41.5	5.8	5.4	2.6	3.4	4.9	25.4	1827.3
Contingency @ 15.00%		1.3	6.2	0.9	0.8	0.4	0.5	0.7	3.8	274.1
SUBTOTAL		9.7	47.8	6.7	6.2	3.0	3.9	5.7	29.2	2101.4
Design Fee @ 10.00%		1.0	4.8	0.7	0.6	0.3	0.4	0.6	2.9	210.1
SUBTOTAL		10.6	52.6	7.4	6.9	3.3	4.3	6.3	32.1	2311.5
Air Monitoring @ 10.00%***		2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	231.2
TOTAL		12.6	54.5	9.3	8.8	5.3	6.3	8.2	34.1	2542.7

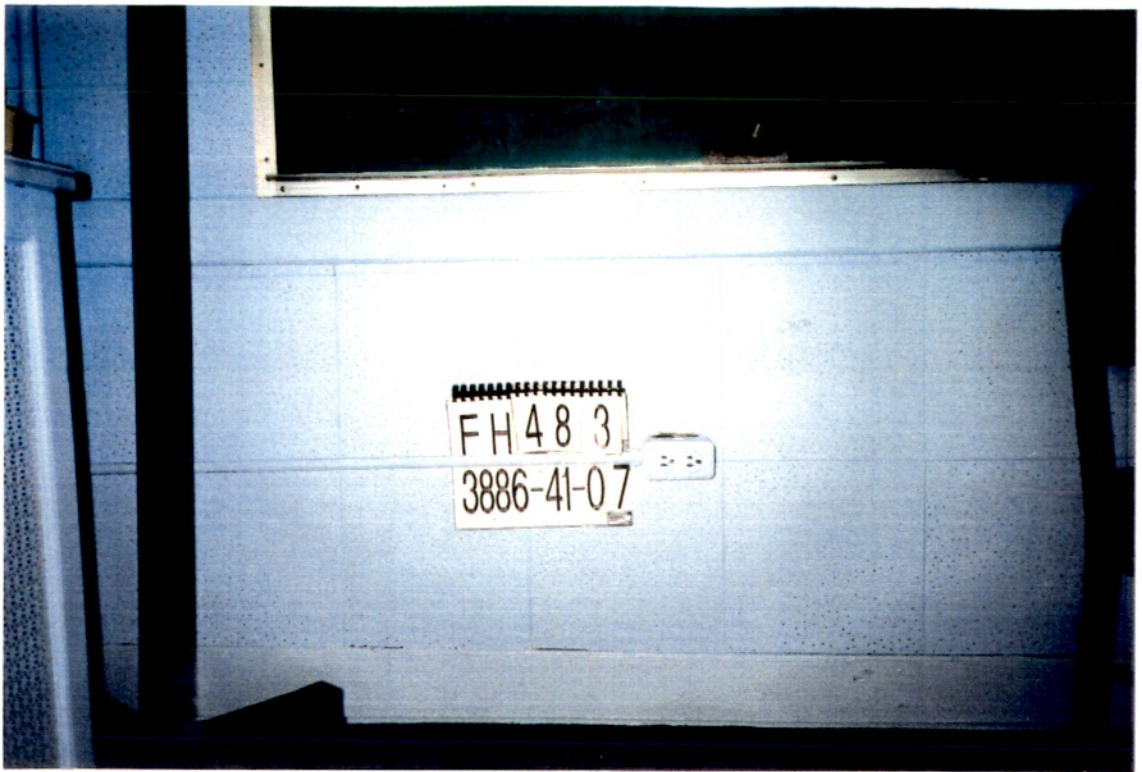
*Amounts Are In Thousands Of Dollars

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

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

AREA 111: Room 6103
AREA 112: Room 6200
AREA 113: Room 6203
AREA 114: Room 6207

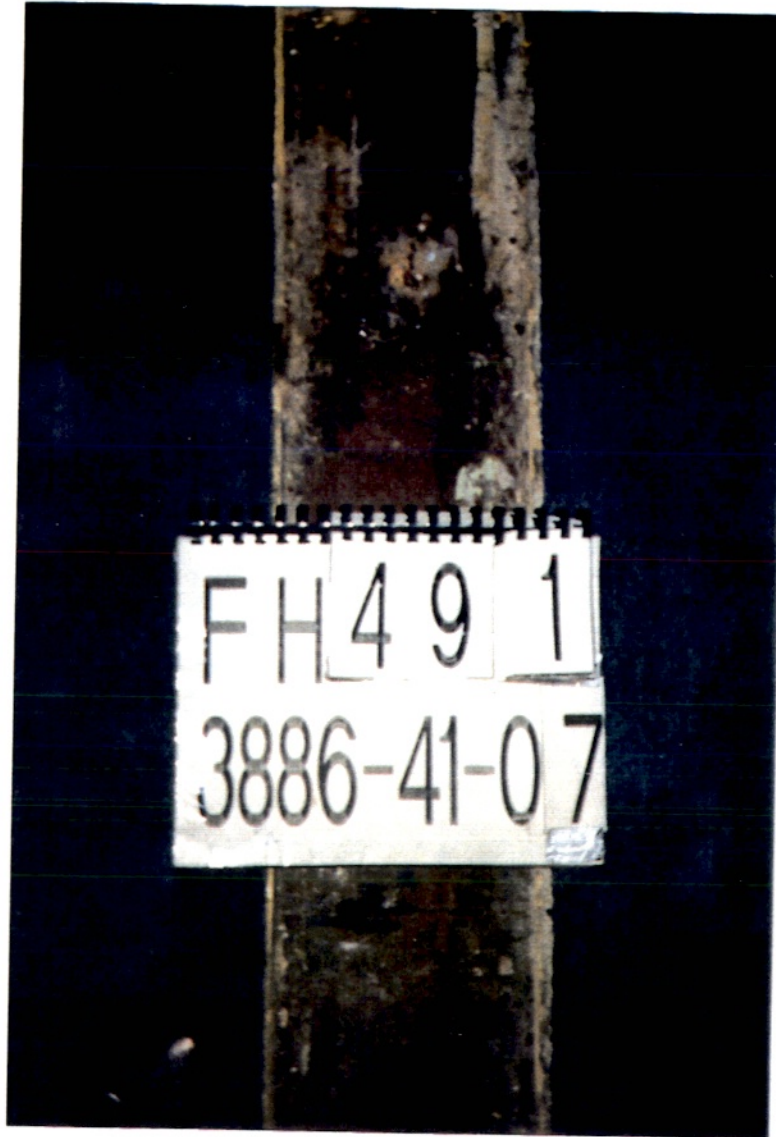
AREA 112: Room 6105
AREA 116: Room 6202A
AREA 116: Room 6205
AREA 118: Room 6210



Bldg. 2525 Room 2106: Sample FH483, 12 x 12" acoustical wall tiles tested positive.



Bldg. 2525 Corridor 21A: Sample FH485, 12 x 12" tan floor tiles tested positive.



Bldg. 2525 Room 2110A; Sample No. FH491, 9 x 9" brown floor tiles under carpet and 12 x 12" tan floor tiles tested positive; sample FH492, 12 x 12" tan floor tiles also tested positive.



Bldg. 2525 Room 3110:

Sample FH493, < 4" pipe run tested positive. Sample FH494 (not shown) < 4" mud fitting tested positive; sample FH495 (not shown) < 4" pipe run also tested positive.

SECTION 2525.4
PHOTOGRAPHS



Bldg. 2525 Room 2101: Sample FH477, 12 x 12" tan floor tiles tested positive.



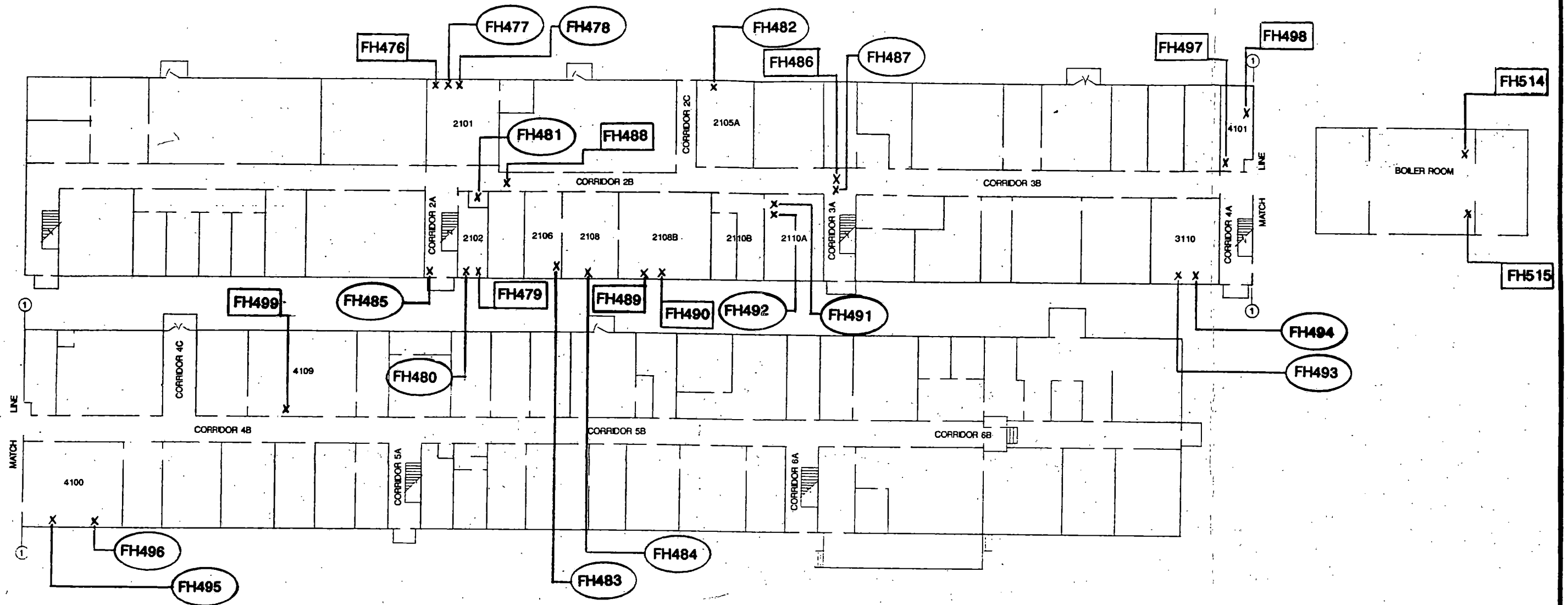
Bldg. 2525 Room 2101: Sample FH478, 4 - 8" pipe run tested positive; sample FH480 (not shown) 4 - 8" pipe run also tested positive.



Bldg. 2525 Room 2102A: Sample FH481, < 4" mud fitting tested positive.



Bldg. 2525 Room 2105A: Sample FH482, 4 - 8" mud fitting tested positive. Samples FH484 (not shown) 4 - 8" mud fitting tested positive.



BLDG. 2525
FIRST FLOOR PLAN

LEGEND
FHnnn POSITIVE SAMPLE
FHnnn NEGATIVE SAMPLE



2534

2534

ADMINISTRATION BUILDING

ADMINISTRATION BUILDING**2534.1 GENERAL**

Building 2534 was surveyed by WESTON technicians on 9 January 1991.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 6 samples of suspect material collected from the building. Of these samples, 3 were found to be asbestos-containing materials (ACM). Table 2534.1 lists the analytical results for the bulk samples.

2534.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 2534 are presented in Table 2534.1. An area-by-area inventory of ACM is provided in Tables 2534.2 and 2534.3. "Other Asbestos-Containing Materials," listed in Table 2534.3, are materials that do not correspond to the standard caption categories listed in Table 2534.2. A prioritized listing of exposure assessments is presented in Table 2534.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 2534.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 2534.2 and 2534.5.

2534.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- Asbestos-containing floor tile should be labeled under the O&M Program.

TABLE 2534.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 2534, ADMINISTRATION

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH504	FIRST FLOOR,BELOW CEILING	FLOOR TILE	GREEN,OTH,9X9 FL TL	5	-	-	NO
FH505	SECOND FLOOR,BELOW CEILING	FLOOR TILE	GREEN,OTH,9X9 FL TL	5	-	-	NO
FH506	SECOND FLOOR,BELOW CEILING	FLOOR TILE	GREEN,OTH,9X9 FL TL	5	-	-	NO
FH507	SECOND FLOOR,BELOW CEILING	CEILING TILE	WHITE,OTH,1X1 CL TL	-	-	-	YES
FH508	SECOND FLOOR,BELOW CEILING	CEILING TILE	WHITE,OTH,1X1 CL TL	-	-	-	YES
FH509	FIRST FLOOR,BELOW CEILING	CEILING TILE	WHITE,OTH,1X1 CL TL	-	-	-	YES

^aAsbestos 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 2534.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 2534, ADMINISTRATION

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROVELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
First Floor	-	-	-	-	-	-	-	-	-	2.30	-	-	-
Second Floor	-	-	-	-	-	-	-	-	-	2.30	-	-	-
TOTALS	-	-	-	-	-	-	-	-	-	4.60	-	-	-

* Other Material Present In Various Units Of Measure

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

Table 2534.3

**Other Asbestos-Containing Material - Building 2534, Administration Building
Type Occupancy: Adults (Public)**

Area	Material Type	Quantity (Unit)
No Other Asbestos-Containing Material Found in this Building.		

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

2534-5

TABLE 2534.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2534, ADMINISTRATION

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH507	Second Floor	CEILING TILE	A	0	3	1	2	1	0	0.00	0
FH508	Second Floor	CEILING TILE	A	0	3	1	2	1	0	0.00	0
FH509	First Floor	CEILING TILE	A	0	3	1	2	1	0	0.00	0

Priority Index Codes

A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability

2 [=] Occupant Accessibility

3 [=] Material Condition

4 [=] Level Of Activity

5 [=] Number Of Assigned Occupants

TABLE 2534.5

COST ESTIMATE* - BUILDING 2534, ADMINISTRATION

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	TOTAL
Pipe Fittings (EA)				
<4"	70.30	-	-	-
4-8"	85.80	-	-	-
9-14"	147.00	-	-	-
>14"	216.00	-	-	-
Pipe Runs (LF)				
<4"	26.50	-	-	-
4-8"	30.50	-	-	-
9-14"	23.50	-	-	-
>14"	20.80	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-
Floor Tile (SF)	5.60	12.9	12.9	25.8
Boilers/Tanks (SF)	37.90	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-
Other		-	-	-
SUBTOTAL		12.9	12.9	25.8
Difficulty Allowance		-	-	-
SUBTOTAL		12.9	12.9	25.8
Decontamination Units		3.0	3.0	6.0
Mobilization		1.0	1.0	2.0
SUBTOTAL		16.9	16.9	33.8
Contingency @ 15.00%		2.5	2.5	5.1
SUBTOTAL		19.4	19.4	38.8
Design Fee @ 10.00%		1.9	1.9	3.9
SUBTOTAL		21.4	21.4	42.7
Air Monitoring @ 10.00%***		2.1	2.1	4.3
TOTAL		23.5	23.5	47.0

* Amounts Are In Thousands Of Dollars

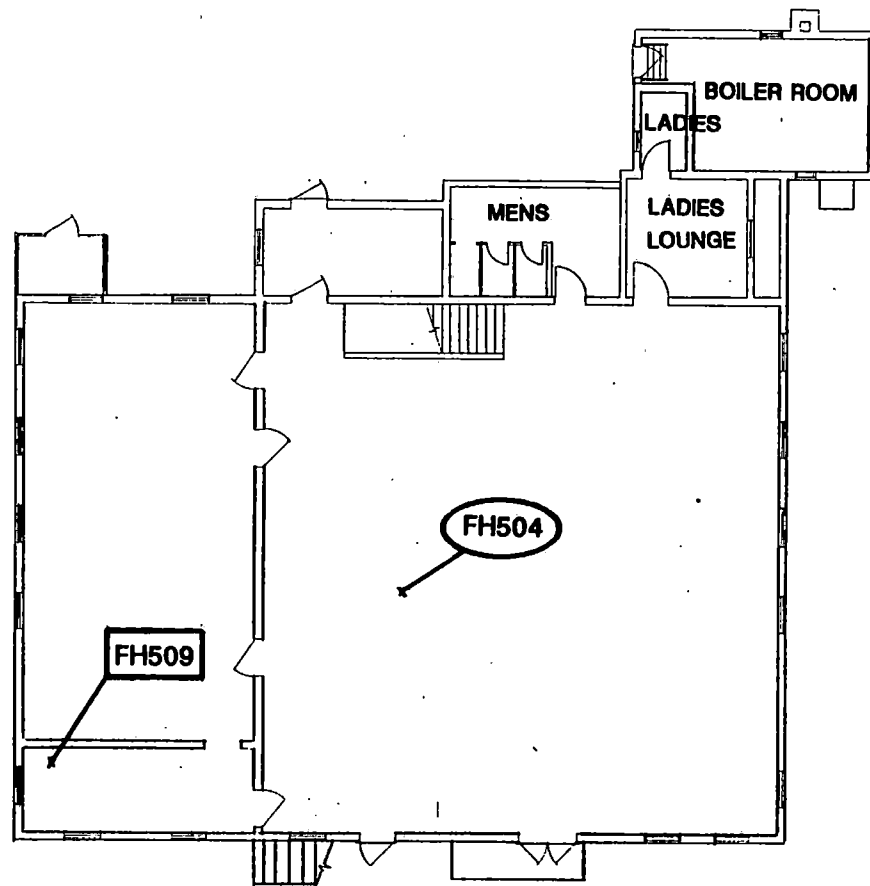
** Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

*** The Minimum Air Monitoring Fee is \$500.00 Per Building

AREA 1: First Floor

AREA 2: Second Floor

2534-8



BLDG. 2534
FIRST FLOOR PLAN

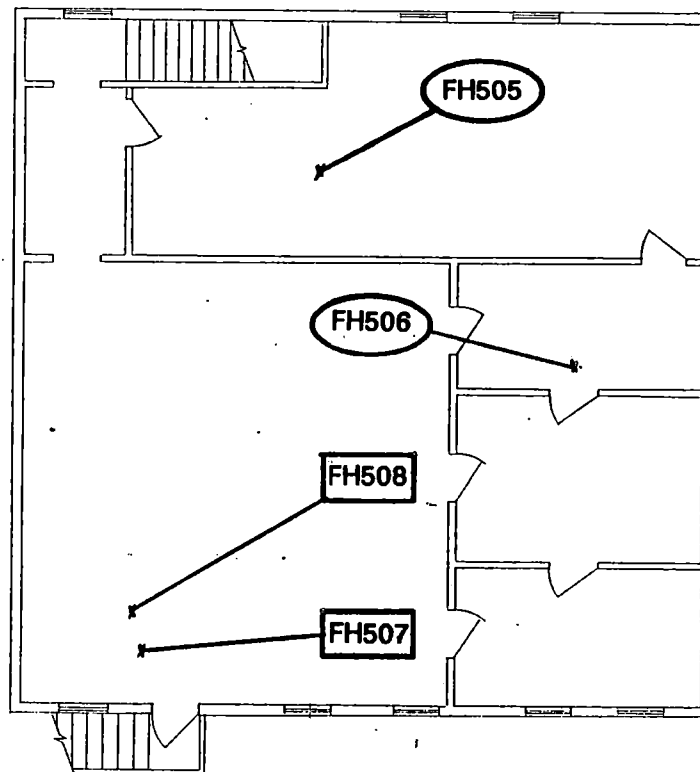
LEGEND

FHnnn POSITIVE SAMPLE

FHnnn NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

2534-9



BLDG. 2534
SECOND FLOOR PLAN

LEGEND

 FHnnn POSITIVE SAMPLE

 FHnnn NEGATIVE SAMPLE



2536

2536

FIREHOUSE 3

FIREHOUSE 3

2536.1 GENERAL

Building 2536 was surveyed by WESTON technicians on 9 January 1991.

The first three portions of this facility report summarize the results of this inspection. Photographs of some sample locations are provided in Section 2536.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 4 samples of suspect material collected from the building. Of these samples, one was found to be asbestos-containing materials (ACM). Table 2536.1 lists the analytical results for the bulk samples.

2536.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 2536 are presented in Table 2536.1. An area-by-area inventory of ACM is provided in Tables 2536.2 and 2536.3. "Other Asbestos-Containing Materials," listed in Table 2536.3, are materials that do not correspond to the standard caption categories listed in Table 2536.2. A prioritized listing of exposure assessments is presented in Table 2536.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 2536.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 2536.2 and 2536.5.

2536.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- Asbestos-containing floor tile should be labeled under the O&M Program.

TABLE 2536.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 2536, FIREHOUSE 3

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH500	DISPATCH/STOR.,BELOW CEILING	CEILING TILE	WHITE,OTH,2X2 CL TL,HORIZONTAL	-	-	-	NO
FH501	CORRIDOR,BELOW CEILING	FLOOR TILE	RED,OTH,1X1 FL TL,HORIZONTAL	1	-	-	NO
FH502	CORRIDOR,BELOW CEILING	CEILING TILE	WHITE,OTH,2X4 CL TL,HORIZONTAL	-	-	-	NO
FH503	KITCHEN,BELOW CEILING	FLOOR TILE	TAN,OTH,1X1 FL TL,HORIZONTAL	-	-	-	NO

^aAsbestos 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 2536.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 2536, FIREHOUSE 3

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"	9-14"	>14"					
Corridor	-	-	-	-	-	-	-	-	-	0.03	-	-	-
Lavatory	-	-	-	-	-	-	-	-	-	0.07	-	-	-
TOTALS	-	-	-	-	-	-	-	-	-	0.10	-	-	-

* Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

Table 2536.3

Other Asbestos-Containing Material - Building 2536, Firehouse 3
Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
No Other Asbestos-Containing Material Found in this Building		

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

2536-5

TABLE 2536.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2536, FIREHOUSE 3

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH500	Chief	CEILING TILE	A	0	1	3	1	3	6	40.00	0
FH500	Dispatch/Stor.	CEILING TILE	A	0	1	3	1	3	6	40.00	0
FH500	Squad Room	CEILING TILE	A	0	1	3	1	3	6	40.00	0
FH502	Corridor	CEILING TILE	A	0	1	3	1	3	6	40.00	0

Priority Index Codes

A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability

2 [=] Occupant Accessibility

3 [=] Material Condition

4 [=] Level Of Activity

5 [=] Number Of Assigned Occupants

TABLE 2536.5

COST ESTIMATE* - BUILDING 2536, FIREHOUSE 3

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	TOTAL
Pipe Fittings (EA)				
<4"	70.30	-	-	-
4-8"	85.80	-	-	-
9-14"	147.00	-	-	-
>14"	216.00	-	-	-
Pipe Runs (LF)				
<4"	26.50	-	-	-
4-8"	30.50	-	-	-
9-14"	42.50	-	-	-
>14"	60.80	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-
Floor Tile (SF)	5.60	0.2	0.4	0.6
Boilers/Tanks (SF)	37.90	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-
Other		-	-	-
SUBTOTAL		0.2	0.4	0.6
Difficulty Allowance		-	-	-
SUBTOTAL		0.2	0.4	0.6
Decontamination Units		1.5	1.5	3.0
Mobilization		1.0	1.0	2.0
SUBTOTAL		2.7	2.9	5.6
Contingency @ 15.00%		0.4	0.4	0.8
SUBTOTAL		3.1	3.3	6.4
Design Fee @ 10.00%		0.3	0.3	0.6
SUBTOTAL		3.4	3.7	7.0
Air Monitoring @ 10.00%***		0.4	0.4	0.7
TOTAL		3.7	4.0	7.7

*Amounts Are In Thousands Of Dollars

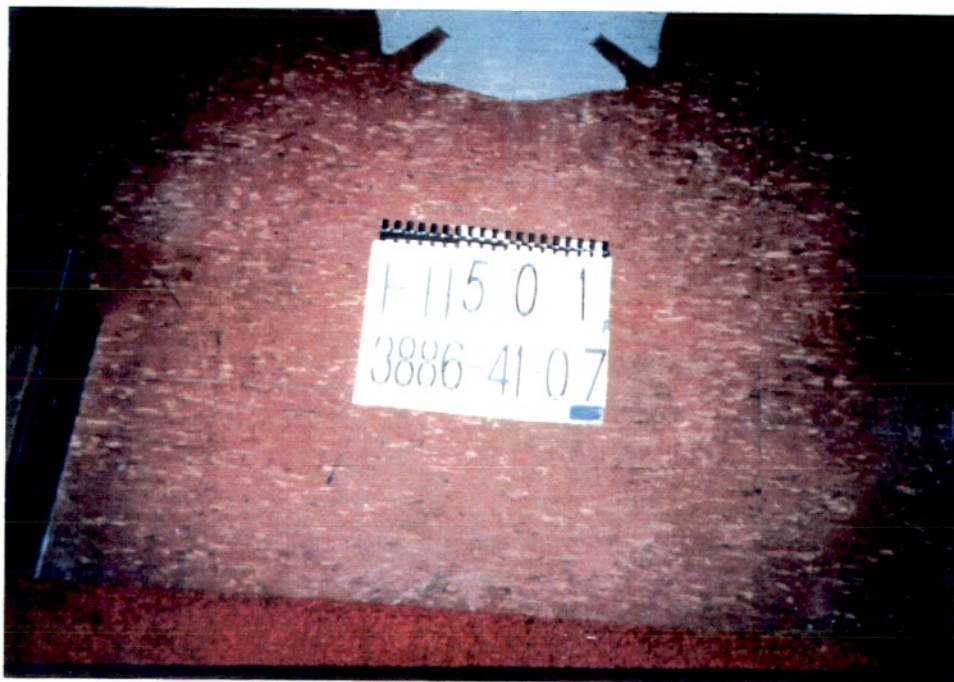
** Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

*** The Minimum Air Monitoring Fee is \$500.00 Per Building

AREA 1: Corridor

AREA 2: Lavatory

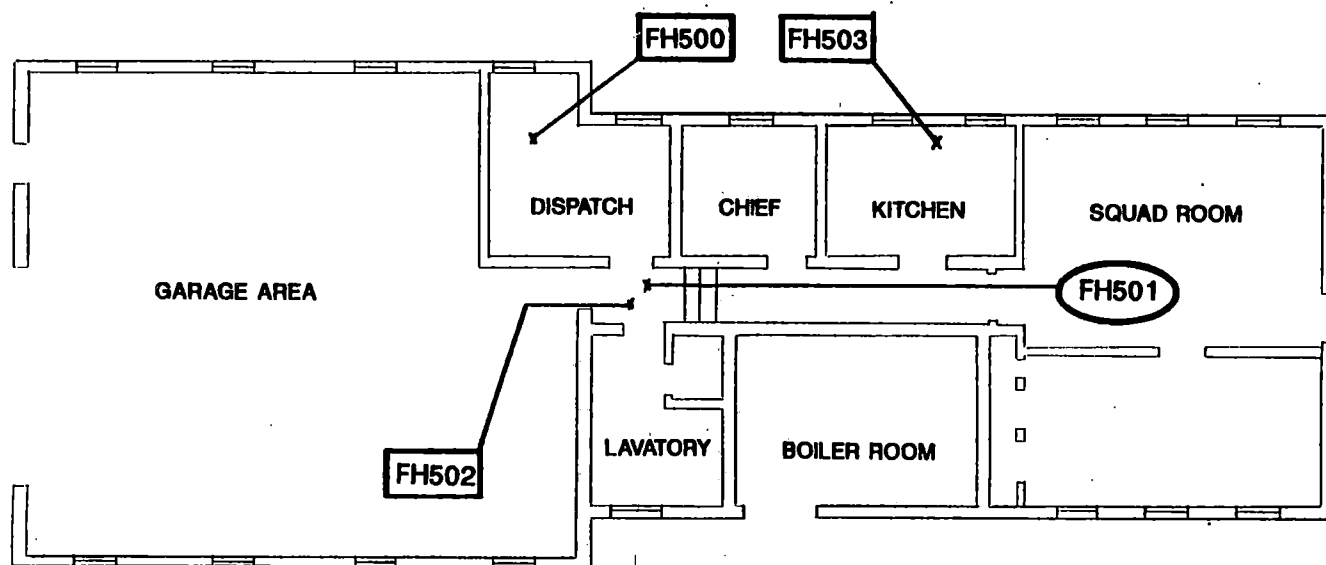
SECTION 2536.4
PHOTOGRAPHS



Bldg. 2536 - Fire Station, Hallway:

12 x 12" red floor tiles
tested positive.

2536-9



BLDG. 2536

LEGEND

FHnnn POSITIVE SAMPLE

FHnnn NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

2704

2704

LABORATORY (TEST CHAMBER)

LABORATORY (TEST CHAMBER)**2704.1 GENERAL**

Building 2704 was surveyed by WESTON technicians on 14 January 1991.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 22 samples of suspect material collected from the building. Of these samples, 7 were found to be asbestos-containing materials (ACM). Table 2704.1 lists the analytical results for the bulk samples.

2704.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 2704 are presented in Table 2704.1. An area-by-area inventory of ACM is provided in Tables 2704.2 and 2704.3. "Other Asbestos-Containing Materials," listed in Table 2704.3, are materials that do not correspond to the standard caption categories listed in Table 2704.2. A prioritized listing of exposure assessments is presented in Table 2704.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 2704.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 2704.2 and 2704.5.

2704.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- Asbestos-containing floor tile, pipe insulation, and fitting insulation should be labeled under the O&M Program.

TABLE 2704.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 2704, LAB. (TEST CHAMBER)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH516	POWER ROOM,BELOW CEILING	FLOOR TILE	GRAY,OTH,9X9 FL TL	5	-	-	NO
FH517	POWER ROOM,BELOW CEILING	FLOOR TILE	BLACK,OTH,9X9 FL TL	5	-	-	NO
FH518	STORAGE,BELOW CEILING	FLOOR TILE	BROWN,OTH,9X9 FL TL	3	-	-	NO
FH519	STORAGE,BELOW CEILING	FLOOR TILE	TAN,OTH,9X9 FL TL	3	-	-	NO
FH520	TEST AREA,BELOW CEILING	FLOOR TILE	GRAY,OTH,12X12 FL	1	-	-	YES
FH521	OFFICE,BELOW CEILING	ACOUSTICAL WALL TILE	WHITE,OTH,1X1 WL TL	-	-	-	YES
FH522	WOMENS,BELOW CEILING	CEILING TILE	WHITE,OTH,2X4 CL TL	-	-	-	NO
FH523	CORRIDOR I,BELOW CEILING	ACOUSTICAL WALL TILE	WHITE,OTH,1X1 WL TL	-	-	-	YES
FH524	CORRIDOR I,BELOW CEILING	ACOUSTICAL WALL TILE	WHITE,OTH,1X1 WL TL	-	-	-	NO
FH525	CORRIDOR I,BELOW CEILING	ACOUSTICAL WALL TILE	WHITE,OTH,1X1 WL TL	-	-	-	NO
FH526	CORRIDOR I,BELOW CEILING	CEILING TILE	WHITE,OTH,2X4 CL TL	-	-	-	YES
FH527	TEST AREA,BELOW CEILING	ACOUSTICAL WALL TILE	WHITE,OTH,1X1 WL TL	-	-	-	YES
FH528	TEST AREA,BELOW CEILING	ACOUSTICAL WALL TILE	WHITE,OTH,1X1 WL TL	-	-	-	YES
FH529	TEST AREA,BELOW CEILING	ACOUSTICAL WALL TILE	WHITE,OTH,1X1 WL TL	-	-	-	YES
FH530	WORK AREA,BELOW CEILING	CEILING TILE	WHITE,OTH,2X4 CL TL	-	-	-	NO
FH531	WORK AREA,BELOW CEILING	ACOUSTICAL WALL TILE	WHITE,OTH,1X1 WL TL	-	-	-	NO
FH532	MEZZ. OFFICE,BELOW CEILING	CEILING TILE	WHITE,OTH,2X4 CL TL	-	-	-	NO
FH533	MENS,BELOW CEILING	<4" PIPE FITTING	WHITE,STM,<4IN. FIT	1	-	-	NO
FH534	POWER ROOM,BELOW CEILING	<4" PIPE FITTING	WHITE,STM,<4IN. FIT	-	-	-	NO
FH535	WOMENS ROOM,BELOW CEILING	<4" PIPE FITTING	WHITE,STM,<4IN. FIT	45	-	-	NO
FH536	POWER ROOM,BELOW CEILING	4-8" PIPE FITTING	WHITE,STM,4-8IN. FIT	-	-	-	YES
FH537	POWER ROOM,BELOW CEILING	4-8" PIPE FITTING	WHITE,STM,4-8IN. FIT	-	-	-	YES

^a 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 2704.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 2704, LAB.(TEST CHAMBER)

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROVELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
Corridor I	-	-	-	-	-	-	-	-	-	0.49	-	-	-
Janitor Closet	7	-	-	-	-	-	-	-	-	-	-	-	-
Mens	4	-	-	-	-	-	-	-	-	-	-	-	-
Mezz. Office	6	-	-	-	-	-	-	-	-	0.84	-	-	-
Office	-	-	-	-	-	-	-	-	-	0.27	-	-	-
Power Room	-	-	-	-	-	-	-	-	-	0.42	-	-	-
Storage	-	-	-	-	-	-	-	-	-	0.13	-	-	-
Test Area	-	-	-	-	-	-	-	-	-	4.60	-	-	-
Womens	-	-	-	-	-	-	-	-	-	0.08	-	-	-
Womens Room	14	-	-	-	-	-	-	-	-	-	-	-	-
Work Area	-	-	-	-	-	-	-	-	-	0.90	-	-	-
TOTALS	31	-	-	-	-	-	-	-	-	7.72	-	-	-

* Other Material Present In Various Units Of Measure

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

Table 2704.3

**Other Asbestos-Containing Material - Building 2704, Test Chamber
Type Occupancy: Adults (Public)**

Area	Material Type	Quantity (Unit)
No Other Asbestos-Containing Material Found in this Building		

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

2704-5

TABLE 2704.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2704, LAB. (TEST CHAMBER)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH535	Janitor Closet	<4" PIPE FITTING	A	4.640E01	1	2	1	2	8	40.00	45
FH535	Mezz. Office	<4" PIPE FITTING	A	4.640E01	1	2	1	2	8	40.00	45
FH535	Womens Room	<4" PIPE FITTING	A	4.640E01	1	2	1	2	8	40.00	45
FH533	Mens	<4" PIPE FITTING	A	2.960E00	1	2	1	2	8	40.00	1
FH521	Office	ACOUSTICAL WALL TILE	A	0	1	2	1	2	8	40.00	0
FH522	Corridor I	CEILING TILE	A	0	1	2	1	2	8	40.00	0
FH522	Mens	CEILING TILE	A	0	1	2	1	2	8	40.00	0
FH522	Test Area	CEILING TILE	A	0	1	2	1	2	8	40.00	0
FH522	Womens	CEILING TILE	A	0	1	2	1	2	8	40.00	0
FH522	Work Area	CEILING TILE	A	0	1	2	1	2	8	40.00	0
FH523	Corridor I	ACOUSTICAL WALL TILE	A	0	1	2	1	2	8	40.00	0
FH523	Office II	ACOUSTICAL WALL TILE	A	0	1	2	1	2	8	40.00	0
FH524	Corridor I	ACOUSTICAL WALL TILE	A	0	1	2	1	2	8	40.00	0
FH525	Corridor I	ACOUSTICAL WALL TILE	A	0	1	2	1	2	8	40.00	0
FH526	Corridor I	CEILING TILE	A	0	1	2	1	2	8	40.00	0
FH526	Office II	CEILING TILE	A	0	1	2	1	2	8	40.00	0
FH526	Test Area	CEILING TILE	A	0	1	2	1	2	8	40.00	0
FH527	Test Area	ACOUSTICAL WALL TILE	A	0	1	2	1	2	8	40.00	0
FH528	Test Area	ACOUSTICAL WALL TILE	A	0	1	2	1	2	8	40.00	0
FH529	Mezz. Abv. Work Area	ACOUSTICAL WALL TILE	A	0	1	2	1	2	8	40.00	0
FH529	Mezz. Office	ACOUSTICAL WALL TILE	A	0	1	2	1	2	8	40.00	0
FH529	Test Area	ACOUSTICAL WALL TILE	A	0	1	2	1	2	8	40.00	0
FH529	Work Area	ACOUSTICAL WALL TILE	A	0	1	2	1	2	8	40.00	0
FH530	Work Area	CEILING TILE	A	0	1	2	1	2	8	40.00	0
FH531	Work Area	ACOUSTICAL WALL TILE	A	0	1	2	1	2	8	40.00	0
FH532	Mezz. Office	CEILING TILE	A	0	1	2	1	2	8	40.00	0
FH534	Power Room	<4" PIPE FITTING	A	0	1	2	1	2	8	40.00	0
FH536	Power Room	4-8" PIPE FITTING	A	0	1	2	1	2	8	40.00	0
FH537	Mezz. Office	4-8" PIPE FITTING	A	0	1	2	1	2	8	40.00	0
FH537	Power Room	4-8" PIPE FITTING	A	0	1	2	1	2	8	40.00	0

Priority Index Codes

A [=] Long Term Corrective Measure
 B [=] Review Management Special Considerations/Remarks
 C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
 2 [=] Occupant Accessibility
 3 [=] Material Condition
 4 [=] Level Of Activity
 5 [=] Number Of Assigned Occupants

TABLE 2704.4
(continued)

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2704, LAB.(TEST CHAMBER)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH537	Test Area	4-8" PIPE FITTING	A	0	1	2	1	2	8	40.00	0

Priority Index Codes

A [=] Long Term Corrective Measure
B [=] Review Management Special Considerations/Remarks
C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
2 [=] Occupant Accessibility
3 [=] Material Condition
4 [=] Level Of Activity
5 [=] Number Of Assigned Occupants

TABLE 2704.5

COST ESTIMATE* - BUILDING 2704, LAB. (TEST CHAMBER)

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6	AREA 7	AREA 8	AREA 9	AREA 10	AREA 11
Pipe Fittings (EA)												
<4"	70.30	-	0.5	0.3	0.4	-	-	-	-	-	1.0	-
4-8"	85.80	-	-	-	-	-	-	-	-	-	-	-
9-14"	127.00	-	-	-	-	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-	-	-	-
Pipe Runs (LF)												
<4"	26.50	-	-	-	-	-	-	-	-	-	-	-
4-8"	40.60	-	-	-	-	-	-	-	-	-	-	-
9-14"	23.80	-	-	-	-	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	2.7	-	-	4.7	1.5	2.3	0.7	25.8	0.4	-	5.0
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-
SUBTOTAL		2.7	0.5	0.3	5.1	1.5	2.3	0.7	25.8	0.4	1.0	5.0
Difficulty Allowance	-	-	-	0.4	2.4	-	-	-	-	-	-	2.5
SUBTOTAL		2.7	0.5	0.7	7.5	1.5	2.3	0.7	25.8	0.4	1.0	7.5
Decontamination Units		0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Mobilization		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
SUBTOTAL		3.7	1.4	1.6	8.4	2.4	3.2	1.6	26.7	1.3	1.9	8.4
Contingency @ 15.00%		0.5	0.2	0.2	1.3	0.4	0.5	0.2	4.0	0.2	0.3	1.3
SUBTOTAL		4.2	1.6	1.9	9.6	2.8	3.7	1.9	30.7	1.5	2.2	9.7
Design Fee @ 10.00%		0.4	0.2	0.2	1.0	0.3	0.4	0.2	3.1	0.2	0.2	1.0
SUBTOTAL		4.6	1.8	2.0	10.6	3.1	4.1	2.0	33.7	1.7	2.4	10.7
Air Monitoring @ 10.00%***		0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
TOTAL		5.3	2.5	2.7	11.3	3.8	4.8	2.7	34.4	2.4	3.1	11.4

* 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 Per Building

AREA 1: Corridor 1
 AREA 2: Mens
 AREA 3: Office
 AREA 4: Storage
 AREA 5: Womens
 AREA 11: Work Area

AREA 2: Janitor Closet
 AREA 4: Mezz. Office
 AREA 6: Power Room
 AREA 8: Test Area
 AREA 10: Womens Room

TABLE 2704.5
(continued)

COST ESTIMATE* - BUILDING 2704, LAB.(TEST CHAMBER)

DESCRIPTION	UNIT COST (\$)	TOTAL
Pipe Fittings (EA)		
<4"	70.30	2.2
4-8"	85.80	-
9-14"	127.00	-
>14"	216.00	-
Pipe Runs (LF)		
<4"	26.50	-
4-8"	30.50	-
9-14"	29.50	-
>14"	60.80	-
Sprayed/Troweled Ceilings (SF)	9.60	-
Floor Tile (SF)	5.60	43.2
Boilers/Tanks (SF)	37.90	-
Air Handling Equipment (SF)	20.00	-
Other		-
SUBTOTAL		45.4
Difficulty Allowance		5.3
SUBTOTAL		50.7
Decontamination Units		8.0
Mobilization		2.0
SUBTOTAL		60.7
Contingency @ 15.00%		9.1
SUBTOTAL		69.8
Design Fee @ 10.00%		7.0
SUBTOTAL		76.8
Air Monitoring @ 10.00%***		7.7
TOTAL		84.4

*Amounts Are In Thousands Of Dollars

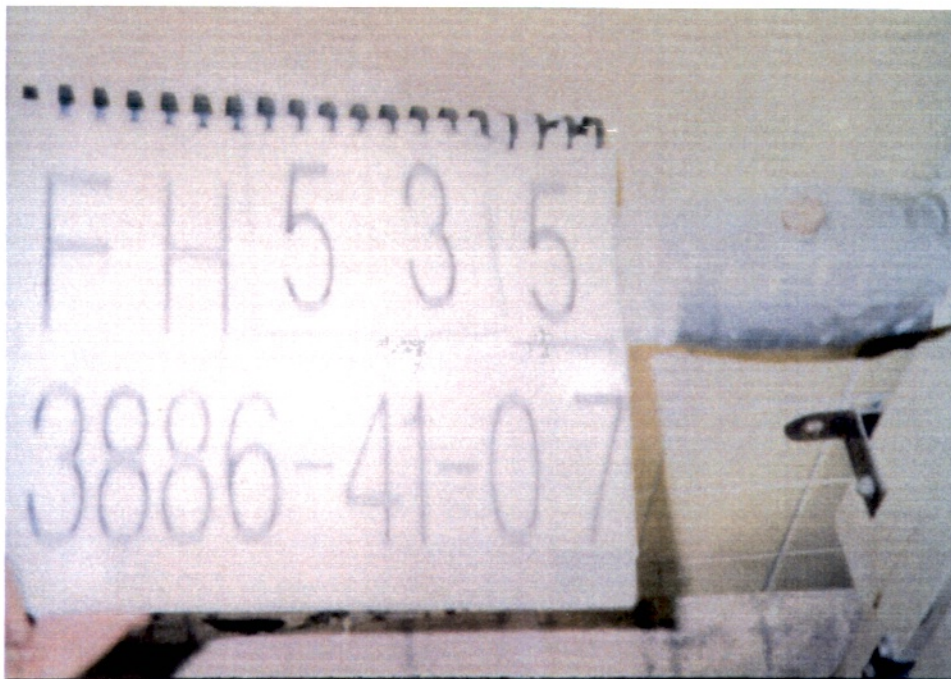
** Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

*** The Minimum Air Monitoring Fee is \$500.00 Per Building

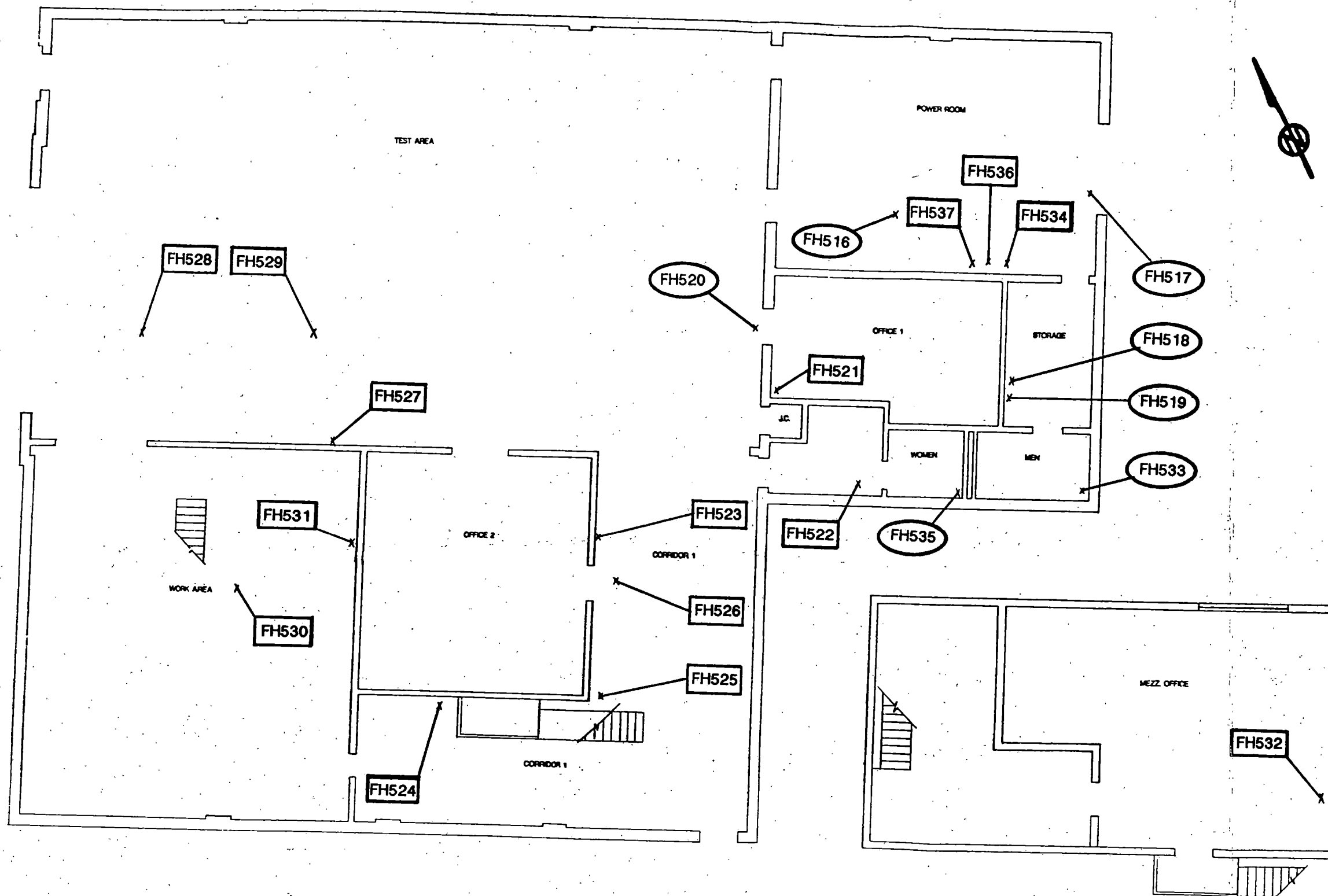
SECTION 2704.4
PHOTOGRAPHS



Bldg. 2704 - Test Chamber, Mechanical Room: 9 x 9" floor tiles tested positive. Samples FH516; FH517; FH519 and FH520, floor tiles (not shown) all tested positive.



Bldg. 2704 - Test Chamber: < 4" mud fitting (Ladies Room) sample FH535 tested positive. Sample FH533 (not shown) also tested positive.



FIRST FLOOR PLAN

SECOND FLOOR PLAN

BUILDING 2704

LEGEND

- FHnnn POSITIVE SAMPLE
- FHnnn NEGATIVE SAMPLE



9003

9003

FAMILY HOUSING

FAMILY HOUSING

9003.1 GENERAL

Building 9003 was surveyed by WESTON technicians on 28 January 1991.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze one sample of suspect material collected from the building. This sample was found to be asbestos-containing material (ACM). Table 9003.1 lists the analytical results for the bulk sample.

9003.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for the bulk sample from Building 9003 are presented in Table 9003.1. An area-by-area inventory of ACM is provided in Tables 9003.2 and 9003.3. "Other Asbestos-Containing Materials," listed in Table 9003.3, are materials that do not correspond to the standard caption categories listed in Table 9003.2. A prioritized listing of exposure assessments is presented in Table 9003.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9003.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9003.2 and 9003.5.

9003.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- The basement of Building 9003 qualifies for the Army Asbestos Deficiency Abatement Project.

TABLE 9003.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9003, FAMILY HOUSING

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH644	BASEMENT,BELOW CEILING	4-8" PIPE RUN	WHITE,OTH,4-8IN. RUN,HORIZONTAL	5	-	-	YES

^aAsbestos 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 9003.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 9003, FAMILY HOUSING

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROVELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
Basement	-	-	-	-	-	30	-	-	-	-	-	-	-
TOTALS	-	-	-	-	-	30	-	-	-	-	-	-	-

* Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

Table 9003.3

**Other Asbestos-Containing Material - Building 9003, Family Housing
Type Occupancy: Adults (Public)**

Area	Material Type	Quantity (Unit)
No Other Asbestos-Containing Material Found in this Building		

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

9003-5

TABLE 9003.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9003, FAMILY HOUSING

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH644	Basement	4-8" PIPE RUN	C	1.590E04	2	3	2	3	3	40.00	5

Priority Index Codes

A [=] Long Term Corrective Measure
 B [=] Review Management Special Considerations/Remarks
 C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
 2 [=] Occupant Accessibility
 3 [=] Material Condition
 4 [=] Level Of Activity
 5 [=] Number Of Assigned Occupants

TABLE 9003.5

COST ESTIMATE* - BUILDING 9003, FAMILY HOUSING

DESCRIPTION	UNIT COST (\$)	AREA 1	TOTAL
Pipe Fittings (EA)			
<4"	70.30	-	-
4-8"	85.80	-	-
9-14"	147.00	-	-
>14"	216.00	-	-
Pipe Runs (LF)			
<4"	26.50	-	-
4-8"	30.50	0.9	0.9
9-14"	72.50	-	-
>14"	60.80	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-
Floor Tile (SF)	5.60	-	-
Boilers/Tanks (SF)	37.90	-	-
Air Handling Equipment (SF)	20.00	-	-
Other		-	-
SUBTOTAL		0.9	0.9
Difficulty Allowance		-	-
SUBTOTAL		0.9	0.9
Decontamination Units		0.5	0.5
Mobilization		2.0	2.0
SUBTOTAL		3.4	3.4
Contingency @ 15.00%		0.5	0.5
SUBTOTAL		3.9	3.9
Design Fee @ 10.00%		0.4	0.4
SUBTOTAL		4.3	4.3
Air Monitoring @ 10.00%***		0.5	0.5
TOTAL		4.8	4.8

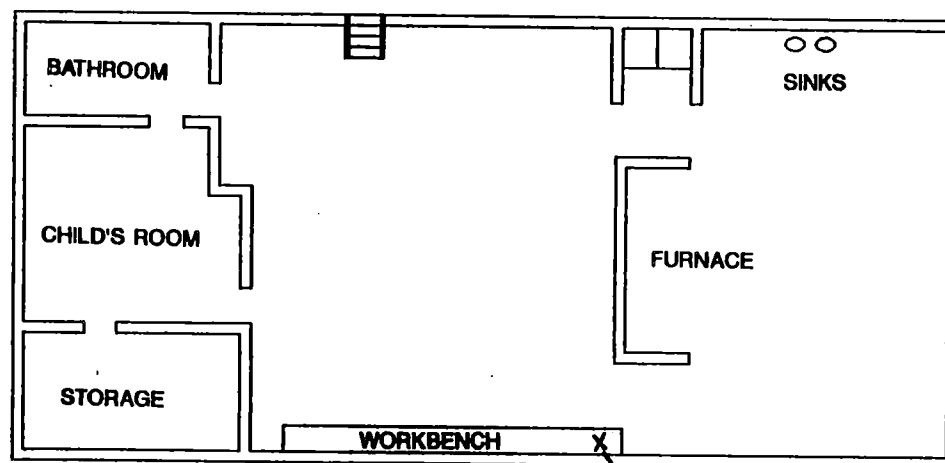
* Amounts Are In Thousands Of Dollars

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

*** The Minimum Air Monitoring Fee is \$500.00 Per Building

AREA 1: Basement

9003-8



BLDG. 9003
BASEMENT

FH644

LEGEND

 POSITIVE SAMPLE

 NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

9009

9009

STOREHOUSE (SERV-AIR)

STOREHOUSE (SERV-AIR)

9009.1 GENERAL

Building 9009 was surveyed by WESTON technicians on 19 January 1991.

The first three portions of this facility report summarize the results of this inspection. Photographs of some sample locations are provided in Section 9009.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 2 samples of suspect material collected from the building. Of these samples, both were found to be asbestos-containing materials (ACM). Table 9009.1 lists the analytical results for the bulk samples.

9009.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9009 are presented in Table 9009.1. An area-by-area inventory of ACM is provided in Tables 9009.2 and 9009.3. "Other Asbestos-Containing Materials," listed in Table 9009.3, are materials that do not correspond to the standard caption categories listed in Table 9009.2. A prioritized listing of exposure assessments is presented in Table 9009.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9009.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9009.2 and 9009.5.

9009.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- Asbestos-containing floor tile and air duct insulation should be labeled under the O&M Program.

TABLE 9009.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9009, STOREHOUSE(SERV-AIR)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH580	OFFICE,BELOW CEILING	FLOOR TILE	BROWN,OTH,9X9 FL TL,HORIZONTAL	2	-	-	NO
FH581	GARAGE AREA,BELOW CEILING	AIR HANDLING EQUIPMENT	BLACK,OTH,DUCT INSUL,HORIZONTAL	40	-	-	NO

^aAsbestos 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 9009.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 9009, STOREHOUSE (SERV-AIR)

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROMELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
Garage area	-	-	-	-	-	-	-	-	-	-	-	0.24	-
Office	-	-	-	-	-	-	-	-	-	0.36	-	-	-
TOTALS	-	-	-	-	-	-	-	-	-	0.36	-	0.24	-

* Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

Table 9009.3

**Other Asbestos-Containing Material - Building 9009, Serv-Air
Type Occupancy: Adults (Public)**

Area	Material Type	Quantity (Unit)
No Other Asbestos-Containing Material Found in this Building		

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

9009-5

TABLE 9009.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9009, STOREHOUSE(SERV-AIR)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH581	Garage area	AIR HANDLING EQUIPMENT	A	4.800E01	1	2	2	2	3	40.00	40

Priority Index Codes

A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability

2 [=] Occupant Accessibility

3 [=] Material Condition

4 [=] Level Of Activity

5 [=] Number Of Assigned Occupants

TABLE 9009.5

COST ESTIMATE* - BUILDING 9009, STOREHOUSE(SERV-AIR)

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	TOTAL
Pipe Fittings (EA)				
<4"	70.30	-	-	-
4-8"	85.80	-	-	-
9-14"	147.00	-	-	-
>14"	216.00	-	-	-
Pipe Runs (LF)				
<4"	26.50	-	-	-
4-8"	30.20	-	-	-
9-14"	42.20	-	-	-
>14"	60.80	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-
Floor Tile (SF)	5.60	-	2.0	2.0
Boilers/Tanks (SF)	37.90	-	-	-
Air Handling Equipment (SF)	20.00	4.8	-	4.8
Other		-	-	-
SUBTOTAL		4.8	2.0	6.8
Difficulty Allowance		2.4	-	2.4
SUBTOTAL		7.2	2.0	9.2
Decontamination Units Mobilization		1.5	1.5	3.0
		1.0	1.0	2.0
SUBTOTAL		9.7	4.5	14.2
Contingency @ 15.00%		1.5	0.7	2.1
SUBTOTAL		11.2	5.2	16.3
Design Fee @ 10.00%		1.1	0.5	1.6
SUBTOTAL		12.3	5.7	18.0
Air Monitoring @ 10.00%***		0.9	0.9	1.8
TOTAL		13.2	6.6	19.8

* 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 Per Building

AREA 1: Garage area

AREA 2: Office

SECTION 9009.4
PHOTOGRAPHS

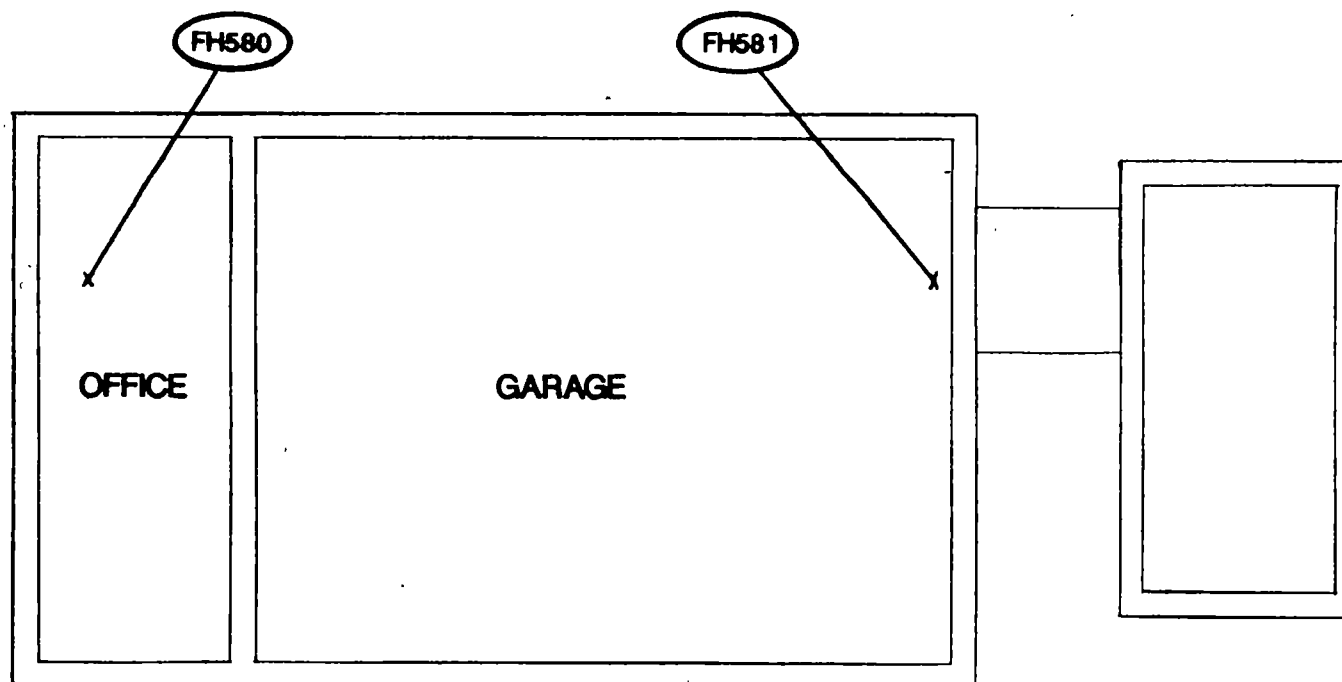


Bldg. 9009 - Serv-Air Garage/Shop: Expansion joing around metal duct, sample FH581 tested positive.



Bldg. 9009 - Serv-Air Garage/Shop: 9 x 9" floor tiles sample FH580 tested positive.

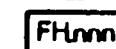
6-6006



BUILDING 9009

LEGEND

 POSITIVE SAMPLE

 NEGATIVE SAMPLE

9011

9011
WORKSHOP

9011

WORKSHOP

9011.1 GENERAL

Building 9011 was surveyed by WESTON technicians on 14 January and 15 January 1991.

The first three portions of this facility report summarize the results of this inspection. Photographs of some sample locations are provided in Section 9011.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 26 samples of suspect material collected from the building. Of these samples, 19 were found to be asbestos-containing materials (ACM). Table 9011.1 lists the analytical results for the bulk samples.

9011.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9011 are presented in Table 9011.1. An area-by-area inventory of ACM is provided in Tables 9011.2 and 9011.3. "Other Asbestos-Containing Materials," listed in Table 9011.3, are materials that do not correspond to the standard caption categories listed in Table 9011.2. A prioritized listing of exposure assessments is presented in Table 9011.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9011.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9011.2 and 9011.5.

9011.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- Asbestos-containing floor tile, pipe insulation, and fitting insulation should be labeled under the O&M Program.

TABLE 9011.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9011, WORKSHOP

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH540	STORAGE,BELOW CEILING	FLOOR TILE	RED,OTH,9X9 FL TL,HORIZONTAL	-	-	-	NO
FH541	STORAGE,BELOW CEILING	FLOOR TILE	TAN,OTH,1X1 FL TL,HORIZONTAL	5	-	-	YES
FH542	MENS,BELOW CEILING	CEILING TILE	WHITE,OTH,2X4 CL TL,HORIZONTAL	-	-	-	YES
FH543	ATTIC D,BELOW CEILING	<4" PIPE FITTING	WHITE,STM,<4IN. FIT,HORIZONTAL	20	-	-	YES
FH544	ATTIC D,BELOW CEILING	<4" PIPE RUN	WHITE,STM,<4IN. RUN,HORIZONTAL	5	-	-	YES
FH545	ATTIC D,BELOW CEILING	4-8" PIPE FITTING	WHITE,STM,4-8IN. FIT,HORIZONTAL	15	-	-	NO
FH546	ATTIC D,BELOW CEILING	4-8" PIPE RUN	WHITE,STM,4-8IN. RUN,HORIZONTAL	50	-	-	YES
FH547	ATTIC D,BELOW CEILING	<4" PIPE FITTING	WHITE,STM,<4IN. FIT,HORIZONTAL	20	-	-	NO
FH548	ATTIC D,BELOW CEILING	<4" PIPE RUN	WHITE,STM,<4IN. RUN,HORIZONTAL	50	-	-	YES
FH549	ATTIC D,BELOW CEILING	4-8" PIPE FITTING	WHITE,STM,4-8IN. FIT,HORIZONTAL	20	-	-	NO
FH550	ATTIC D,BELOW CEILING	4-8" PIPE RUN	WHITE,STM,4-8IN. RUN,HORIZONTAL	40	-	-	NO
FH551	CORRIDOR D,BELOW CEILING	FLOOR TILE	TAN,OTH,1X1 FL TL,HORIZONTAL	5	-	-	NO
FH552	CORRIDOR D,BELOW CEILING	FLOOR TILE	RED,OTH,9X9 FL TL,HORIZONTAL	2	-	-	NO
FH553	OFFICE 1C,BELOW CEILING	ACOUSTICAL WALL TILE	WHITE,OTH,1X1 PANEL,VERTICAL	-	-	-	YES
FH554	WOOD SHOP,BELOW CEILING	ACOUSTICAL WALL TILE	WHITE,OTH,1X1 PANEL,VERTICAL	-	-	-	YES
FH555	WOOD SHOP,BELOW CEILING	ACOUSTICAL WALL TILE	WHITE,OTH,1X1 WL TL,VERTICAL	-	-	-	YES
FH556	WOOD SHOP,BELOW CEILING	ACOUSTICAL WALL TILE	WHITE,OTH,1X1 WL TL,VERTICAL	-	-	-	YES
FH557	METAL SHOP,BELOW CEILING	FLOOR TILE	TAN,OTH,1X1 FL TL,HORIZONTAL	3	-	-	YES
FH558	METAL STORAGE,BELOW CEILING	FLOOR TILE	BLACK,OTH,9X9 FL TL,HORIZONTAL	7	-	-	YES
FH559	OFFICE 1A,BELOW CEILING	FLOOR TILE	BLACK,OTH,9X9 FL TL,HORIZONTAL	7	-	-	YES
FH560	MECH. RM.,BELOW CEILING	FLOOR TILE	BLACK,OTH,9X9 FL TL,HORIZONTAL	5	-	-	NO
FH561	MENS,BELOW CEILING	CEILING TILE	WHITE,OTH,2X4 CL TL,HORIZONTAL	-	-	-	YES
FH562	ATTIC A,BELOW CEILING	<4" PIPE FITTING	WHITE,STM,<4IN. FIT,HORIZONTAL	15	-	-	NO
FH563	ATTIC A,BELOW CEILING	<4" PIPE RUN	WHITE,STM,<4IN. RUN,HORIZONTAL	60	-	-	YES
FH564	ATTIC A,BELOW CEILING	4-8" PIPE FITTING	WHITE,STM,4-8IN. FIT,HORIZONTAL	15	-	-	NO

^a 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 9011.1
(continued)

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9011, WORKSHOP

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH565	ATTIC A,BELOW CEILING	4-8" PIPE RUN	WHITE,STM,4-8IN. RUN,HORIZONTAL	40	-	-	YES

^aAsbestos 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 9011.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 9011, WORKSHOP

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"	9-14"	>14"					
Attic A	136	12	-	-	260	930	-	-	-	-	-	-	-
Attic B	140	11	-	-	238	930	-	-	-	-	-	-	-
Attic C	130	11	-	-	259	920	-	-	-	-	-	-	-
Attic D	139	11	-	-	243	923	-	-	-	-	-	-	-
Closet	-	-	-	-	-	-	-	-	-	0.08	-	-	-
Corridor A	-	-	-	-	-	-	-	-	-	0.98	-	-	-
Corridor D	-	-	-	-	-	-	-	-	-	1.30	-	-	-
Mech. Rm.	-	-	-	-	-	-	-	-	-	0.09	-	-	-
Metal Shop	-	-	-	-	-	-	-	-	-	10.60	-	-	-
Metal Storage	-	-	-	-	-	-	-	-	-	1.80	-	-	-
Office 10A	-	-	-	-	-	-	-	-	-	0.19	-	-	-
Office 11A	-	-	-	-	-	-	-	-	-	0.43	-	-	-
Office 12A	-	-	-	-	-	-	-	-	-	0.48	-	-	-
Office 1A	-	-	-	-	-	-	-	-	-	0.14	-	-	-
Office 1B	-	-	-	-	-	-	-	-	-	0.50	-	-	-
Office 1C	-	-	-	-	-	-	-	-	-	0.09	-	-	-
Office 2A	-	-	-	-	-	-	-	-	-	0.31	-	-	-
Office 3A	-	-	-	-	-	-	-	-	-	0.72	-	-	-
Office 4A	-	-	-	-	-	-	-	-	-	0.29	-	-	-
Office 5A	-	-	-	-	-	-	-	-	-	0.60	-	-	-
Office 6A	-	-	-	-	-	-	-	-	-	0.46	-	-	-
Office 7A	-	-	-	-	-	-	-	-	-	0.46	-	-	-
Office 8A	-	-	-	-	-	-	-	-	-	0.77	-	-	-
Office 9A	-	-	-	-	-	-	-	-	-	0.22	-	-	-
Parts and Tools	-	-	-	-	-	-	-	-	-	1.23	-	-	-
Proto Fab Branch	-	-	-	-	-	-	-	-	-	0.33	-	-	-
Storage	-	-	-	-	-	-	-	-	-	1.48	-	-	-
Supply 157	-	-	-	-	-	-	-	-	-	0.87	-	-	-
Vestibule	-	-	-	-	-	-	-	-	-	0.06	-	-	-
Wood Shop	4	-	-	-	4	-	-	-	-	6.10	-	-	-
TOTALS	549	45	-	-	1004	3703	-	-	-	30.57	-	-	-

* Other Material Present In Various Units Of Measure

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

Table 9011.3

Other Asbestos-Containing Material - Building 9011, Workshop
Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
No Other Asbestos-Containing Material Found in this Building		

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

9011-6

TABLE 9011.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9011, WORKSHOP

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH548	Wood Shop	<4" PIPE RUN	A	6.380E01	1	2	1	2	11	40.00	50
FH547	Wood Shop	<4" PIPE FITTING	A	2.310E01	1	2	1	2	11	40.00	20
FH546	Attic B	4-8" PIPE RUN	A	1.450E-1	3	1	1	1	1	1.00	50
FH546	Attic C	4-8" PIPE RUN	A	1.450E-1	3	1	1	1	1	1.00	50
FH546	Attic D	4-8" PIPE RUN	A	1.450E-1	3	1	1	1	1	1.00	50
FH548	Attic D	<4" PIPE RUN	A	1.450E-1	3	1	1	1	1	1.00	50
FH550	Attic D	4-8" PIPE RUN	A	1.450E-1	3	1	1	1	1	1.00	40
FH563	Attic A	<4" PIPE RUN	A	1.450E-1	3	1	1	1	1	1.00	60
FH565	Attic A	4-8" PIPE RUN	A	1.450E-1	3	1	1	1	1	1.00	40
FH543	Attic B	<4" PIPE FITTING	A	5.250E-2	3	1	1	1	1	1.00	20
FH543	Attic C	<4" PIPE FITTING	A	5.250E-2	3	1	1	1	1	1.00	20
FH543	Attic D	<4" PIPE FITTING	A	5.250E-2	3	1	1	1	1	1.00	20
FH545	Attic B	4-8" PIPE FITTING	A	5.250E-2	3	1	1	1	1	1.00	15
FH545	Attic C	4-8" PIPE FITTING	A	5.250E-2	3	1	1	1	1	1.00	15
FH545	Attic D	4-8" PIPE FITTING	A	5.250E-2	3	1	1	1	1	1.00	15
FH547	Attic D	<4" PIPE FITTING	A	5.250E-2	3	1	1	1	1	1.00	20
FH549	Attic D	4-8" PIPE FITTING	A	5.250E-2	3	1	1	1	1	1.00	20
FH562	Attic A	<4" PIPE FITTING	A	5.250E-2	3	1	1	1	1	1.00	15
FH564	Attic A	4-8" PIPE FITTING	A	5.250E-2	3	1	1	1	1	1.00	15
FH544	Attic B	<4" PIPE RUN	A	9.250E-3	3	1	1	1	1	1.00	5
FH544	Attic C	<4" PIPE RUN	A	9.250E-3	3	1	1	1	1	1.00	5
FH544	Attic D	<4" PIPE RUN	A	9.250E-3	3	1	1	1	1	1.00	5
FH542	Ladies	CEILING TILE	A	0	1	2	1	2	4	40.00	0
FH542	Mens	CEILING TILE	A	0	1	2	1	2	11	40.00	0
FH542	Mens	CEILING TILE	A	0	1	2	1	2	4	40.00	0
FH553	Mech. Rm.	ACOUSTICAL WALL TILE	A	0	1	1	1	1	0	0.00	0
FH553	Office 1B	ACOUSTICAL WALL TILE	A	0	1	2	1	2	5	40.00	0
FH553	Office 1C	ACOUSTICAL WALL TILE	A	0	1	2	1	2	11	40.00	0
FH554	Mech. Rm.	ACOUSTICAL WALL TILE	A	0	1	1	1	1	0	0.00	0
FH554	Wood Shop	ACOUSTICAL WALL TILE	A	0	1	2	1	2	11	40.00	0

Priority Index Codes

A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability

2 [=] Occupant Accessibility

3 [=] Material Condition

4 [=] Level Of Activity

5 [=] Number Of Assigned Occupants

TABLE 9011.4
(continued)

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9011, WORKSHOP

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH555	Office 1B	ACOUSTICAL WALL TILE	A	0	1	2	1	2	5	40.00	0
FH555	Wood Shop	ACOUSTICAL WALL TILE	A	0	1	2	1	2	11	40.00	0
FH556	Wood Shop	ACOUSTICAL WALL TILE	A	0	1	2	1	2	11	40.00	0
FH561	Mens	CEILING TILE	A	0	1	1	1	1	0	0.00	0
FH561	Mens Rm.	CEILING TILE	A	0	1	1	1	1	0	0.00	0

Priority Index Codes

A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability

2 [=] Occupant Accessibility

3 [=] Material Condition

4 [=] Level Of Activity

5 [=] Number Of Assigned Occupants

TABLE 9011.5

COST ESTIMATE* - BUILDING 9011, WORKSHOP

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6	AREA 7	AREA 8	AREA 9	AREA 10	AREA 11
Pipe Fittings (EA)												
<4"	70.30	9.6	8.8	8.1	8.8	-	-	-	-	-	-	-
4-8"	85.80	1.0	0.9	0.9	0.9	-	-	-	-	-	-	-
9-14"	147.00	-	-	-	-	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-	-	-	-
Pipe Runs (LF)												
<4"	26.50	6.9	6.3	6.9	6.4	-	-	-	-	-	-	-
4-8"	30.50	28.4	28.4	28.1	28.2	-	-	-	-	-	-	-
9-14"	42.50	-	-	-	-	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	-	-	-	-	0.4	5.5	7.3	0.5	59.4	10.1	1.1
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-
SUBTOTAL		45.8	45.5	45.0	45.3	0.4	5.5	7.3	0.5	59.4	10.1	1.1
Difficulty Allowance		22.9	-	17.9	-	-	-	-	-	29.7	2.5	-
SUBTOTAL		68.8	45.5	62.9	45.3	0.4	5.5	7.3	0.5	89.0	12.6	1.1
Decontamination Units Mobilization		0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
SUBTOTAL		69.3	45.9	63.4	45.8	0.9	5.9	7.8	1.0	89.5	13.1	1.6
Contingency @ 15.00%		10.4	6.9	9.5	6.9	0.1	0.9	1.2	0.1	13.4	2.0	0.2
SUBTOTAL		79.6	52.8	72.9	52.7	1.1	6.8	8.9	1.1	103.0	15.0	1.8
Design Fee @ 10.00%		8.0	5.3	7.3	5.3	0.1	0.7	0.9	0.1	10.3	1.5	0.2
SUBTOTAL		87.6	58.1	80.2	57.9	1.2	7.5	9.8	1.2	113.2	16.5	2.0
Air Monitoring @ 10.00%***		1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
TOTAL		89.5	60.0	82.1	59.8	3.0	9.4	11.7	3.1	115.1	18.4	3.8

* 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 Per Building

AREA 1: Attic A
 AREA 3: Attic C
 AREA 5: Closet
 AREA 7: Corridor D
 AREA 9: Metal Shop
 AREA 11: Office 10A

AREA 2: Attic B
 AREA 4: Attic D
 AREA 6: Corridor A
 AREA 8: Mech. Rm.
 AREA 10: Metal Storage

TABLE 9011.5
(continued)

COST ESTIMATE* - BUILDING 9011, WORKSHOP

DESCRIPTION	UNIT COST (\$)	AREA 12	AREA 13	AREA 14	AREA 15	AREA 16	AREA 17	AREA 18	AREA 19	AREA 20	AREA 21	AREA 22
Pipe Fittings (EA)												
<4"	70.30	-	-	-	-	-	-	-	-	-	-	-
4-8"	85.80	-	-	-	-	-	-	-	-	-	-	-
9-14"	147.00	-	-	-	-	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-	-	-	-
Pipe Runs (LF)												
<4"	26.50	-	-	-	-	-	-	-	-	-	-	-
4-8"	30.50	-	-	-	-	-	-	-	-	-	-	-
9-14"	42.50	-	-	-	-	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	2.4	2.7	0.8	2.8	0.5	1.7	4.0	1.6	3.4	2.6	2.6
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-
SUBTOTAL		2.4	2.7	0.8	2.8	0.5	1.7	4.0	1.6	3.4	2.6	2.6
Difficulty Allowance		-	-	-	1.4	-	-	-	-	-	-	-
SUBTOTAL		2.4	2.7	0.8	4.2	0.5	1.7	4.0	1.6	3.4	2.6	2.6
Decontamination Units Mobilization		**0.4	**0.4	**0.4	**0.4	**0.4	**0.4	**0.4	**0.4	**0.4	**0.4	**0.4
SUBTOTAL		2.9	3.2	1.3	4.7	1.0	2.2	4.5	2.1	3.8	3.0	3.0
Contingency @ 15.00%		0.4	0.5	0.2	0.7	0.1	0.3	0.7	0.3	0.6	0.5	0.5
SUBTOTAL		3.3	3.6	1.5	5.4	1.1	2.6	5.2	2.4	4.4	3.5	3.5
Design Fee @ 10.00%		0.3	0.4	0.1	0.5	0.1	0.3	0.5	0.2	0.4	0.3	0.3
SUBTOTAL		3.7	4.0	1.6	5.9	1.2	2.8	5.7	2.7	4.9	3.8	3.8
Air Monitoring @ 10.00%***		1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
TOTAL		5.5	5.9	3.5	7.8	3.1	4.7	7.6	4.5	6.7	5.7	5.7

*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 Per Building

AREA 12: Office 11A
AREA 14: Office 1A
AREA 16: Office 1C
AREA 18: Office 3A
AREA 20: Office 5A
AREA 22: Office 7A

AREA 13: Office 12A
AREA 15: Office 1B
AREA 17: Office 2A
AREA 19: Office 4A
AREA 21: Office 6A

TABLE 9011.5
(continued)
COST ESTIMATE* - BUILDING 9011, WORKSHOP

DESCRIPTION	UNIT COST (\$)	AREA 23	AREA 24	AREA 25	AREA 26	AREA 27	AREA 28	AREA 29	AREA 30	TOTAL
Pipe Fittings (EA)										
<4"	70.30	-	-	-	-	-	-	-	0.3	38.6
4-8"	85.80	-	-	-	-	-	-	-	-	3.9
9-14"	147.00	-	-	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-	-
Pipe Runs (LF)										
<4"	26.50	-	-	-	-	-	-	-	0.1	26.6
4-8"	30.20	-	-	-	-	-	-	-	-	112.9
9-14"	42.50	-	-	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	4.3	1.2	6.9	1.8	8.3	4.9	0.4	34.2	171.2
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-
SUBTOTAL		4.3	1.2	6.9	1.8	8.3	4.9	0.4	34.5	353.2
Difficulty Allowance		-	-	-	0.9	-	-	-	-	75.4
SUBTOTAL		4.3	1.2	6.9	2.8	8.3	4.9	0.4	34.5	428.6
Decontamination Units Mobilization		0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	12.5
		**	**	**	**	**	**	**	**	2.0
SUBTOTAL		4.8	1.7	7.4	3.3	8.8	5.4	0.8	35.0	443.1
Contingency @ 15.00%		0.7	0.3	1.1	0.5	1.3	0.8	0.1	5.3	66.5
SUBTOTAL		5.5	1.9	8.5	3.7	10.1	6.2	1.0	40.3	509.5
Design Fee @ 10.00%		0.6	0.2	0.8	0.4	1.0	0.6	**	4.0	51.0
SUBTOTAL		6.1	2.1	9.3	4.1	11.1	6.8	1.1	44.3	560.5
Air Monitoring @ 10.00%***		1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	56.1
TOTAL		7.9	4.0	11.2	6.0	13.0	8.6	2.9	46.2	616.6

* 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 Per Building

AREA 23: Office 8A
AREA 25: Parts and Tools
AREA 27: Storage
AREA 29: Vestibule

AREA 24: Office 9A
AREA 26: Proto Fab Branch
AREA 28: Supply 157
AREA 30: Wood Shop

SECTION 9011.4

PHOTOGRAPHS



Bldg. 9011A - Attic Area: < 4" steam fitting FH562 tested positive. Sample FH563 < 4" pipe run (not shown) also tested positive.



Bldg. 9011A - Mechanical Room: 9 x 9" black floor tiles FH560 tested positive, Office 1A; 9 x 9" black floor tiles FH559 also tested positive. Metal shop storage 9 x 9" black floor tiles FH558 also tested positive.



Bldg. 9011A - Attic Area: 4 - 8" steam pipe insulation sample FH565 tested positive.



Bldg. 9011A - Attic Area: 4 - 8" mud fitting sample FH564 tested positive.



Bldg. 9011D - Attic: < 4" mud fitting sample FH543 tested positive; samples FH545 (not shown) 4 - 8" mud fitting tested positive; sample FH547 < 4" mud fitting tested positive (not shown); also sample FH549 (not shown), 4 - 8" mud fitting tested positive.

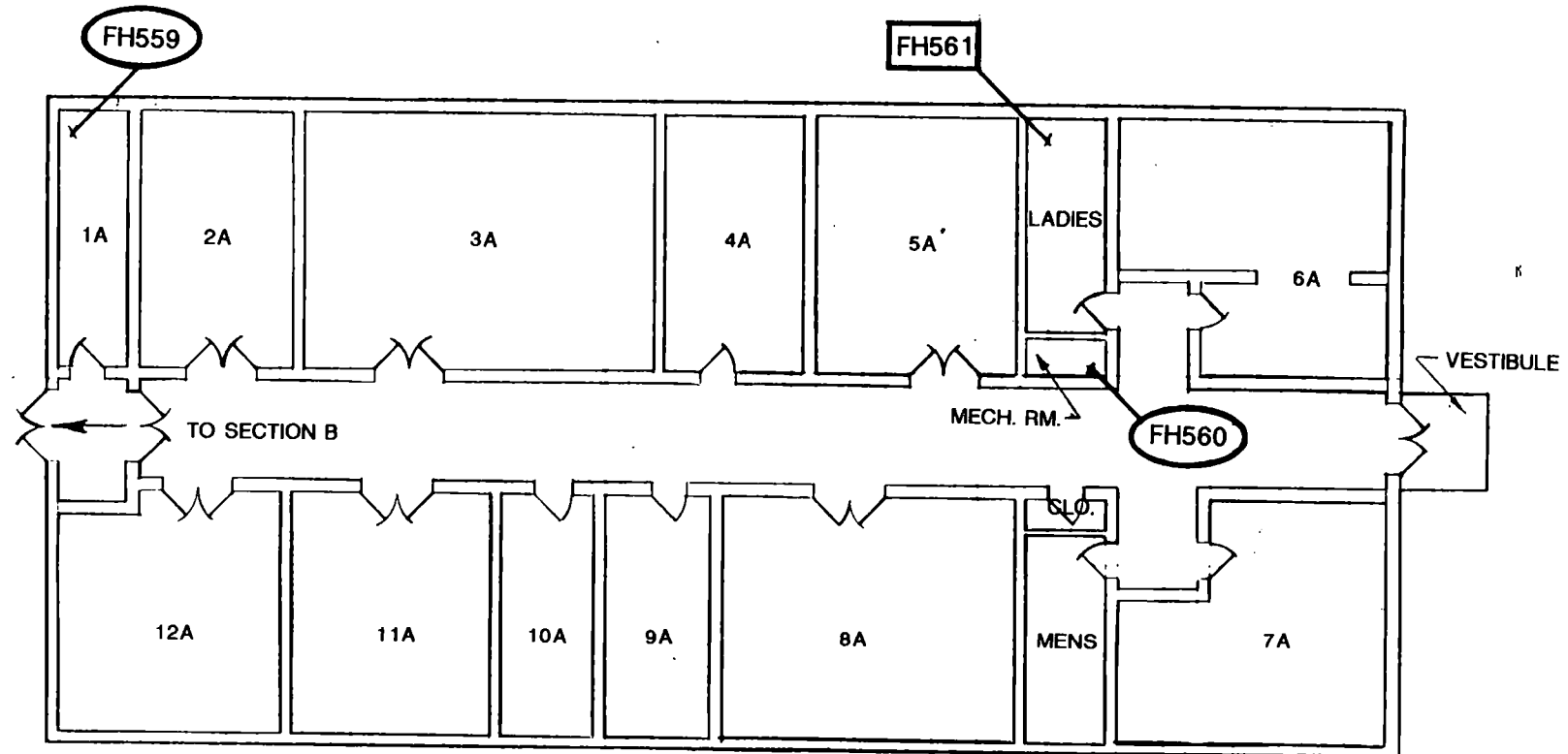


Bldg. 9011D - Attic: < 4" pipe run sample FH544 tested positive, also testing positive and not shown are samples FH546 4 - 8" pipe run; sample FH548 < 4" pipe run; sample FH550 4 - 8" pipe run.



Bldg. 9011D - Corridor D: Sample FH551 12 x 12" tan floor tiles tested positive; sample FH552 (not shown) 9 x 9" red floor tiles also tested positive. Following floor tile samples tested positive (not shown) are: FH557, 12 x 12" tan; FH558, 9 x 9" black, FH559 and FH560 also 9 x 9" black.

91-1106



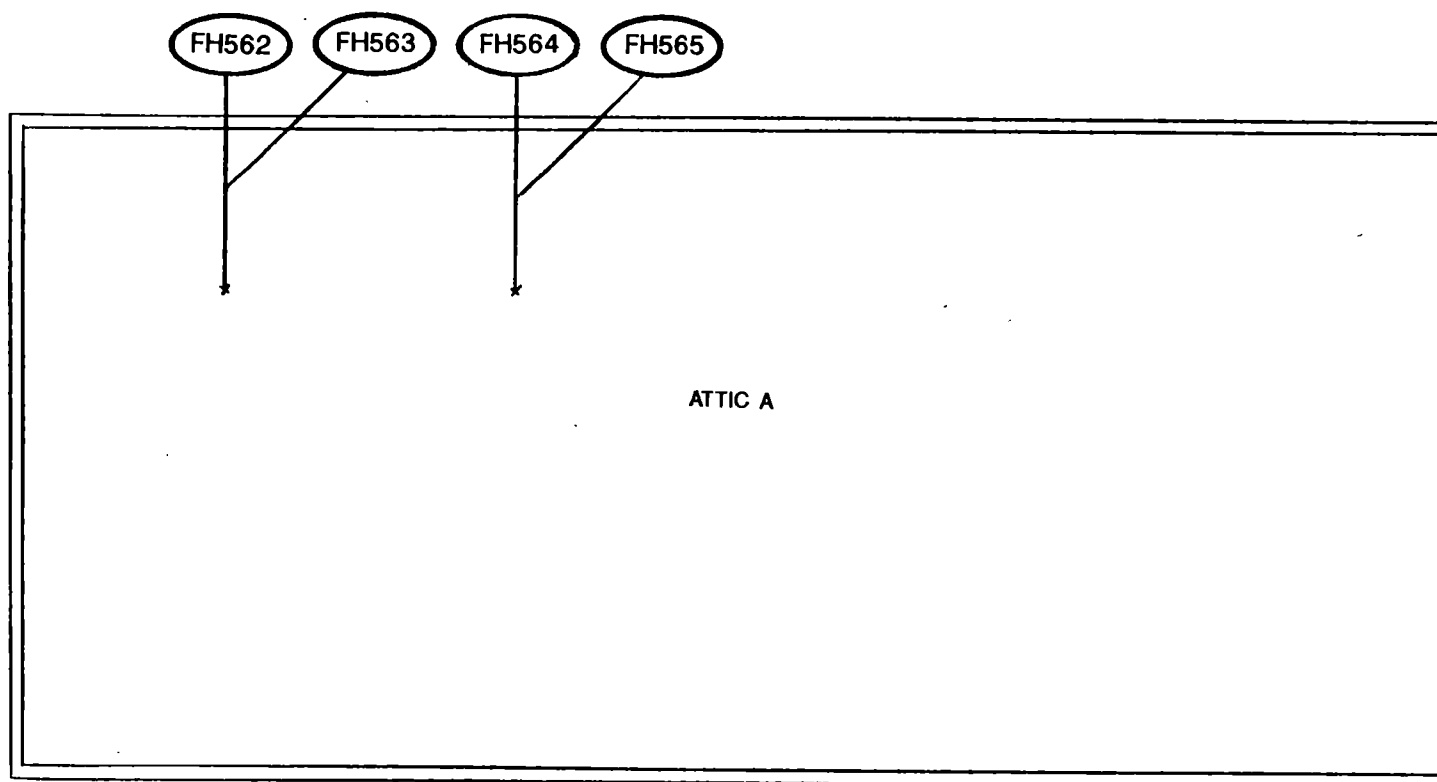
BLDG. 9011
SECTION A
GROUND FLOOR PLAN

LEGEND

FHnnn POSITIVE SAMPLE

FHnnn NEGATIVE SAMPLE

9011-17

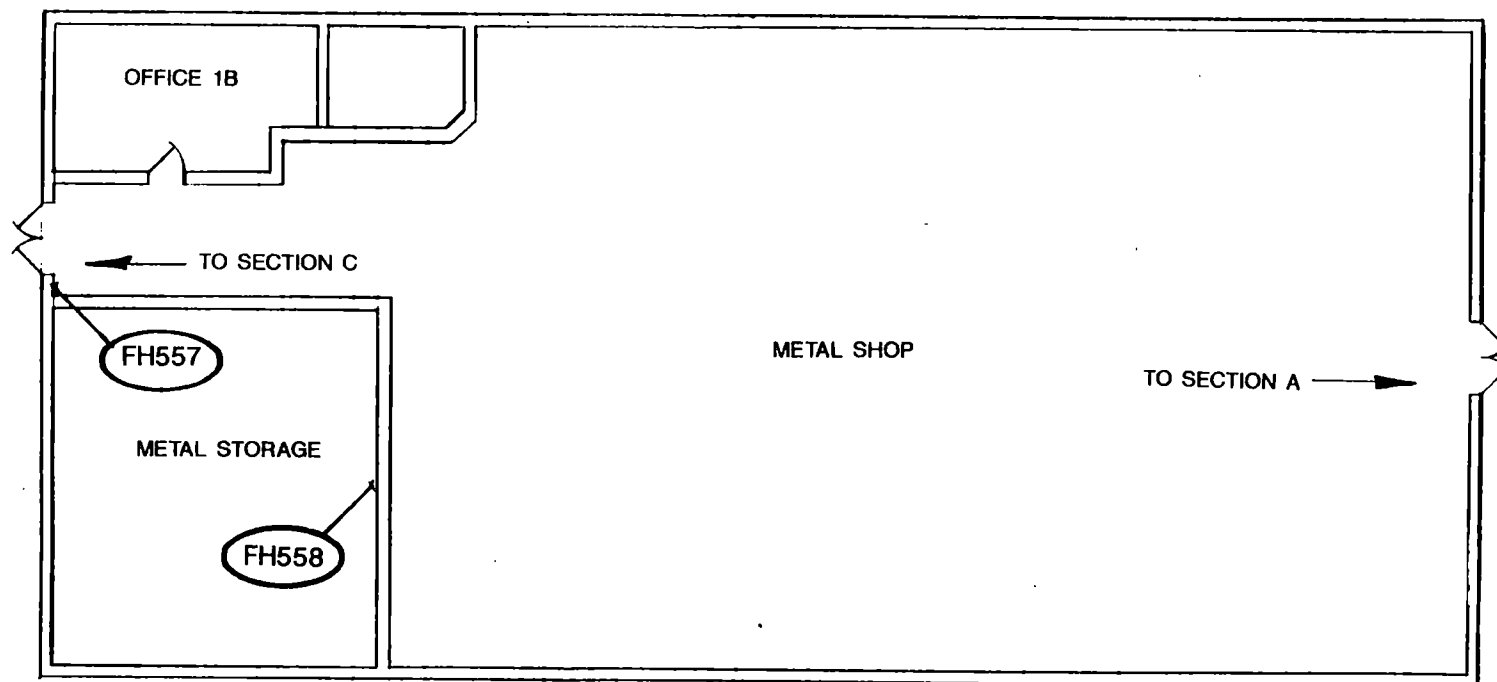


BLDG. 9011
SECTION A
ATTIC PLAN

LEGEND

-  FHnnn POSITIVE SAMPLE
 FHnnn NEGATIVE SAMPLE

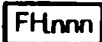
9011-18



BLDG. 9011
SECTION B
GROUND FLOOR PLAN

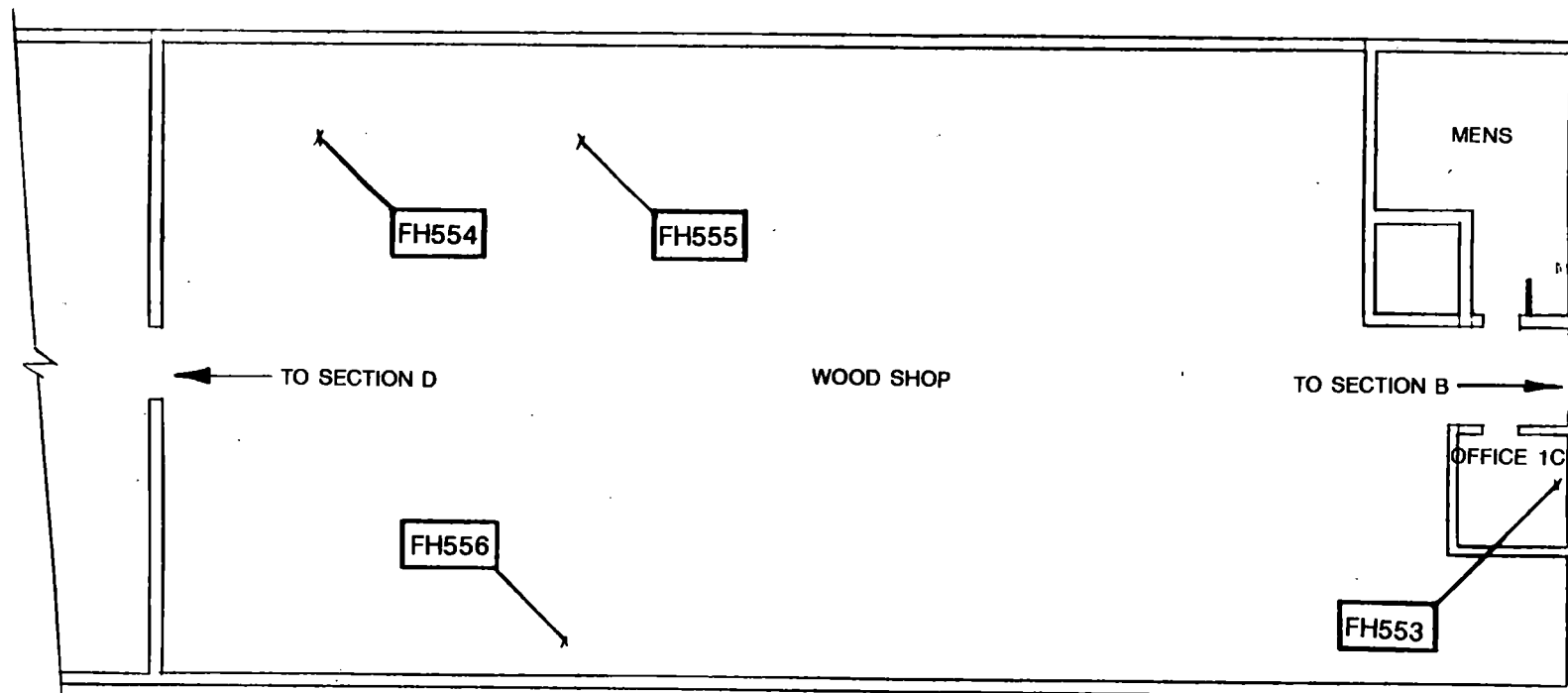
LEGEND

 POSITIVE SAMPLE

 NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

61-1106



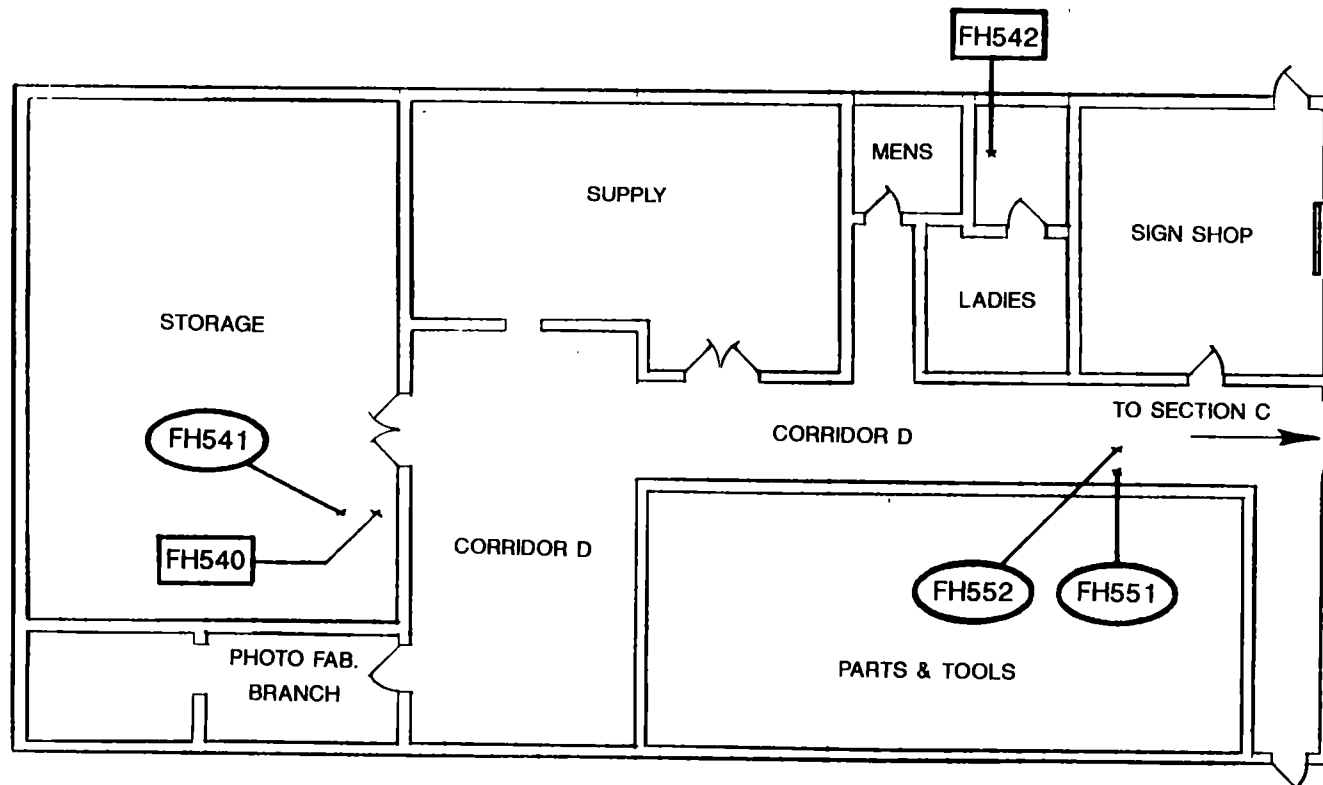
BLDG. 9011
SECTION C
GROUND FLOOR PLAN

LEGEND

- (FHnnn) POSITIVE SAMPLE
[FHnnn] NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

9011-20



BLDG. 9011
SECTION D
GROUND FLOOR PLAN

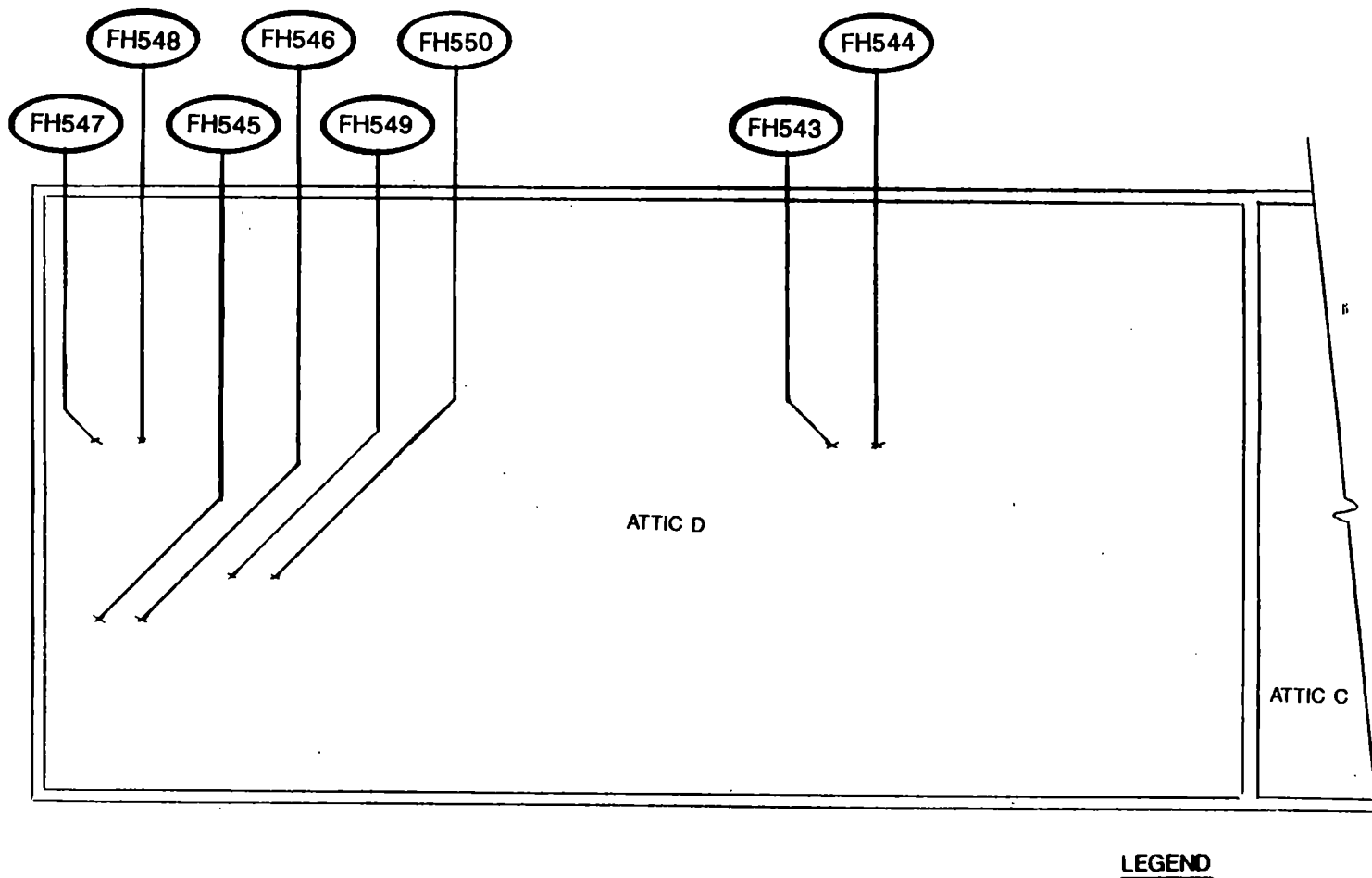
LEGEND

 POSITIVE SAMPLE

 NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

9011-21



BLDG. 9011
SECTION D
ATTIC PLAN

LEGEND

 POSITIVE SAMPLE

 NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

9015

9015

LABORATORY (EW/RSTA)

LABORATORY (EW/RSTA)

9015.1 GENERAL

Building 9015, Unit 27 was surveyed by WESTON technicians on 16 January 1991.

The first three portions of this facility report summarize the results of this inspection. Photographs of some sample locations are provided in Section 9015.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 6 samples of suspect material collected from the building. Of these samples, one was found to be asbestos-containing material (ACM). Table 9015.1 lists the analytical results for the bulk samples.

9015.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9015 are presented in Table 9015.1. An area-by-area inventory of ACM is provided in Tables 9015.2 and 9015.3. "Other Asbestos-Containing Materials," listed in Table 9015.3, are materials that do not correspond to the standard caption categories listed in Table 9015.2. A prioritized listing of exposure assessments is presented in Table 9015.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9015.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9015.2 and 9015.5.

9015.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- Asbestos-containing floor tile should be labeled under the O&M Program.

TABLE 9015.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9015, LABORATORY (EW/RSTA)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH566	ROOM 102,BELOW CEILING	FLOOR TILE	TAN,OTH,1X1 FL TL,HORIZONTAL	-	-	-	NO
FH567	ROOM 103,BELOW CEILING	CEILING TILE	WHITE,OTH,2X4 CL TL,HORIZONTAL	-	-	-	NO
FH568	BAY AREA,BELOW CEILING	ACOUSTICAL WALL TILE	BLUE,OTH,1X1 WL TL,VERTICAL	-	-	-	YES
FH569	MENS,BELOW CEILING	ACOUSTICAL WALL TILE	WHITE,OTH,1X1 WL TL,VERTICAL	-	-	-	YES
FH570	HALL,BELOW CEILING	FLOOR TILE	BROWN,OTH,9X9 FL TL,HORIZONTAL	3	-	-	NO
FH571	HALL,BELOW CEILING	CEILING TILE	WHITE,OTH,2X4 CL TL,HORIZONTAL	-	-	-	NO

^a 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 9015.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 9015, LABORATORY (EW/RSTA)

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROVELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
Hall	-	-	-	-	-	-	-	-	-	0.02	-	-	-
TOTALS	-	-	-	-	-	-	-	-	-	0.02	-	-	-

* Other Material Present In Various Units Of Measure

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

Table 9015.3

**Other Asbestos-Containing Material - Building 9015, EW/RSTA
Type Occupancy: Adults (Public)**

Area	Material Type	Quantity (Unit)
No Other Asbestos-Containing Material Found in this Building		

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

9015-5

TABLE 9015.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9015, LABORATORY (EW/RSTA)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH567	Bay Area	CEILING TILE	A	0	1	2	1	2	10	40.00	0
FH567	Corridor	CEILING TILE	A	0	1	2	1	2	10	40.00	0
FH567	Room 101	CEILING TILE	A	0	1	2	1	2	10	40.00	0
FH567	Room 102	CEILING TILE	A	0	1	2	1	2	10	40.00	0
FH567	Room 103	CEILING TILE	A	0	1	2	1	2	10	40.00	0
FH568	Bay Area	ACOUSTICAL WALL TILE	A	0	1	2	1	2	10	40.00	0
FH568	Ladies	ACOUSTICAL WALL TILE	A	0	1	2	1	2	10	40.00	0
FH569	Mens	ACOUSTICAL WALL TILE	A	0	1	2	1	2	10	40.00	0
FH571	Hall	CEILING TILE	A	0	1	2	1	2	10	40.00	0
FH571	Room 201	CEILING TILE	A	0	1	2	1	2	10	40.00	0
FH571	Room 202	CEILING TILE	A	0	1	2	1	2	10	40.00	0
FH571	Room 203	CEILING TILE	A	0	1	2	1	2	10	40.00	0
FH571	Room 204	CEILING TILE	A	0	1	2	1	2	10	40.00	0
FH571	Room 205	CEILING TILE	A	0	1	2	1	2	10	40.00	0
FH571	Room 206	CEILING TILE	A	0	1	2	1	2	10	40.00	0

Priority Index Codes

A [=] Long Term Corrective Measure
 B [=] Review Management Special Considerations/Remarks
 C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
 2 [=] Occupant Accessibility
 3 [=] Material Condition
 4 [=] Level Of Activity
 5 [=] Number Of Assigned Occupants

TABLE 9015.5

COST ESTIMATE* - BUILDING 9015, LABORATORY (EW/RSTA)

DESCRIPTION	UNIT COST (\$)	AREA 1	TOTAL
Pipe Fittings (EA)			
<4"	70.30	-	-
4-8"	85.80	-	-
9-14"	147.00	-	-
>14"	216.00	-	-
Pipe Runs (LF)			
<4"	26.50	-	-
4-8"	30.20	-	-
9-14"	42.50	-	-
>14"	60.80	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-
Floor Tile (SF)	5.60	**	**
Boilers/Tanks (SF)	37.90	-	-
Air Handling Equipment (SF)	20.00	-	-
Other		-	-
SUBTOTAL		**	**
Difficulty Allowance		-	-
SUBTOTAL		**	**
Decontamination Units		3.0	3.0
Mobilization		2.0	2.0
SUBTOTAL		5.1	5.1
Contingency @ 15.00%		0.8	0.8
SUBTOTAL		5.9	5.9
Design Fee @ 10.00%		0.6	0.6
SUBTOTAL		6.4	6.4
Air Monitoring @ 10.00%***		0.6	0.6
TOTAL		7.1	7.1

* Amounts Are In Thousands Of Dollars

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

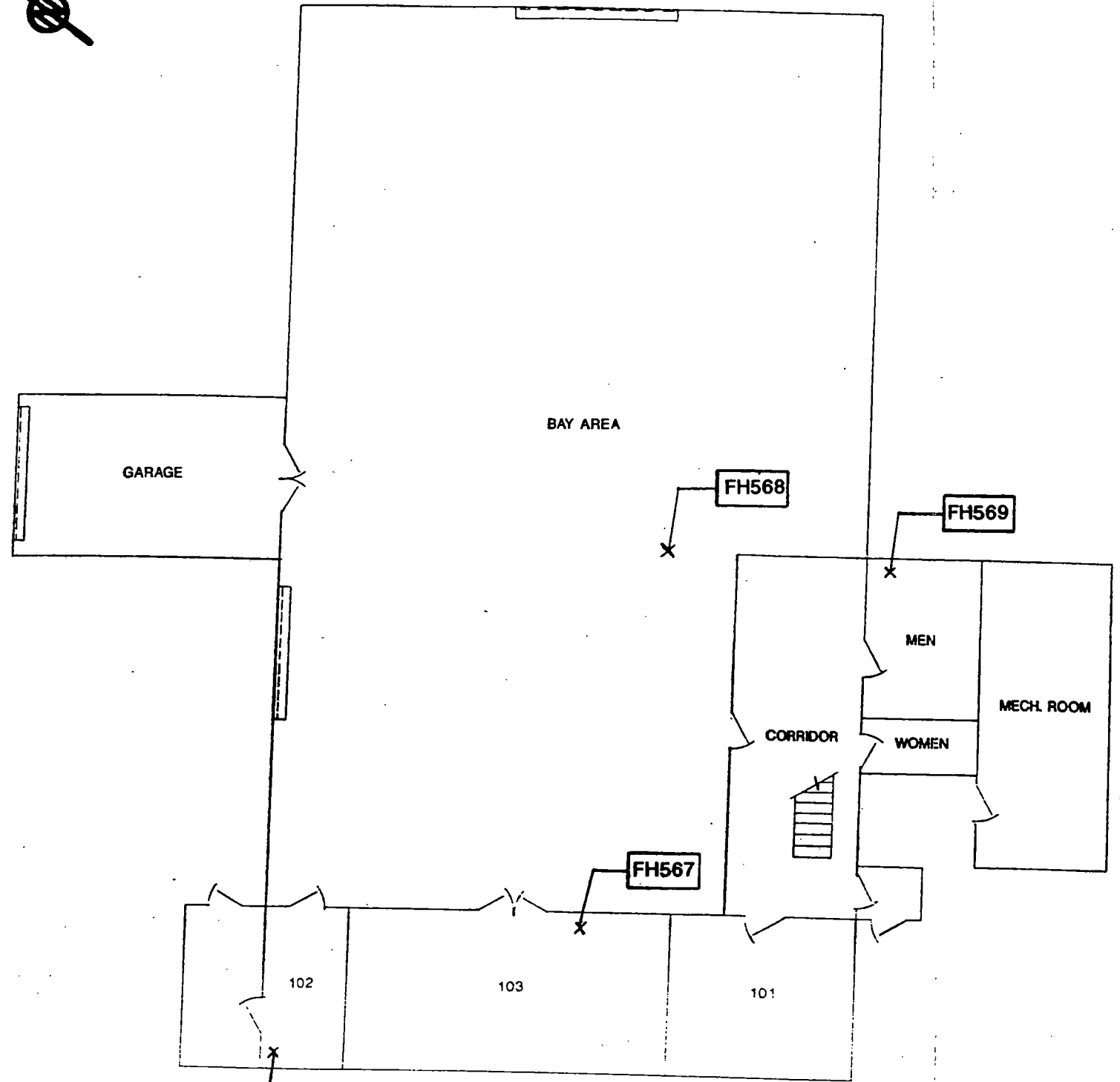
*** The Minimum Air Monitoring Fee is \$500.00 Per Building

AREA 1: Hall

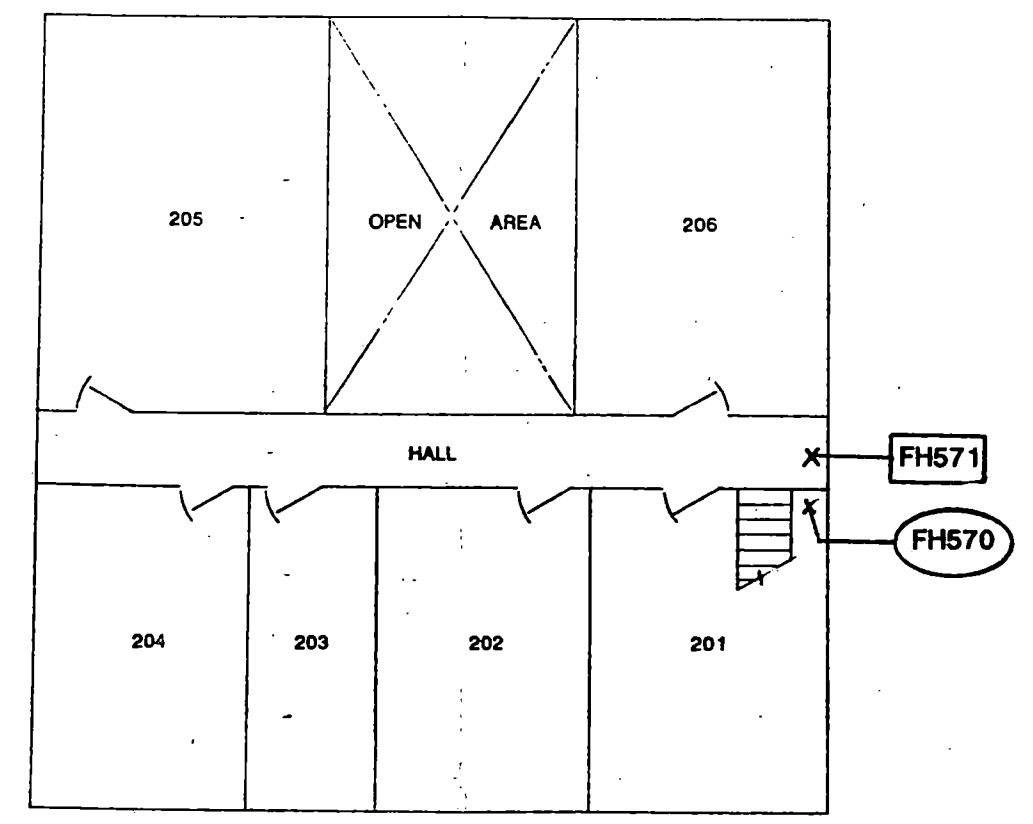
SECTION 9015.4
PHOTOGRAPHS



Bldg. 9015 - EW RSTA: 9 x 9" brown floor tiles FH570 tested positive.



FIRST FLOOR PLAN



SECOND FLOOR PLAN

LEGEND

- POSITIVE SAMPLE
- NEGATIVE SAMPLE



9019

9019

LABORATORY (RADAR DIV.)

LABORATORY (RADAR DIV.)

9019.1 GENERAL

Building 9019 was surveyed by WESTON technicians on 23 January 1991.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 4 samples of suspect material collected from the building. Of these samples, all 4 were found to be asbestos-containing materials (ACM). Table 9019.1 lists the analytical results for the bulk samples.

9019.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9019 are presented in Table 9019.1. An area-by-area inventory of ACM is provided in Tables 9019.2 and 9019.3. "Other Asbestos-Containing Materials," listed in Table 9019.3, are materials that do not correspond to the standard caption categories listed in Table 9019.2. A prioritized listing of exposure assessments is presented in Table 9019.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9019.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9019.2 and 9019.5.

9019.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- Asbestos-containing floor tile and air duct insulation should be labeled under the O&M Program.
- Review management special considerations/remarks.

TABLE 9019.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9019, LABORATORY (RADAR)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH630	FIRST FLOOR,BELOW CEILING	FLOOR TILE	BLUE,OTH,9X9 FL TL,HORIZONTAL	10	-	-	YES
FH631	FIRST FLOOR,BELOW CEILING	FLOOR TILE	BLUE,OTH,9X9 FL TL,HORIZONTAL	12	-	-	YES
FH632	FIRST FLOOR,BELOW CEILING	AIR HANDLING EQUIPMENT	WHITE,OTH,DUCT INSUL,HORIZONTAL	65	-	-	YES
FH633	FIRST FLOOR,BELOW CEILING	AIR HANDLING EQUIPMENT	WHITE,OTH,DUCT INSUL,HORIZONTAL	75	-	-	NO

^a 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 9019.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 9019, LABORATORY (RADAR)

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"	9-14"	>14"					
First Floor	-	-	-	-	-	-	-	-	-	1.94	-	0.86	-
TOTALS	-	-	-	-	-	-	-	-	-	1.94	-	0.86	-

* Other Material Present In Various Units Of Measure

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

Table 9019.3

**Other Asbestos-Containing Material - Building 9019, Radar Division
Type Occupancy: Adults (Public)**

Area	Material Type	Quantity (Unit)
No Other Asbestos-Containing Material Found in this Building		

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

9019-5

TABLE 9019.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9019, LABORATORY (RADAR)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH632	First Floor	AIR HANDLING EQUIPMENT	B	9.200E02	2	2	2	1	2	20.00	65
FH633	First Floor	AIR HANDLING EQUIPMENT	B	9.200E02	2	2	2	1	2	20.00	75

Priority Index Codes

A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability

2 [=] Occupant Accessibility

3 [=] Material Condition

4 [=] Level Of Activity

5 [=] Number Of Assigned Occupants

TABLE 9019.5

COST ESTIMATE* - BUILDING 9019, LABORATORY (RADAR)

DESCRIPTION	UNIT COST (\$)	AREA 1	TOTAL
Pipe Fittings (EA)			
<4"	70.30	-	-
4-8"	85.80	-	-
9-14"	147.00	-	-
>14"	216.00	-	-
Pipe Runs (LF)			
<4"	26.50	-	-
4-8"	26.50	-	-
9-14"	26.50	-	-
>14"	60.80	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-
Floor Tile (SF)	5.60	10.8	10.8
Boilers/Tanks (SF)	37.90	-	-
Air Handling Equipment (SF)	20.00	17.2	17.2
Other		-	-
SUBTOTAL		28.0	28.0
Difficulty Allowance		8.6	8.6
SUBTOTAL		36.6	36.6
Decontamination Units		3.0	3.0
Mobilization		2.0	2.0
SUBTOTAL		41.6	41.6
Contingency @ 15.00%		6.2	6.2
SUBTOTAL		47.9	47.9
Design Fee @ 10.00%		4.8	4.8
SUBTOTAL		52.6	52.6
Air Monitoring @ 10.00%***		5.3	5.3
TOTAL		57.9	57.9

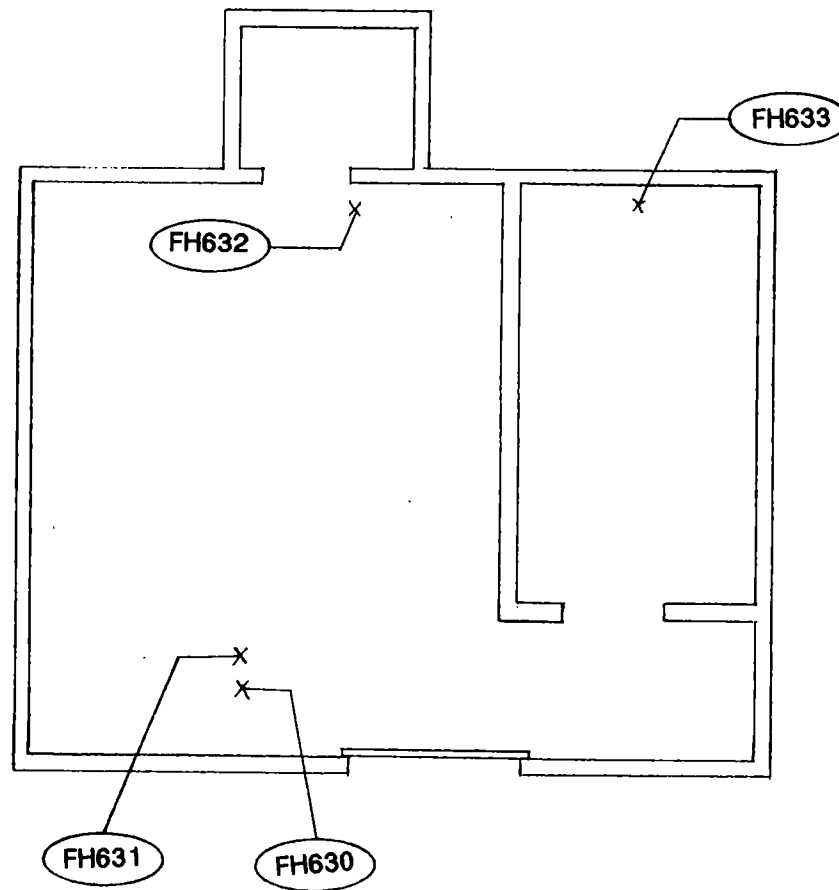
*Amounts Are In Thousands Of Dollars

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

***The Minimum Air Monitoring Fee is \$500.00 Per Building

AREA 1: First Floor

8-6106
9019-8



BLDG. 9019

LEGEND

 FHnnn POSITIVE SAMPLE

 FHnnn NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

9023

9023

ADMINISTRATION (ESA)

9023

ADMINISTRATION (ESA)

9023.1 GENERAL

Building 9023 was surveyed by WESTON technicians on 16 January 1991.

The first three portions of this facility report summarize the results of this inspection. Photographs of some sample locations are provided in Section 9023.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 3 samples of suspect material collected from the building. Of these samples, all 3 were found to be asbestos-containing materials (ACM). Table 9023.1 lists the analytical results for the bulk samples.

9023.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9023 are presented in Table 9023.1. An area-by-area inventory of ACM is provided in Tables 9023.2 and 9023.3. "Other Asbestos-Containing Materials," listed in Table 9023.3, are materials that do not correspond to the standard caption categories listed in Table 9023.2. A prioritized listing of exposure assessments is presented in Table 9023.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9023.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9023.2 and 9023.5.

9023.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- The mechanical room, metal shop, and the men's room in Building 9023 qualify for the Army Asbestos Deficiency Abatement Project.
- Asbestos-containing floor tile should be labeled under the O&M Program.

TABLE 9023.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9023, ADMINISTRATION(ESA)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH572	WORK METAL SHOP,BELOW CEILING	FLOOR TILE	TAN,OTH,1X1 FL TL,HORIZONTAL	2	-	-	NO
FH573	SECOND FLOOR,BELOW CEILING	FLOOR TILE	TAN,OTH,1X1 FL TL,HORIZONTAL	3	-	-	NO
FH574	MECH. ROOM,BELOW CEILING	AIR HANDLING EQUIPMENT	WHITE,OTH,DUCT INSUL,HORIZONTAL	45	-	-	NO

^aAsbestos 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 9023.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 9023, ADMINISTRATION (ESA)

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"	9-14"	>14"					
Mech. Room	-	-	-	-	-	-	-	-	-	-	-	0.02	-
Mens	-	-	-	-	-	-	-	-	-	0.11	-	0.01	-
Metal Shop	-	-	-	-	-	-	-	-	-	-	-	1.10	-
Second Floor	-	-	-	-	-	-	-	-	-	0.63	-	-	-
Work Metal Shop	-	-	-	-	-	-	-	-	-	2.00	-	-	-
TOTALS	-	-	-	-	-	-	-	-	-	2.74	-	1.13	-

* Other Material Present In Various Units Of Measure

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

Table 9023.3

Other Asbestos-Containing Material - Building 9023, ESA
Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
No Other Asbestos-Containing Material Found in this Building		

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

9023-5

TABLE 9023.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9023, ADMINISTRATION (ESA)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH574	Mech. Room	AIR HANDLING EQUIPMENT	C	1.980E03	2	2	1	1	6	40.00	45
FH574	Mens	AIR HANDLING EQUIPMENT	C	1.980E03	2	2	1	1	6	40.00	45
FH574	Metal Shop	AIR HANDLING EQUIPMENT	C	1.980E03	2	2	1	1	6	40.00	45

Priority Index Codes

A [=] Long Term Corrective Measure

B [=] Review Management Special Considerations/Remarks

C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability

2 [=] Occupant Accessibility

3 [=] Material Condition

4 [=] Level Of Activity

5 [=] Number Of Assigned Occupants

TABLE 9023.5

COST ESTIMATE* - BUILDING 9023, ADMINISTRATION (ESA)

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	TOTAL
Pipe Fittings (EA)							
<4"	70.30	-	-	-	-	-	-
4-8"	85.80	-	-	-	-	-	-
8-14"	147.00	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-
Pipe Runs (LF)							
<4"	26.50	-	-	-	-	-	-
4-8"	50.20	-	-	-	-	-	-
8-14"	79.20	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-
Floor Tile (SF)	5.60	-	0.6	-	3.5	11.2	15.3
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	0.4	0.2	22.0	-	-	22.6
Other		-	-	-	-	-	-
SUBTOTAL		0.4	0.8	22.0	3.5	11.2	38.0
Difficulty Allowance		0.4	0.5	22.0	-	-	22.9
SUBTOTAL		0.8	1.3	44.0	3.5	11.2	60.9
Decontamination Units Mobilization		0.7	0.7	0.7	0.7	0.7	3.5
		0.4	0.4	0.4	0.4	0.4	2.0
SUBTOTAL		1.9	2.4	45.1	4.6	12.3	66.4
Contingency @ 15.00%		0.3	0.4	6.8	0.7	1.8	10.0
SUBTOTAL		2.2	2.8	51.9	5.3	14.1	76.3
Design Fee @ 10.00%		0.2	0.3	5.2	0.5	1.4	7.6
SUBTOTAL		2.4	3.1	57.1	5.9	15.6	83.9
Air Monitoring @ 10.00%***		1.7	1.7	1.7	1.7	1.7	8.4
TOTAL		4.1	4.7	58.7	7.5	17.2	92.3

*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 Per Building

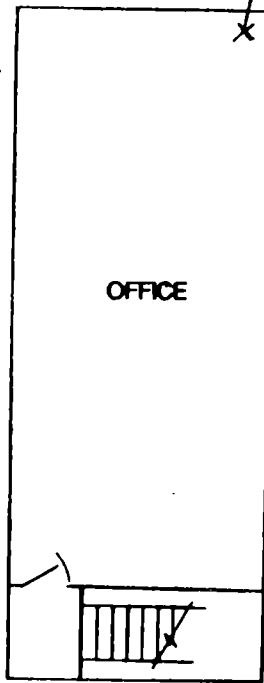
AREA 1: Mech. Room
 AREA 2: Metal Shop
 AREA 3: Work Metal Shop

AREA 2: Mens
 AREA 4: Second Floor

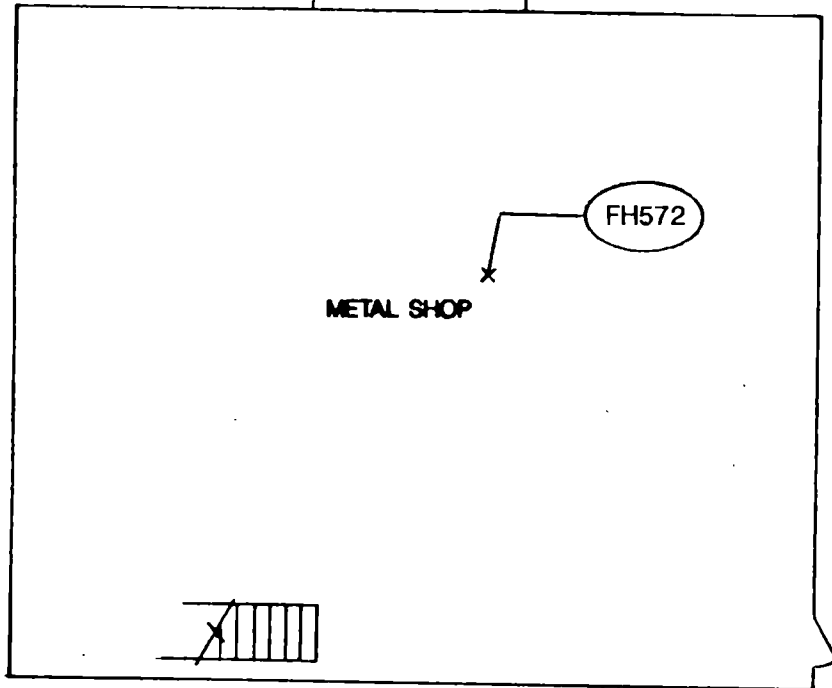
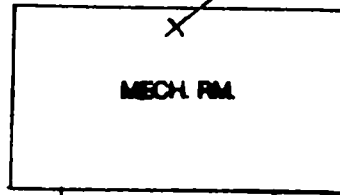
SECTION 9023.4
PHOTOGRAPHS



Bldg. 9023 - Metal Shop: Duct insulation sample FH574 tested positive; also sample FH572, 12 x 12" tan floor tiles in shop area tested positive. Sample FH573, 12 x 12" tan floor tiles upstairs offices (FH572 and FH573 not shown).



SECOND FLOOR PLAN
BUILDING 9023



FIRST FLOOR PLAN

LEGEND

- FHnnn POSITIVE SAMPLE
- FHnnn NEGATIVE SAMPLE

9031

9031

FIREHOUSE

FIREHOUSE

9031.1 GENERAL

Building 9031 was surveyed by WESTON technicians on 17 January 1991.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 5 samples of suspect material collected from the building. Of these samples, 3 were found to be asbestos-containing materials (ACM). Table 9031.1 lists the analytical results for the bulk samples.

9031.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9031 are presented in Table 9031.1. An area-by-area inventory of ACM is provided in Tables 9031.2 and 9031.3. "Other Asbestos-Containing Materials," listed in Table 9031.3, are materials that do not correspond to the standard caption categories listed in Table 9031.2. A prioritized listing of exposure assessments is presented in Table 9031.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9031.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9031.2 and 9031.5.

9031.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- Asbestos-containing floor tile and transite siding should be labeled under the O&M Program.

TABLE 9031.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9031, FIREHOUSE

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH582	LIVING QUARTERS,BELOW CEILING	FLOOR TILE	GRAY,OTH,1X1 FL TL,HORIZONTAL	-	-	-	NO
FH583	LIVING QUARTERS,BELOW CEILING	CEILING TILE	WHITE,OTH,2X2 CL TL,HORIZONTAL	-	-	-	NO
FH584	LIVING QUARTERS,BELOW CEILING	EXTERIOR SIDING	GRAY,OTH,TRANSITE,HORIZONTAL	40	-	-	NO
FH585	LIVING QUARTERS,BELOW CEILING	FLOOR TILE	RED,OTH,9X9 FL TL,HORIZONTAL	5	-	-	NO
FH586	LIVING QUARTERS,BELOW CEILING	FLOOR TILE	GRAY,OTH,1X1 FL TL,HORIZONTAL	5	-	-	NO

^a 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 9031.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 9031, FIREHOUSE

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROVELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
Living Quarters	-	-	-	-	-	-	-	-	-	0.70	-	-	*
TOTALS	-	-	-	-	-	-	-	-	-	0.70	-	-	*

* Other Material Present In Various Units Of Measure

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

Table 9031.3

**Other Asbestos-Containing Material - Building 9031, Firehouse
Type Occupancy: Adults (Public)**

Area	Material Type	Quantity (Unit)
(Outside) Living Quarters	Exterior Siding	0.030 (MSF)

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

9031-5

TABLE 9031.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9031, FIREHOUSE

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH584	Living Quarters	EXTERIOR SIDING	A	1.080E-1	1	1	1	2	6	40.00	40
FH583	Living Quarters	CEILING TILE	A	0	1	1	1	2	6	40.00	0

Priority Index Codes

A [=] Long Term Corrective Measure
 B [=] Review Management Special Considerations/Remarks
 C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
 2 [=] Occupant Accessibility
 3 [=] Material Condition
 4 [=] Level Of Activity
 5 [=] Number Of Assigned Occupants

TABLE 9031.5

COST ESTIMATE* - BUILDING 9031, FIREHOUSE

DESCRIPTION	UNIT COST (\$)	AREA 1	TOTAL
Pipe Fittings (EA)			
<4"	70.30	-	-
4-8"	85.80	-	-
9-14"	147.00	-	-
>14"	216.00	-	-
Pipe Runs (LF)			
<4"	26.50	-	-
4-8"	30.20	-	-
9-14"	42.50	-	-
>14"	60.80	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-
Floor Tile (SF)	5.60	3.9	3.9
Boilers/Tanks (SF)	37.90	-	-
Air Handling Equipment (SF)	20.00	-	-
Other		0.3	0.3
SUBTOTAL		4.3	4.3
Difficulty Allowance		-	-
SUBTOTAL		4.3	4.3
Decontamination Units Mobilization		3.0 2.0	3.0 2.0
SUBTOTAL		9.3	9.3
Contingency @ 15.00%		1.4	1.4
SUBTOTAL		10.7	10.7
Design Fee @ 10.00%		1.1	1.1
SUBTOTAL		11.7	11.7
Air Monitoring @ 10.00%***		1.2	1.2
TOTAL		12.9	12.9

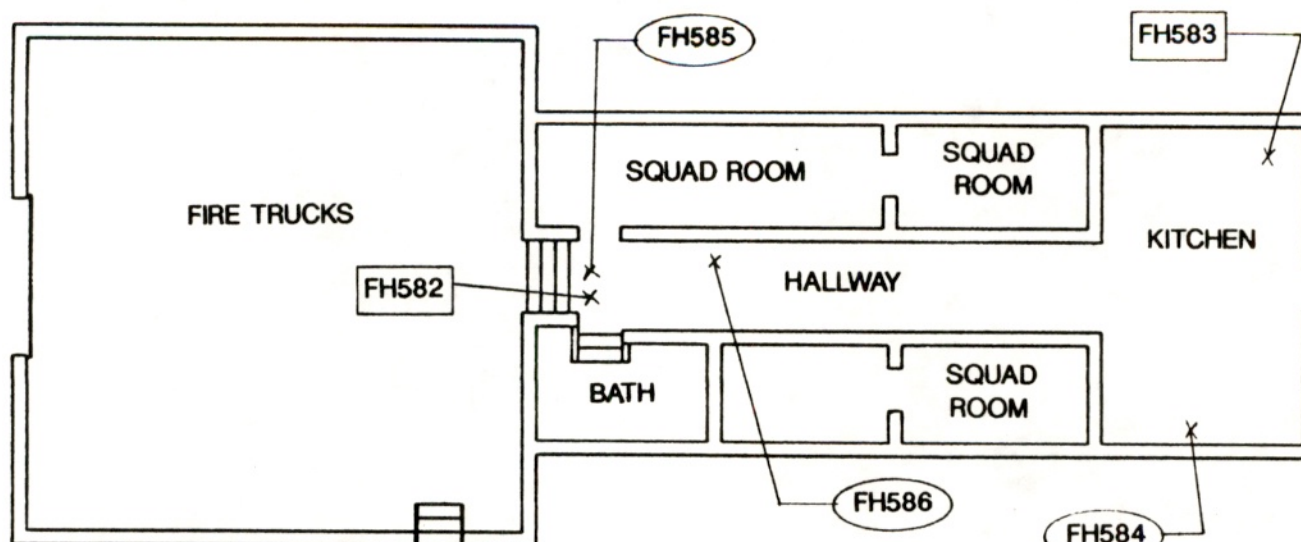
*Amounts Are In Thousands Of Dollars

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

***The Minimum Air Monitoring Fee is \$500.00 Per Building

AREA 1: Living Quarters

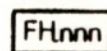
9031-8



BUILDING 9031

LEGEND

 FHnnn POSITIVE SAMPLE

 FHnnn NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

9041

9041

SIGNAL BUILDING

9041

SIGNAL BUILDING

9041.1 GENERAL

Building 9041 was surveyed by WESTON technicians on 18 January 1991.

The first three portions of this facility report summarize the results of this inspection. Photographs of some sample locations are provided in Section 9041.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 16 samples of suspect material collected from the building. Of these samples, 14 were found to be asbestos-containing materials (ACM). Table 9041.1 lists the analytical results for the bulk samples.

9041.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9041 are presented in Table 9041.1. An area-by-area inventory of ACM is provided in Tables 9041.2 and 9041.3. "Other Asbestos-Containing Materials," listed in Table 9041.3, are materials that do not correspond to the standard caption categories listed in Table 9041.2. A prioritized listing of exposure assessments is presented in Table 9041.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9041.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9041.2 and 9041.5.

9041.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- Asbestos-containing floor tile, pipe insulation, and fitting insulation should be labeled under the O&M Program.

TABLE 9041.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9041, SIGNAL BUILDING

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH609	BASEMENT MECH. AREA,BELOW CEILING	<4" PIPE FITTING	WHITE,STM,<4IN. FIT	45	-	-	NO
FH610	BASEMENT MECH. AREA,BELOW CEILING	<4" PIPE RUN	WHITE,STM,<4IN. RUN	10	-	-	NO
FH611	BASEMENT MECH. AREA,BELOW CEILING	4-8" PIPE FITTING	WHITE,STM,<4IN. FIT	45	-	-	NO
FH612	BASEMENT MECH. AREA,BELOW CEILING	4-8" PIPE RUN	WHITE,STM,<4IN. RUN	40	-	-	NO
FH613	BASEMENT,BELOW CEILING	<4" PIPE FITTING	WHITE,STM,<4IN. FIT	45	-	-	NO
FH614	BASEMENT,BELOW CEILING	<4" PIPE RUN	WHITE,STM,<4IN. RUN	10	-	-	NO
FH615	BASEMENT,BELOW CEILING	4-8" PIPE FITTING	WHITE,STM,<4IN. FIT	40	-	-	NO
FH616	BASEMENT,BELOW CEILING	4-8" PIPE RUN	WHITE,STM,4-8IN. RUN	40	-	-	NO
FH617	BASEMENT,BELOW CEILING	<4" PIPE FITTING	WHITE,STM,<4IN. FIT	30	-	-	NO
FH618	BASEMENT,BELOW CEILING	<4" PIPE RUN	WHITE,STM,<4IN. RUN	10	-	-	NO
FH619	BASEMENT,BELOW CEILING	4-8" PIPE FITTING	WHITE,STM,4-8IN. FIT	40	-	-	NO
FH620	BASEMENT,BELOW CEILING	4-8" PIPE RUN	WHITE,STM,4-8IN. RUN	40	-	-	NO
FH621	BASEMENT,BELOW CEILING	ACOUSTICAL WALL TILE	WHITE,OTH,1X1 WL TL	-	-	-	YES
FH622	BASEMENT,BELOW CEILING	DUPLICATE SAMPLE	WHITE,OTH,1X1 WL TL	-	-	-	YES
FH623	BASEMENT,BELOW CEILING	FLOOR TILE	TAN,OTH,1X1 FL TL	1	-	-	NO
FH624	BASEMENT,BELOW CEILING	FLOOR TILE	TAN,OTH,1X1 FL TL	1	-	-	NO
FH805	BASEMENT	FLOOR TILE	GREEN,OTH,FL TL	2	-	-	NO
FH806	FIRST FLR.-RM.10&83	ACOUSTICAL WALL TILE	WHITE,OTH,ACOUS TILE	-	-	-	YES
FH807	FIRST FLR.-RM.10&83	DUPLICATE SAMPLE	WHITE,OTH,ACOUS TILE	-	-	-	YES
FH808	FIRST FLR.	DUPLICATE SAMPLE	WHITE,OTH,ACOUS TILE	-	-	-	YES

^aAsbestos 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 9041.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 9041, SIGNAL BUILDING

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"	9-14"	>14"					
Basement	7	20	-	-	201	445	-	-	-	4.00	-	-	-
Basement Mech. Area	12	59	-	-	133	4	-	-	-	-	-	-	-
First Floor	-	-	-	-	-	-	-	-	-	0.34	-	-	-
Pipe Trench to 9039	-	-	-	-	296	290	-	-	-	-	-	-	-
TOTALS	19	79	-	-	630	739	-	-	-	4.34	-	-	-

* Other Material Present In Various Units Of Measure

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

Table 9041.3

**Other Asbestos-Containing Material - Building 9041, Signal Bldg.
Type Occupancy: Adults (Public)**

Area	Material Type	Quantity (Unit)
No Other Asbestos-Containing Material Found in this Building		

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

9041-5

TABLE 9041.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9041, SIGNAL BUILDING

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH609	Basement Mech. Area	<4" PIPE FITTING	A	2.800E-1	2	1	2	1	2	2.00	45
FH611	Basement Mech. Area	4-8" PIPE FITTING	A	2.800E-1	2	1	2	1	2	2.00	45
FH612	Basement Mech. Area	4-8" PIPE RUN	A	2.800E-1	2	1	2	1	2	2.00	40
FH613	Basement	<4" PIPE FITTING	A	2.800E-1	2	1	2	1	2	2.00	45
FH615	Basement	4-8" PIPE FITTING	A	2.800E-1	2	1	2	1	2	2.00	40
FH616	Basement	4-8" PIPE RUN	A	2.800E-1	2	1	2	1	2	2.00	40
FH619	Basement	4-8" PIPE FITTING	A	2.800E-1	2	1	2	1	2	2.00	40
FH620	Basement	4-8" PIPE RUN	A	2.800E-1	2	1	2	1	2	2.00	40
FH620	Pipe Trench to 9039	4-8" PIPE RUN	A	2.800E-1	2	1	2	1	2	2.00	40
FH610	Basement Mech. Area	<4" PIPE RUN	A	1.000E-1	2	1	2	1	2	2.00	10
FH614	Basement	<4" PIPE RUN	A	1.000E-1	2	1	2	1	2	2.00	10
FH617	Basement	<4" PIPE FITTING	A	1.000E-1	2	1	2	1	2	2.00	30
FH618	Basement	<4" PIPE RUN	A	1.000E-1	2	1	2	1	2	2.00	10
FH618	Pipe Trench to 9039	<4" PIPE RUN	A	1.000E-1	2	1	2	1	2	2.00	10
FH621	Basement	ACOUSTICAL WALL TILE	A	0	2	1	2	1	2	2.00	0
FH622	First Floor	ACOUSTICAL WALL TILE	A	0	1	2	1	2	15	40.00	0
FH806	FIRST FLR.-RM.10&83	ACOUSTICAL WALL TILE	A	0	1	2	1	2	15	40.00	0

Priority Index Codes

A [=] Long Term Corrective Measure
 B [=] Review Management Special Considerations/Remarks
 C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
 2 [=] Occupant Accessibility
 3 [=] Material Condition
 4 [=] Level Of Activity
 5 [=] Number Of Assigned Occupants

TABLE 9041.5

COST ESTIMATE* - BUILDING 9041, SIGNAL BUILDING

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	TOTAL
Pipe Fittings (EA)						
<4"	70.30	0.5	0.8	-	-	1.3
4-8"	85.80	1.7	5.1	-	-	6.8
9-14"	147.00	-	-	-	-	-
>14"	216.00	-	-	-	-	-
Pipe Runs (LF)						
<4"	26.50	5.3	3.5	-	7.8	16.7
4-8"	30.50	13.6	0.1	-	-	22.5
9-14"	42.50	-	-	-	-	-
>14"	60.80	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-
Floor Tile (SF)	5.60	22.4	-	1.9	-	24.3
Boilers/Tanks (SF)	37.90	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-
Other		-	-	-	-	-
SUBTOTAL		43.5	9.6	1.9	16.7	71.7
Difficulty Allowance		44.8	4.8	-	25.0	74.6
SUBTOTAL		88.3	14.3	1.9	41.7	146.3
Decontamination Units Mobilization		3.0	3.0	3.0	3.0	12.0
		0.5	0.5	0.5	0.5	2.0
SUBTOTAL		91.8	17.8	5.4	45.2	160.3
Contingency @ 15.00%		13.8	2.7	0.8	6.8	24.0
SUBTOTAL		105.6	20.5	6.2	52.0	184.3
Design Fee @ 10.00%		10.6	2.1	0.6	5.2	18.4
SUBTOTAL		116.2	22.6	6.8	57.2	202.8
Air Monitoring @ 10.00%***		5.1	5.1	5.1	5.1	20.3
TOTAL		121.2	27.6	11.9	62.3	223.1

* Amounts Are In Thousands Of Dollars

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

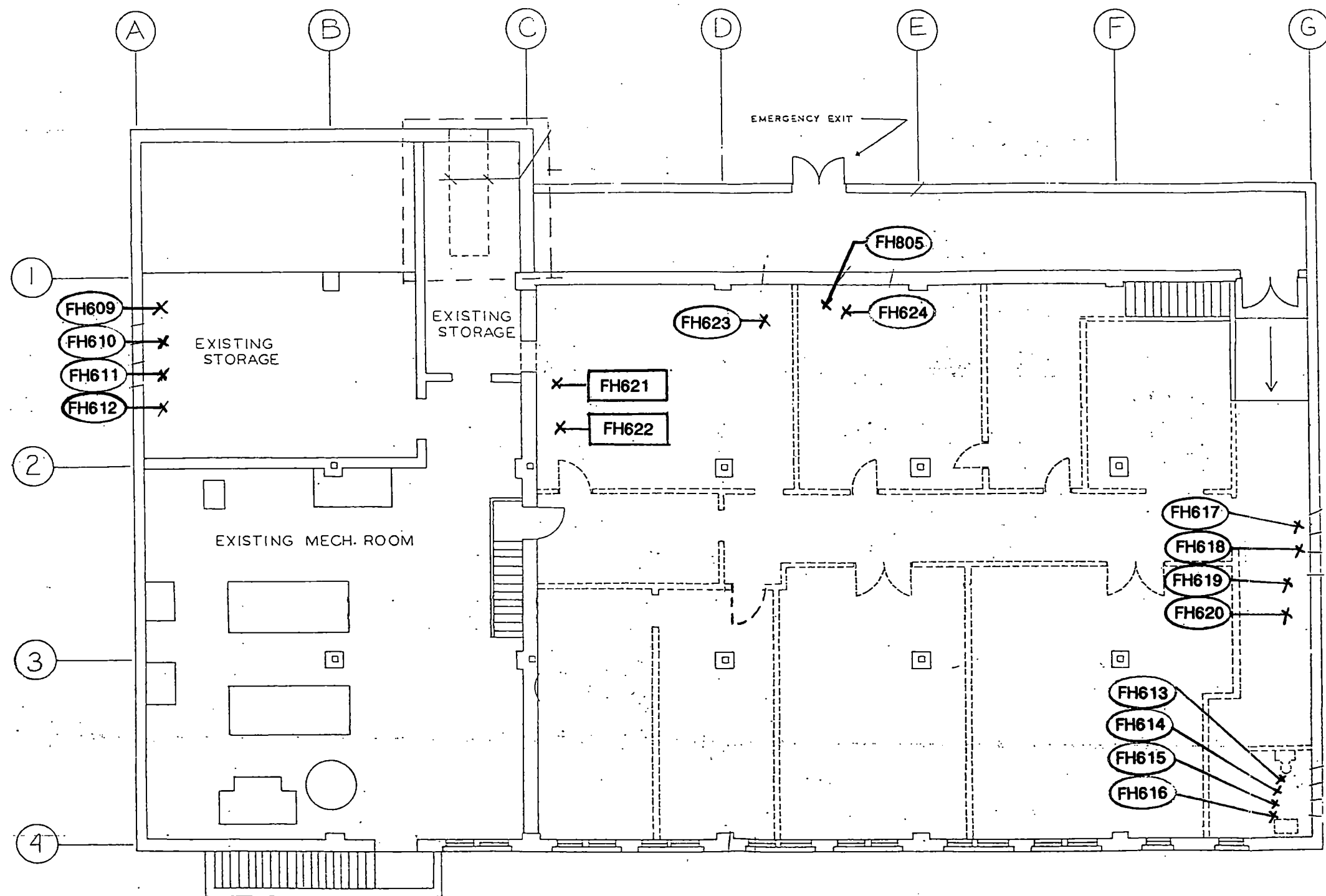
*** The Minimum Air Monitoring Fee is \$500.00 Per Building

AREA 1: Basement
AREA 3: First FloorAREA 2: Basement Mech. Area
AREA 4: Pipe Trench to 9039

SECTION 9041.4
PHOTOGRAPHS



Bldg. 9041 - Basement: Aircell-type pipe insulation tested positive.



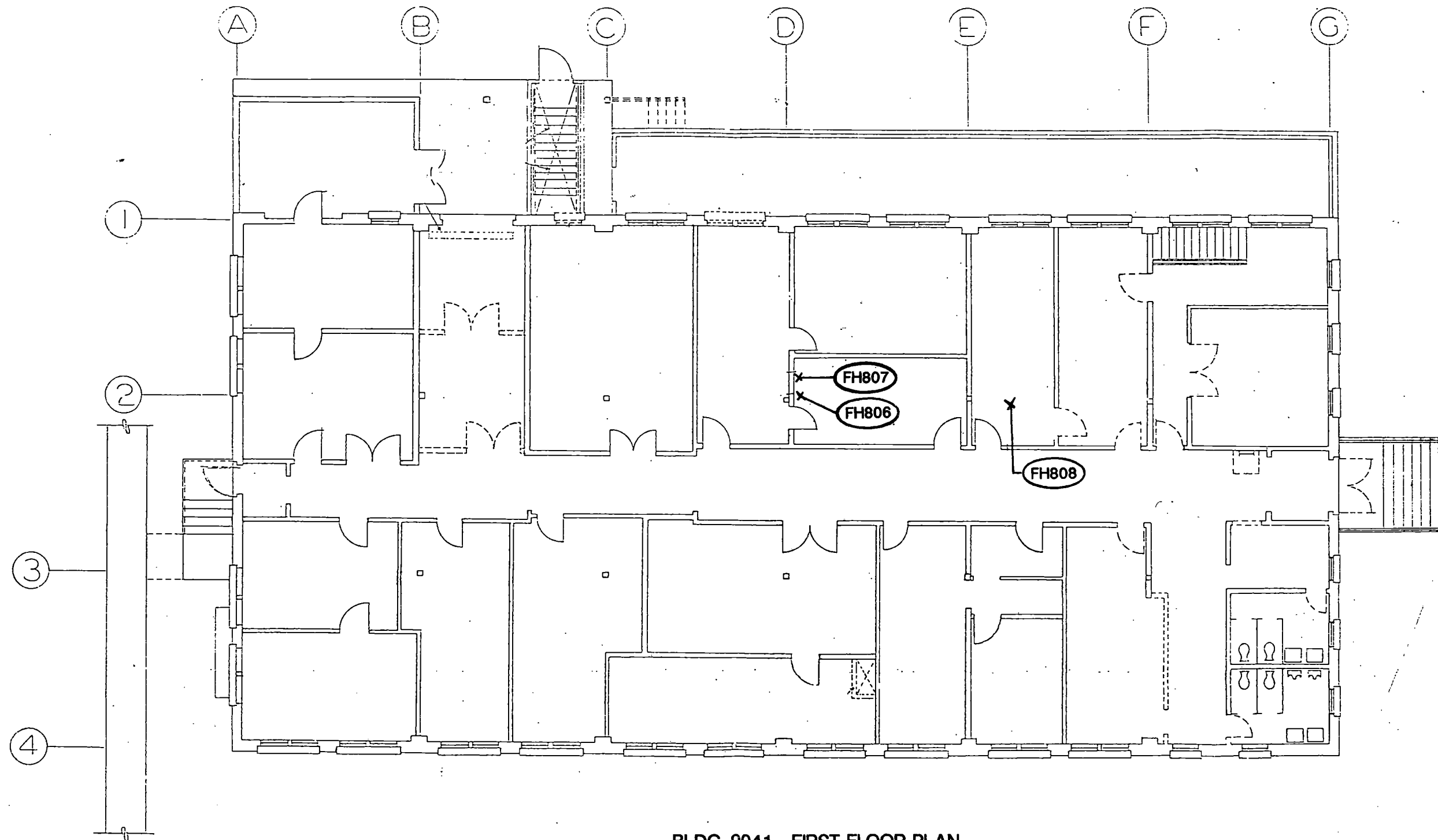
BLDG. 9041 - BASEMENT PLAN

LEGEND

POSITIVE SAMPLE

NEGATIVE SAMPLE

WESTON
MANAGEMENT CONSULTANTS



BLDG. 9041 - FIRST FLOOR PLAN

LEGEND

POSITIVE SAMPLE

NEGATIVE SAMPLE

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9042

9042

ADMINISTRATION (SIGNAL)

ADMINISTRATION (SIGNAL)

9042.1 GENERAL

Building 9042 was surveyed by WESTON technicians on 18 January 1991.

The first three portions of this facility report summarize the results of this inspection. Photographs of some sample locations are provided in Section 9042.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 22 samples of suspect material collected from the building. Of these samples, 16 were found to be asbestos-containing materials (ACM). Table 299.1 lists the analytical results for the bulk samples.

9042.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9042 are presented in Table 9042.1. An area-by-area inventory of ACM is provided in Tables 9042.2 and 9042.3. "Other Asbestos-Containing Materials," listed in Table 9042.3, are materials that do not correspond to the standard caption categories listed in Table 9042.2. A prioritized listing of exposure assessments is presented in Table 9042.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9042.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9042.2 and 9042.5.

9042.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- Asbestos-containing floor tile, pipe insulation, and fitting insulation should be labeled under the O&M Program.

TABLE 9042.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9042, ADMIN.(SIGNAL)

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH587	BASEMENT,BELOW CEILING	FLOOR TILE	GRAY,OTH,9X9 FL TL	5	-	-	NO
FH588	BASEMENT,BELOW CEILING	FLOOR TILE	BLACK,OTH,9X9 FL TL	10	-	-	NO
FH589	BASEMENT,BELOW CEILING	ACOUSTICAL WALL TILE	WHITE,OTH,1X1 WL TL	-	-	-	NO
FH590	BASEMENT,BELOW CEILING	ACOUSTICAL WALL TILE	WHITE,OTH,1X1 WL TL	-	-	-	NO
FH591	BASEMENT,BELOW CEILING	<4" PIPE FITTING	WHITE,STM,<4IN. FIT	35	-	-	NO
FH592	BASEMENT,BELOW CEILING	<4" PIPE RUN	WHITE,STM,<4IN. RUN	15	-	-	NO
FH593	BASEMENT,BELOW CEILING	4-8" PIPE FITTING	WHITE,STM,4-8IN. FIT	45	-	-	NO
FH594	BASEMENT,BELOW CEILING	4-8" PIPE RUN	WHITE,STM,4-8IN. RUN	30	-	-	NO
FH595	BASEMENT,BELOW CEILING	<4" PIPE FITTING	WHITE,STM,<4IN. FIT	45	-	-	NO
FH596	BASEMENT,BELOW CEILING	<4" PIPE RUN	WHITE,STM,<4IN. RUN	5	-	-	NO
FH597	BASEMENT,BELOW CEILING	4-8" PIPE FITTING	WHITE,STM,4-8IN. FIT	45	-	-	NO
FH598	BASEMENT,BELOW CEILING	4-8" PIPE RUN	WHITE,STM,4-8IN. RUN	30	-	-	NO
FH599	BASEMENT,BELOW CEILING	<4" PIPE FITTING	WHITE,STM,<4IN. FIT	45	-	-	NO
FH600	BASEMENT,BELOW CEILING	<4" PIPE RUN	WHITE,STM,<4IN. RUN	10	-	-	NO
FH601	BASEMENT,BELOW CEILING	4-8" PIPE FITTING	WHITE,STM,4-8IN. FIT	45	-	-	NO
FH602	BASEMENT,BELOW CEILING	4-8" PIPE RUN	WHITE,STM,4-8IN. RUN	40	-	-	NO
FH603	FIRST FLOOR,BELOW CEILING	FLOOR TILE	GRAY,OTH,9X9 FL TL	2	-	-	NO
FH604	FIRST FLOOR,BELOW CEILING	FLOOR TILE	GRAY,OTH,9X9 FL TL	3	-	-	NO
FH605	FIRST FLOOR,BELOW CEILING	FLOOR TILE	BROWN,OTH,1X1 FL TL	-	-	-	NO
FH606	FIRST FLOOR,BELOW CEILING	FLOOR TILE	BROWN,OTH,1X1 FL TL	-	-	-	NO
FH607	FIRST FLOOR,BELOW CEILING	CEILING TILE	WHITE,OTH,2X4 CL TL	-	-	-	NO
FH608	FIRST FLOOR,BELOW CEILING	CEILING TILE	WHITE,OTH,2X4 CL TL	-	-	-	NO

^aAsbestos 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 9042.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 9042, ADMIN. (SIGNAL)

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROVELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
Basement	6	143	-	-	621	635	-	-	-	3.92	-	-	-
First Floor	-	-	-	-	-	-	-	-	-	0.27	-	-	-
Pipe Tunnel	-	-	-	-	150	75	-	-	-	-	-	-	-
TOTALS	6	143	-	-	771	710	-	-	-	4.19	-	-	-

* Other Material Present In Various Units Of Measure

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

Table 9042.3

**Other Asbestos-Containing Material - Building 9042, Signal Admin.
Type Occupancy: Adults (Public)**

Area	Material Type	Quantity (Unit)
No Other Asbestos-Containing Material Found in this Building		

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

9042-5

TABLE 9042.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9042, ADMIN.(SIGNAL)

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH593	Basement	4-8" PIPE FITTING	A	4.050E-1	3	1	2	1	1	1.00	45
FH595	Basement	<4" PIPE FITTING	A	4.050E-1	3	1	2	1	1	1.00	45
FH597	Basement	4-8" PIPE FITTING	A	4.050E-1	3	1	2	1	1	1.00	45
FH599	Basement	<4" PIPE FITTING	A	4.050E-1	3	1	2	1	1	1.00	45
FH601	Basement	4-8" PIPE FITTING	A	4.050E-1	3	1	2	1	1	1.00	45
FH602	Basement	4-8" PIPE RUN	A	4.050E-1	3	1	2	1	1	1.00	40
FH602	Pipe Tunnel	4-8" PIPE RUN	A	4.050E-1	3	1	2	1	1	1.00	40
FH591	Basement	<4" PIPE FITTING	A	1.450E-1	3	1	2	1	1	1.00	35
FH592	Basement	<4" PIPE RUN	A	1.450E-1	3	1	2	1	1	1.00	15
FH594	Basement	4-8" PIPE RUN	A	1.450E-1	3	1	2	1	1	1.00	30
FH598	Basement	4-8" PIPE RUN	A	1.450E-1	3	1	2	1	1	1.00	30
FH600	Basement	<4" PIPE RUN	A	1.450E-1	3	1	2	1	1	1.00	10
FH600	Pipe Tunnel	<4" PIPE RUN	A	1.450E-1	3	1	2	1	1	1.00	10
FH596	Basement	<4" PIPE RUN	A	2.500E-2	3	1	2	1	1	1.00	5
FH589	Basement	ACOUSTICAL WALL TILE	A	0	3	1	2	1	1	1.00	0
FH590	Basement	ACOUSTICAL WALL TILE	A	0	3	1	2	1	1	1.00	0
FH607	First Floor	CEILING TILE	A	0	1	3	1	2	15	40.00	0
FH608	First Floor	CEILING TILE	A	0	1	3	1	2	15	40.00	0

Priority Index Codes

A [=] Long Term Corrective Measure
 B [=] Review Management Special Considerations/Remarks
 C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
 2 [=] Occupant Accessibility
 3 [=] Material Condition
 4 [=] Level Of Activity
 5 [=] Number Of Assigned Occupants

TABLE 9042.5

COST ESTIMATE* - BUILDING 9042, ADMIN.(SIGNAL)

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	TOTAL
Pipe Fittings (EA)					
<4"	70.30	0.4	-	-	0.4
4-8"	85.80	12.3	-	-	12.3
9-14"	147.00	-	-	-	-
>14"	216.00	-	-	-	-
Pipe Runs (LF)					
<4"	26.50	16.5	-	4.0	20.4
4-8"	30.50	18.4	-	2.3	21.7
9-14"	22.50	-	-	-	-
>14"	60.80	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-
Floor Tile (SF)	5.60	22.0	1.5	-	23.5
Boilers/Tanks (SF)	37.90	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-
Other		-	-	-	-
SUBTOTAL		70.5	1.5	6.3	78.3
Difficulty Allowance		-	-	-	-
SUBTOTAL		70.5	1.5	6.3	78.3
Decontamination Units Mobilization		2.0 0.7	2.0 0.7	2.0 0.7	6.0 2.0
SUBTOTAL		73.1	4.2	8.9	86.3
Contingency @ 15.00%		11.0	0.6	1.3	12.9
SUBTOTAL		84.1	4.8	10.3	99.2
Design Fee @ 10.00%		8.4	0.5	1.0	9.9
SUBTOTAL		92.5	5.3	11.3	109.1
Air Monitoring @ 10.00%***		3.6	3.6	3.6	10.9
TOTAL		96.2	8.9	14.9	120.0

*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 Per Building

AREA 1: Basement
AREA 3: Pipe Tunnel

AREA 2: First Floor

SECTION 9042.4

PHOTOGRAPHS



Bldg. 9042 - Basement: Sample FH591 < 4" mud fitting tested positive. Samples FH592 < 4" pipe run; sample FH593, 4 - 8" mud fitting; and sample FH594, 4 - 8" pipe run all tested positive.



Bldg. 9042 - Basement: Sample FH595 < 4" mud fitting tested positive.



Bldg. 9042 - Basement: Sample FH596 (not shown) < 4" pipe insulation tested positive; sample FH597, 4 - 8" mud fitting tested positive; sample FH598, 4 - 8" pipe insulation (not shown) also tested positive.



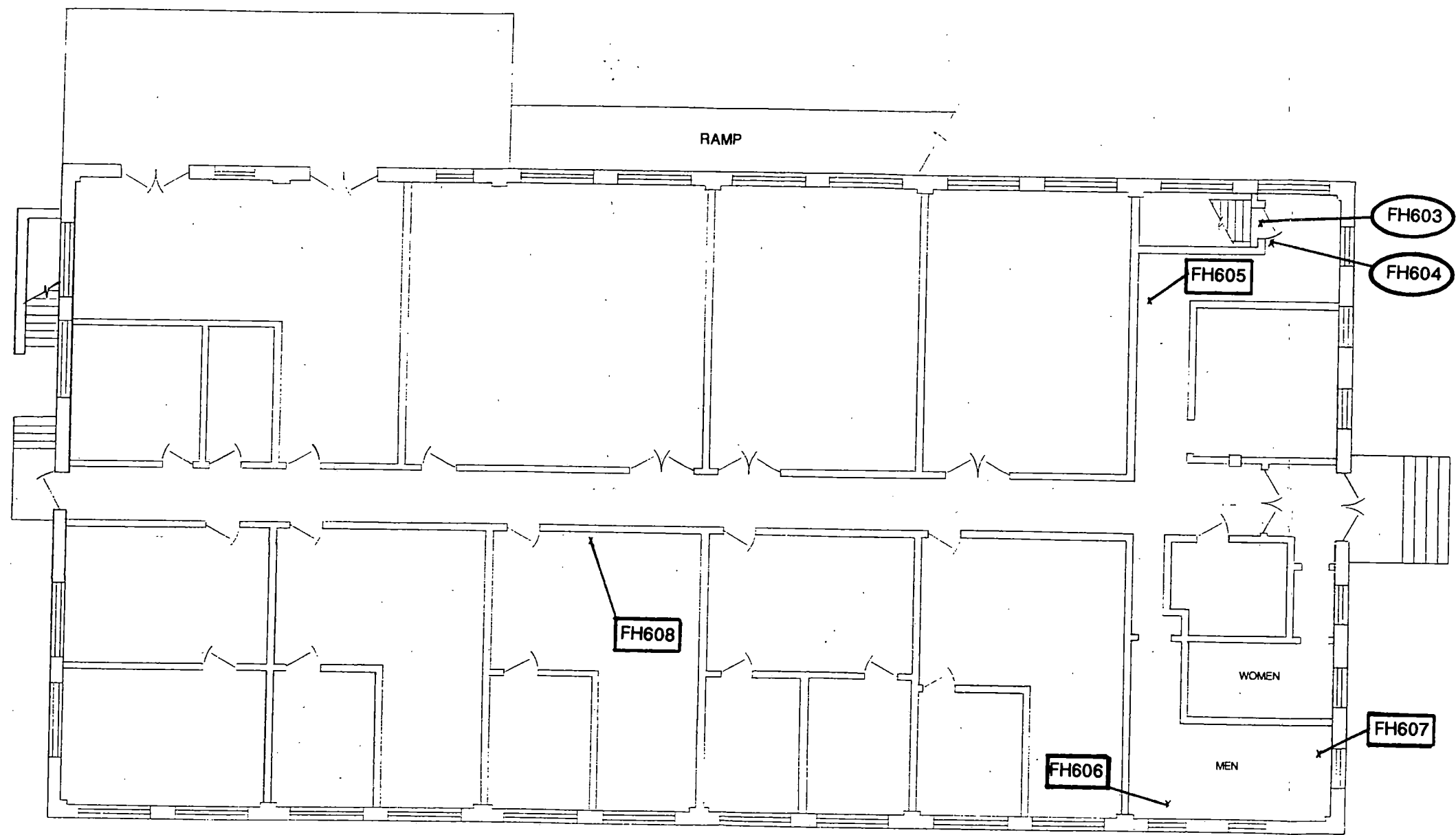
Bldg. 9042 - Basement, Corridor leading to Pipe Tunnel: Sample FH599 < 4" mud fitting tested positive; sample FH600 < 4" pipe insulation also tested positive.



Bldg. 9042 - Basement, Corridor leading to Pipe Tunnel: Sample FH601, 4 - 8" mud fitting tested positive. Sample FH602 (not shown), 4 - 8" pipe run also tested positive.



Bldg. 9042 - First Floor: Sample FH603, 9 x 9" gray floor tiles tested positive; sample FH604 9 x 9" gray floor tiles (not shown) also tested positive.



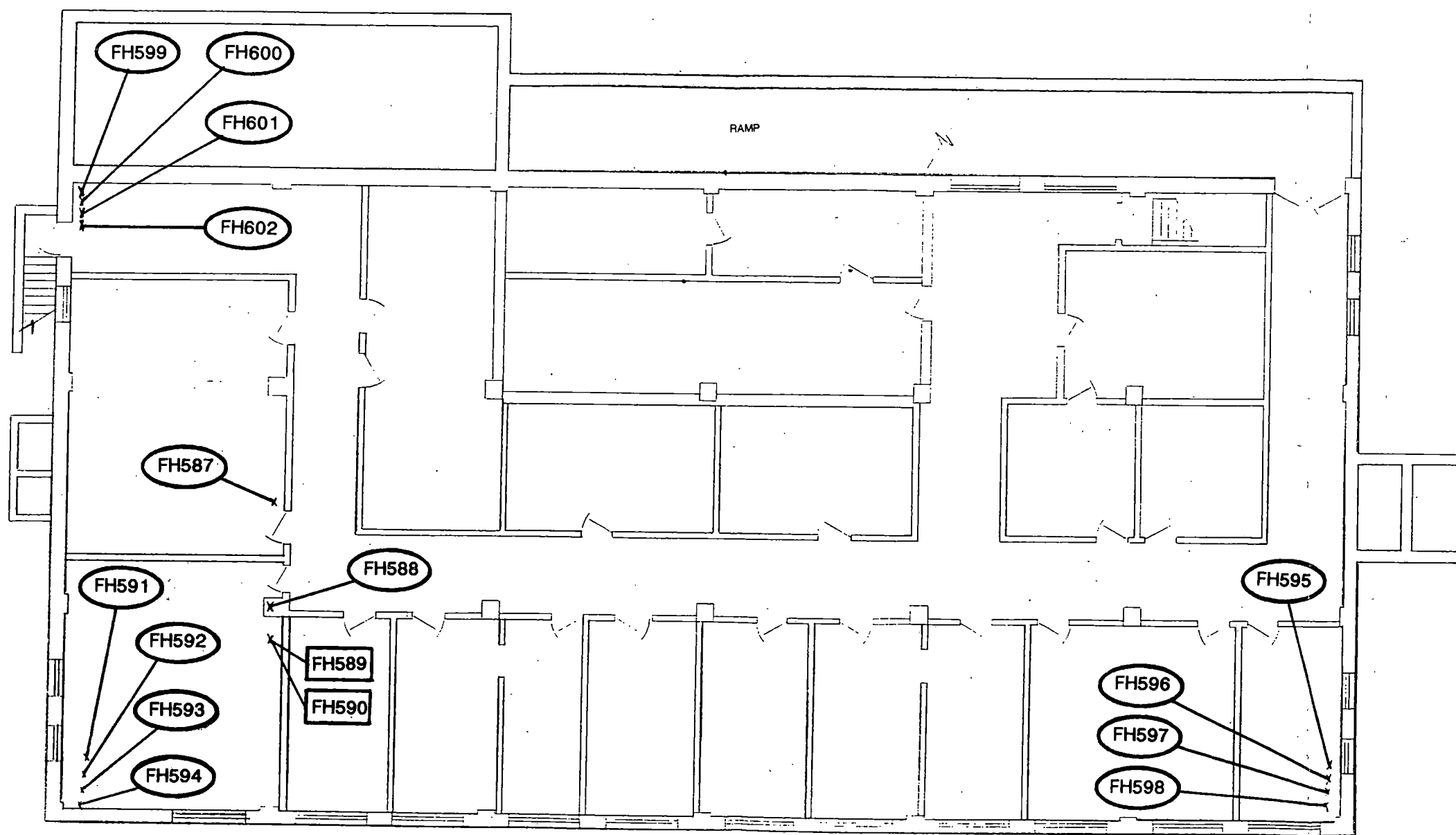
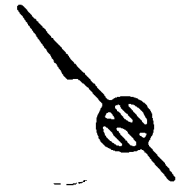
BLDG. 9042
FIRST LOOR PLAN

LEGEND

 POSITIVE SAMPLE

 NEGATIVE SAMPLE





BLDG. 9042
BASEMENT PLAN

LEGEND

 POSITIVE SAMPLE

 NEGATIVE SAMPLE

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9061

9061

CARPENTRY/METAL SHOP

CARPENTRY/METAL SHOP**9061.1 GENERAL**

Building 9061 was surveyed by WESTON technicians on 17 January 1991.

The first three portions of this facility report summarize the results of this inspection. Photographs of some sample locations are provided in Section 9061.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 5 samples of suspect material collected from the building. Of these samples, all 5 were found to be asbestos-containing materials (ACM). Table 9061.1 lists the analytical results for the bulk samples.

9061.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9061 are presented in Table 9061.1. An area-by-area inventory of ACM is provided in Tables 9061.2 and 9061.3. "Other Asbestos-Containing Materials," listed in Table 9061.3, are materials that do not correspond to the standard caption categories listed in Table 9061.2. A prioritized listing of exposure assessments is presented in Table 9061.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9061.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9061.2 and 9061.5.

9061.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- The wood shop in Building 9061 qualifies for the Army Asbestos Deficiency Abatement Project.
- Other asbestos-containing materials should be labeled under the O&M Program.

TABLE 9061.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9061, CARPENTRY/METAL SHOP

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH575	ATTIC I,BELOW CEILING	TRANSITE PANEL BOARD	GRAY,OTH,TRANSITE,HORIZONTAL	35	-	-	NO
FH576	WOODSHOP,BELOW CEILING	FLOOR TILE	BLACK,OTH,9X9 FL TL,HORIZONTAL	5	-	-	NO
FH577	WOODSHOP,BELOW CEILING	FLOOR TILE	WHITE,OTH,9X9 FL TL,HORIZONTAL	5	-	-	NO
FH578	WOODSHOP,BELOW CEILING	AIR HANDLING EQUIPMENT	WHITE,OTH,DUCT INSUL,HORIZONTAL	50	-	-	NO
FH579	ATTIC I,BELOW CEILING	DEBRIS	GRAY,OTH,DEBRIS,HORIZONTAL	45	-	-	NO

^aAsbestos 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 9061.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 9061, CARPENTRY/METAL SHOP

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"	9-14"	>14"					
Attic I	-	-	-	-	-	-	-	-	-	-	-	-	*
Woodshop	-	-	-	-	-	-	-	-	-	0.24	-	0.03	-
TOTALS	-	-	-	-	-	-	-	-	-	0.24	-	0.03	*

* Other Material Present In Various Units Of Measure

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

Table 9061.3

Other Asbestos-Containing Material - Building 9061, Carp/Metal Shop
Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
Attic I	Transite Panel Board	0.048 (MSF)
Attic I	Debris	0.005 (MSF)

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

9061-5

TABLE 9061.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9061, CARPENTRY/METAL SHOP

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH578	Woodshop	AIR HANDLING EQUIPMENT	C	5.700E03	2	2	1	2	3	40.00	50
FH579	Attic I	DEBRIS	A	2.175E-4	1	1	2	1	1	1.00	45
FH575	Attic I	TRANSITE PANEL BOARD	A	7.750E-5	1	1	2	1	1	1.00	35

Priority Index Codes

A [=] Long Term Corrective Measure
 B [=] Review Management Special Considerations/Remarks
 C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
 2 [=] Occupant Accessability
 3 [=] Material Condition
 4 [=] Level Of Activity
 5 [=] Number Of Assigned Occupants

TABLE 9061.5

COST ESTIMATE* - BUILDING 9061, CARPENTRY/METAL SHOP

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	TOTAL
Pipe Fittings (EA)				
<4"	70.30	-	-	-
4-8"	82.80	-	-	-
9-14"	147.00	-	-	-
>14"	216.00	-	-	-
Pipe Runs (LF)				
<4"	26.50	-	-	-
4-8"	30.50	-	-	-
9-14"	42.50	-	-	-
>14"	60.80	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-
Floor Tile (SF)	5.60	-	1.3	1.3
Boilers/Tanks (SF)	37.90	-	-	-
Air Handling Equipment (SF)	20.00	-	0.7	0.7
Other		0.6	-	0.6
SUBTOTAL		0.6	2.0	2.6
Difficulty Allowance		-	0.7	0.7
SUBTOTAL		0.6	2.6	3.3
Decontamination Units		3.0	3.0	6.0
Mobilization		1.0	1.0	2.0
SUBTOTAL		4.6	6.6	11.3
Contingency @ 15.00%		0.7	1.0	1.7
SUBTOTAL		5.3	7.6	13.0
Design Fee @ 10.00%		0.5	0.8	1.3
SUBTOTAL		5.9	8.4	14.3
Air Monitoring @ 10.00%***		0.7	0.7	1.4
TOTAL		6.6	9.1	15.7

* 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 Per Building

AREA 1: Attic I

AREA 2: Woodshop

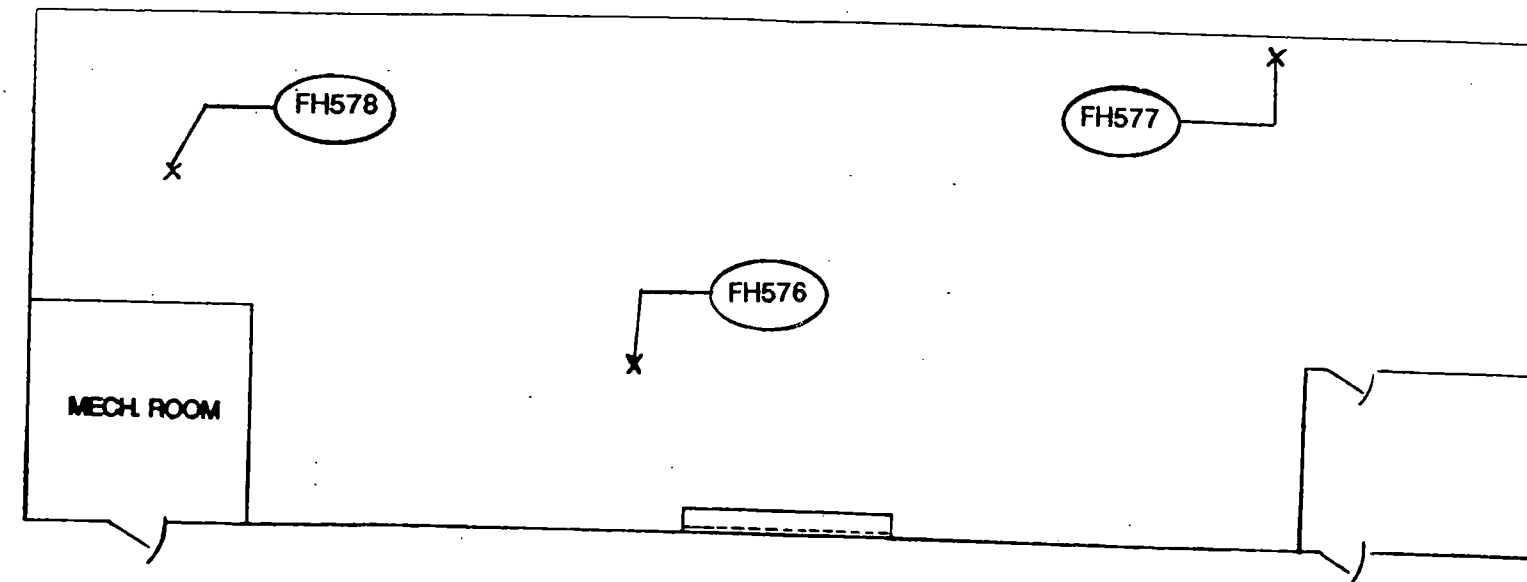
SECTION 9061.4
PHOTOGRAPHS



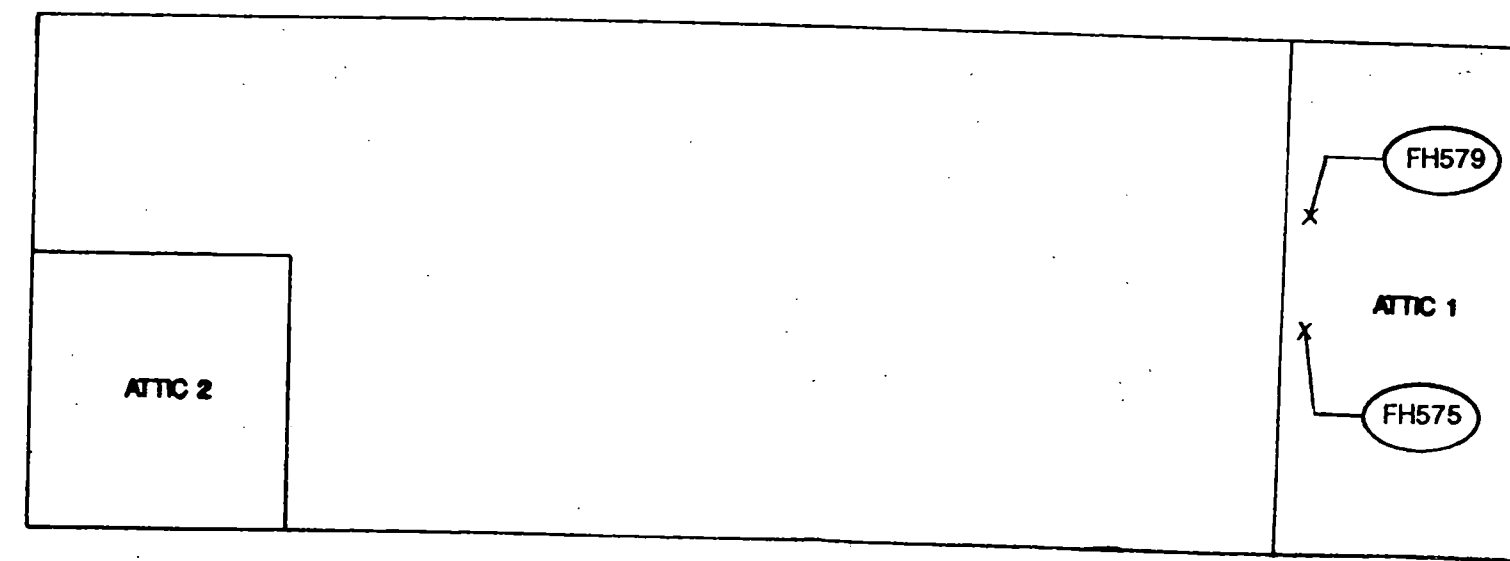
Bldg. 9061 - Carpenter Shop/Metal Shop, Attic: Transite panels sample FH575 tested positive; FH576, 9 x 9" black floor tiles also tested positive; sample FH579 gasket material debris in attic area (not shown) tested positive.



Bldg. 9061 - Carpenter Shop/Metal Shop, Attic: Roll of gasket material sample FH578 tested positive; sample FH577 9 x 9" white floor tile also tested positive (not shown).



FIRST FLOOR PLAN



SECOND FLOOR PLAN

BUILDING 9061

LEGEND
○ FHnnn POSITIVE SAMPLE
□ FHnnn NEGATIVE SAMPLE



9090

9090

STOREHOUSE

9090

STOREHOUSE

9090.1 GENERAL

Building 9090 was surveyed by WESTON technicians on 22 January 1991.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 2 samples of suspect material collected from the building. Of these samples, both were found to be asbestos-containing materials (ACM). Table 9090.1 lists the analytical results for the bulk samples.

9090.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9090 are presented in Table 9090.1. An area-by-area inventory of ACM is provided in Tables 9090.2 and 9090.3. "Other Asbestos-Containing Materials," listed in Table 9090.3, are materials that do not correspond to the standard caption categories listed in Table 9090.2. A prioritized listing of exposure assessments is presented in Table 9090.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9090.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9090.2 and 9090.5.

9090.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- Asbestos-containing floor tile should be labeled under the O&M Program.

TABLE 9090.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9090, STOREHOUSE

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH628	FIRST FLOOR NORTH,BELOW CEILING	FLOOR TILE	BLUE,OTH,9X9 FL TL,HORIZONTAL	2	-	-	YES
FH629	FIRST FLOOR NORTH,BELOW CEILING	FLOOR TILE	BROWN,OTH,9X9 FL TL,HORIZONTAL	1	-	-	NO

^aAsbestos 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 9090.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 9090, STOREHOUSE

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROVELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
First Floor North	-	-	-	-	-	-	-	-	-	0.76	-	-	-
TOTALS	-	-	-	-	-	-	-	-	-	0.76	-	-	-

* Other Material Present In Various Units Of Measure

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

Table 9090.3

**Other Asbestos-Containing Material - Building 9090, Storage
Type Occupancy: Adults (Public)**

Area	Material Type	Quantity (Unit)
No Other Asbestos-Containing Material Found in this Building		

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

9090-5

TABLE 9090.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9090, STOREHOUSE

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		

Only Non-Friable Material Was Detected In This Building
Exposure Assessments Are Not Available

Priority Index Codes

A [=] Long Term Corrective Measure
B [=] Review Management Special Considerations/Remarks
C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
2 [=] Occupant Accessibility
3 [=] Material Condition
4 [=] Level Of Activity
5 [=] Number Of Assigned Occupants

TABLE 9090.5

COST ESTIMATE* - BUILDING 9090, STOREHOUSE

DESCRIPTION	UNIT COST (\$)	AREA 1	TOTAL
Pipe Fittings (EA)			
<4"	70.30	-	-
4-8"	85.80	-	-
9-14"	147.00	-	-
>14"	216.00	-	-
Pipe Runs (LF)			
<4"	26.50	-	-
4-8"	30.50	-	-
9-14"	42.50	-	-
>14"	60.80	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-
Floor Tile (SF)	5.60	4.3	4.3
Boilers/Tanks (SF)	37.90	-	-
Air Handling Equipment (SF)	20.00	-	-
Other		-	-
SUBTOTAL		4.3	4.3
Difficulty Allowance		-	-
SUBTOTAL		4.3	4.3
Decontamination Units		3.0	3.0
Mobilization		2.0	2.0
SUBTOTAL		9.3	9.3
Contingency @ 15.00%		1.4	1.4
SUBTOTAL		10.6	10.6
Design Fee @ 10.00%		1.1	1.1
SUBTOTAL		11.7	11.7
Air Monitoring @ 10.00%***		1.2	1.2
TOTAL		12.9	12.9

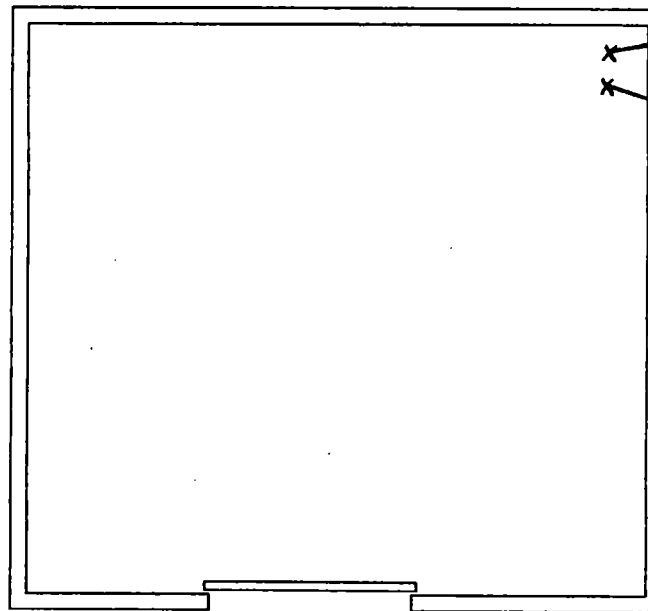
*Amounts Are In Thousands Of Dollars

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

***The Minimum Air Monitoring Fee is \$500.00 Per Building

AREA 1: First Floor North

8-0606



FH629

FH628

BLDG. 9090

LEGEND

 FHnnn POSITIVE SAMPLE

 FHnnn NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

9307

9307

STOREHOUSE

STOREHOUSE

9307.1 GENERAL

Building 9307 was surveyed by WESTON technicians on 22 January 1991.

The first three portions of this facility report summarize the results of this inspection.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 3 samples of suspect material collected from the building. Of these samples, all 3 were found to be asbestos-containing materials (ACM). Table 9307.1 lists the analytical results for the bulk samples.

9307.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9307 are presented in Table 9307.1. An area-by-area inventory of ACM is provided in Tables 9307.2 and 9307.3. "Other Asbestos-Containing Materials," listed in Table 9307.3, are materials that do not correspond to the standard caption categories listed in Table 9307.2. A prioritized listing of exposure assessments is presented in Table 9307.4. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9307.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS Section of this report. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9307.2 and 9307.5.

9307.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- Asbestos-containing floor tile should be labeled under the O&M Program.

TABLE 9307.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9307, RECORD STORAGE

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH625	FIRST FLOOR SOUTH,BELOW CEILING	FLOOR TILE	BROWN,OTH,9X9 FL TL,HORIZONTAL	3	-	-	YES
FH626	FIRST FLOOR NORTH,BELOW CEILING	FLOOR TILE	BROWN,OTH,9X9 FL TL,HORIZONTAL	10	-	-	YES
FH627	FIRST FLOOR NORTH,BELOW CEILING	FLOOR TILE	TAN,OTH,9X9 FL TL,HORIZONTAL	5	-	-	YES

^aAsbestos content presented for layered samples represents the highest concentration layer.

Quadrant Codes

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 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 9307.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 9307, RECORD STORAGE

AREA	PIPE FITTINGS (EA)				PIPE RUNS (LF)				SPRAY/TROVELED CEILINGS (MSF)	FLOOR TILE (MSF)	BOILERS/ TANKS (MSF)	AIR HANDLING EQUIPMENT (MSF)	OTHER
	<4"	4-8"	9-14"	>14"	<4"	4-8"	9-14"	>14"					
First Floor North	-	-	-	-	-	-	-	-	-	1.54	-	-	-
First Floor South	-	-	-	-	-	-	-	-	-	1.52	-	-	-
TOTALS	-	-	-	-	-	-	-	-	-	3.06	-	-	-

* Other Material Present In Various Units Of Measure

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

Table 9307.3

Other Asbestos-Containing Material - Building 9307, Record Storage
Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
No Other Asbestos-Containing Material Found in this Building		

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

9307-5

TABLE 9307.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9307, RECORD STORAGE

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		

Only Non-Friable Material Was Detected In This Building
Exposure Assessments Are Not Available

Priority Index Codes

A [=] Long Term Corrective Measure
B [=] Review Management Special Considerations/Remarks
C [=] Army Asbestos Deficiency Abatement Project

Priority Index Numbers Are In Scientific Notation

Exposure Factors

1 [=] Material Friability
2 [=] Occupant Accessibility
3 [=] Material Condition
4 [=] Level Of Activity
5 [=] Number Of Assigned Occupants

TABLE 9307.5

COST ESTIMATE* - BUILDING 9307, RECORD STORAGE

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	TOTAL
Pipe Fittings (EA)				
<4"	70.30	-	-	-
4-8"	85.80	-	-	-
9-14"	147.00	-	-	-
>14"	216.00	-	-	-
Pipe Runs (LF)				
<4"	26.50	-	-	-
4-8"	30.50	-	-	-
9-14"	42.50	-	-	-
>14"	60.80	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-
Floor Tile (SF)	5.60	8.6	8.5	17.1
Boilers/Tanks (SF)	37.90	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-
Other		-	-	-
SUBTOTAL		8.6	8.5	17.1
Difficulty Allowance		4.3	4.3	8.6
SUBTOTAL		12.9	12.8	25.7
Decontamination Units Mobilization		1.5	1.5	3.0
SUBTOTAL		15.4	15.3	30.7
Contingency @ 15.00%		2.3	2.3	4.6
SUBTOTAL		17.8	17.6	35.3
Design Fee @ 10.00%		1.8	1.8	3.5
SUBTOTAL		19.5	19.3	38.8
Air Monitoring @ 10.00%***		1.9	1.9	3.9
TOTAL		21.5	21.3	42.7

* Amounts Are In Thousands Of Dollars

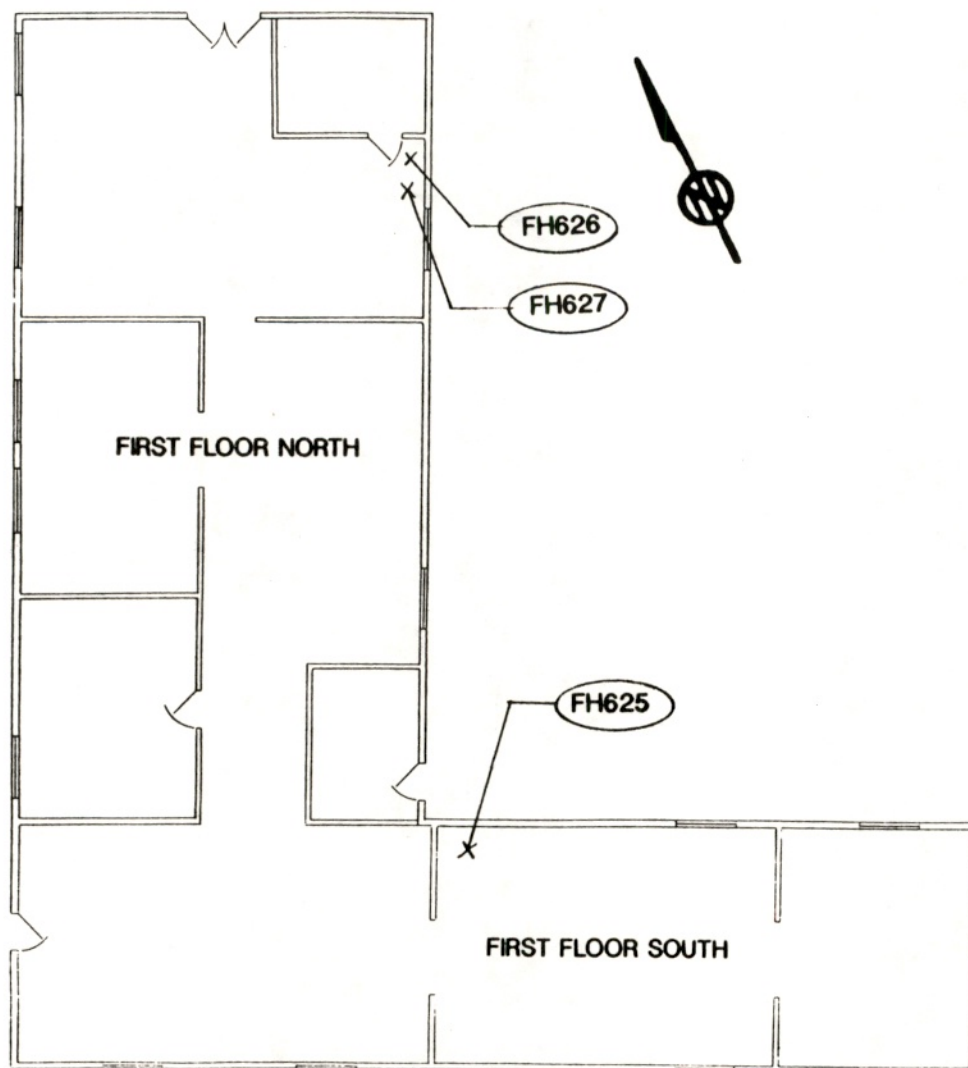
** Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

*** The Minimum Air Monitoring Fee is \$500.00 Per Building

AREA 1: First Floor North

AREA 2: First Floor South

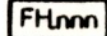
9307-8



BUILDING 9307

LEGEND

 POSITIVE SAMPLE

 NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS