



Phase III

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

***Volume II - Building Reports for a
Comprehensive Asbestos
Survey in Various Buildings at
Fort Monmouth, New Jersey***

Contract Number DACA61-89-D-0002
DACA61-89-D-0013
DACA61-91-M-0837

February 1992

Prepared for:

U.S. ARMY ENGINEER DISTRICT
U.S. Custom House
Philadelphia, Pennsylvania 19106

C23B

Prepared by:



Roy F. Weston, Inc.
West Chester,
Pennsylvania 19380

**BUILDING REPORTS
FOR A COMPREHENSIVE ASBESTOS SURVEY
IN VARIOUS BUILDINGS AT
FORT MONMOUTH, NEW JERSEY**

PHASE III

VOLUME II

**CONTRACT NOS. DACA61-89-D-0002
DACA61-89-D-0013
DACA61-91-M-0837**

Prepared For:

U.S. ARMY CORPS OF ENGINEERS

Philadelphia, Pennsylvania

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Prepared By:

**ROY F. WESTON, INC.
One Weston Way
West Chester, Pennsylvania 19380**

Weston Work Order Nos. 3886-37-10 and 3886-54-01

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673

673
WAREHOUSE

WAREHOUSE

673.1 GENERAL

Building 673 was surveyed by WESTON technicians on 6 June 1991.

The first three portions of this facility report summarize the results of this inspection. Photographs of some sample locations are provided in Section 673.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 9 samples of suspect material collected from the building. Of these samples, 5 were found to be asbestos-containing materials (ACM). Table 673.1 lists the analytical results for the bulk samples.

673.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 673 are presented in Table 673.1. An area-by-area inventory of ACM is provided in Tables 673.2 and 673.3. "Other Asbestos-Containing Materials," listed in Table 673.3, are materials that do not correspond to the standard caption categories listed in Table 673.2. A prioritized listing of exposure assessments is presented in Table 673.4. The method by which the exposure assessment priority index values are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.5 of the Guide Document that accompanies this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 673.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.4 of the Guide Document. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 673.2 and 673.5.

673.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- Asbestos-containing floor tile, electrical wire insulation, and transite panel should be labeled under the O&M Program.

TABLE 673.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 673, WAREHOUSE

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH914	EXT. WALL	TRANSITE PANEL BOARD	GRAY,OTH,TRAN PANEL	35	-	-	YES
FH939	WAREHOUSE	FLOOR TILE	BROWN,OTH,9X9 FL TL	7	-	-	NO
FH940	WAREHOUSE	FLOOR TILE	GREEN,OTH,9X9 FL TL	7	-	-	YES
FH941	WAREHOUSE	DUPLICATE SAMPLE	GREEN,OTH,9X9 FL TL	7	-	-	YES
FH942	WAREHOUSE	<4" PIPE FITTING	WHITE,UNK,PIPE FITT.	-	-	-	YES
FH943	WAREHOUSE	<4" PIPE FITTING	WHITE,UNK,PIPE FITT.	-	-	-	YES
FH944	WAREHOUSE	BOILERS/TANKS	GRAY,OTH,TANK INSUL	-	-	-	NO
FH945	WAREHOUSE	BOILERS/TANKS	GRAY,OTH,TANK INSUL	-	-	-	YES
FH946	WAREHOUSE	OTHER MATERIAL	WHITE,OTH,LIGHT WIRE	45	-	-	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 673.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 673, WAREHOUSE

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"					
EXT. WALL	-	-	-	-	-	-	-	-	-	-	-	-	*
WAREHOUSE	-	-	-	-	-	-	-	-	-	2.40	-	-	*
TOTALS	-	-	-	-	-	-	-	-	-	2.40	-	-	*

* Other Material Present In Various Units Of Measure

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

Table 673.3

**Other Asbestos-Containing Material - Building 673, Warehouse
Type Occupancy: Adults (Public)**

Area	Material Type	Quantity (Unit)
Exterior Wall	Transite Siding	0.400 (MSF)
Warehouse	Electrical Wire	50 LF

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

673-5

TABLE 673.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 673, WAREHOUSE

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH914	EXT. WALL	TRANSITE PANEL BOARD	B	2.750E02	3	2	2	2	1	1.00	35
FH942	WAREHOUSE	<4" PIPE FITTING	A	0	3	2	2	2	1	1.00	0
FH943	WAREHOUSE	<4" PIPE FITTING	A	0	3	2	2	2	1	1.00	0
FH944	WAREHOUSE	BOILERS/TANKS	A	0	3	2	2	2	1	1.00	0
FH945	WAREHOUSE	BOILERS/TANKS	A	0	3	2	2	2	1	1.00	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 673.5

COST ESTIMATE* - BUILDING 673, WAREHOUSE

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	TOTAL
Pipe Fittings (EA)				
<4"	70.30	-	-	-
4-8"	85.80	-	-	-
9-14"	146.70	-	-	-
>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	-	13.4	13.4
Boilers/Tanks (SF)	37.90	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-
Other		4.4	**	4.5
SUBTOTAL		4.4	13.5	17.9
Difficulty Allowance		-	-	-
SUBTOTAL		4.4	13.5	17.9
Decontamination Units		1.5	1.5	3.0
Mobilization		1.0	1.0	2.0
SUBTOTAL		6.9	16.0	22.9
Contingency @ 15.00%		1.0	2.4	3.4
SUBTOTAL		7.9	18.4	26.3
Design Fee @ 10.00%		0.8	1.8	2.6
SUBTOTAL		8.7	20.2	29.0
Air Monitoring @ 10.00%***		1.4	1.4	2.9
TOTAL		10.2	21.7	31.9

*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: EXT. WALL

AREA 2: WAREHOUSE

SECTION 673.4
PHOTOGRAPHS



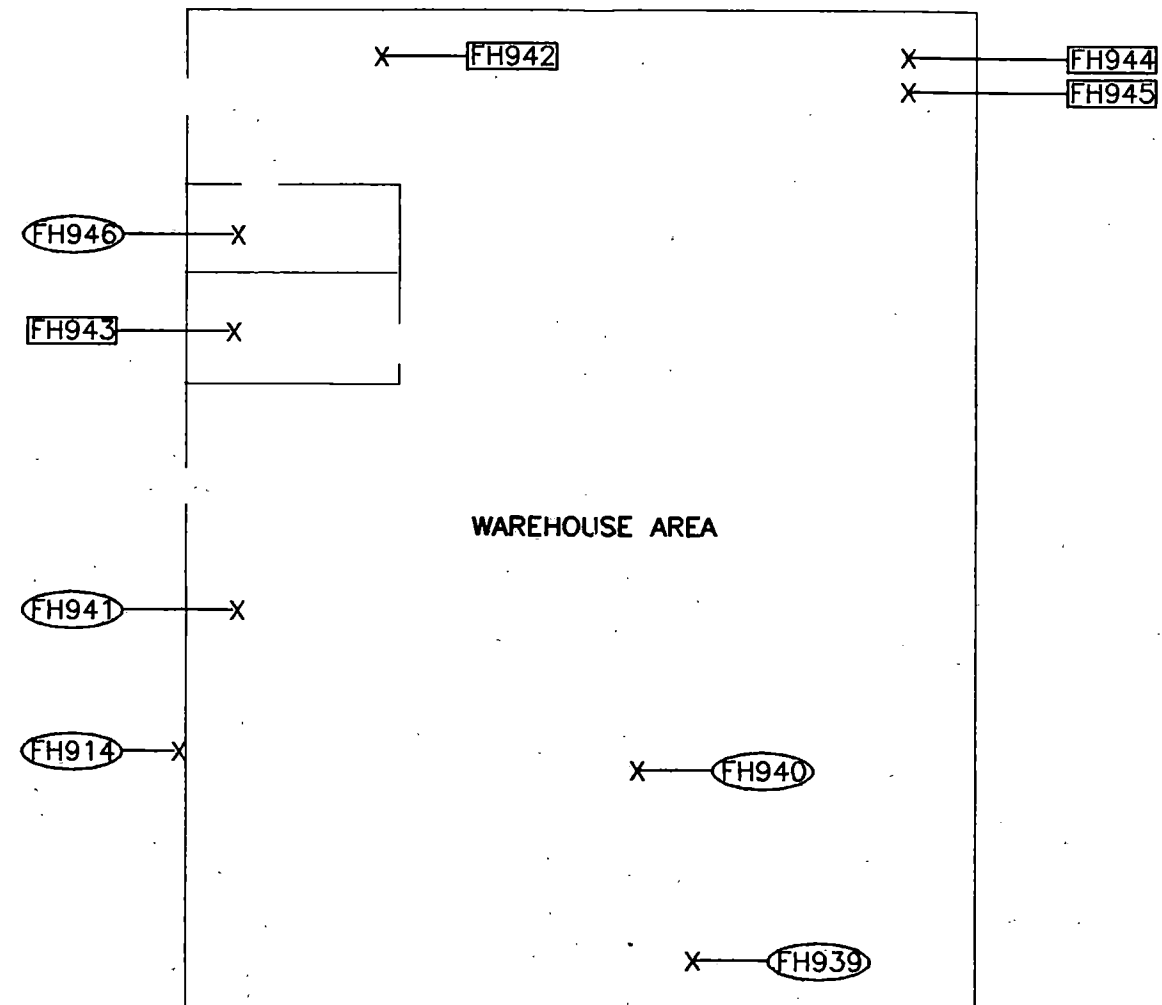
BLDG. 673

EXTERIOR WALL: (SAMPLE FH914) GRAY TRANSITE
PANEL BOARD TESTED POSITIVE.



BLDG. 673

FIRST FLOOR: (SAMPLE FH946) WHITE ELECTRICAL
LAMP WIRE TESTED POSITIVE.



BLDG. 673
NOT TO SCALE



LEGEND

(FHnnn) POSITIVE SAMPLE
[FHnnn] NEGATIVE SAMPLE



682

682
MARS STATION

MARS STATION

682.1 GENERAL

Building 682 was surveyed by WESTON technicians on 5 June 1991.

The first three portions of this facility report summarize the results of this inspection. Photographs of some sample locations are provided in Section 682.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 12 samples of suspect material collected from the building. Of these samples, 10 were found to be asbestos-containing materials (ACM). Table 682.1 lists the analytical results for the bulk samples.

682.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 682 are presented in Table 682.1. An area-by-area inventory of ACM is provided in Tables 682.2 and 682.3. "Other Asbestos-Containing Materials," listed in Table 682.3, are materials that do not correspond to the standard caption categories listed in Table 682.2. A prioritized listing of exposure assessments is presented in Table 682.4. The method by which the exposure assessment priority index values are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.5 of the Guide Document that accompanies this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 682.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.4 of the Guide Document. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 682.2 and 682.5.

682.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- Asbestos-containing floor tile, transite panel, insulation material, expansion cloth, and stack insulation should be labeled under the O&M Program.

TABLE 682.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 682, MARS STATION

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH870	CORRIDORS & STUDIOS	CEILING TILE	WHITE,OTH,ACOUS CL	-	-	-	YES
FH871	CORRIDORS & STUDIOS	FLOOR TILE	BLUE,OTH,9X9 FL TL	3	-	-	NO
FH872	CORRIDORS & STUDIOS	FLOOR TILE	GREEN,OTH,9X9 FL TL	5	-	-	NO
FH873	OFFICE	FLOOR TILE	BROWN,OTH,9X9 FL TL	10	-	-	YES
FH874	CORRIDORS & STUDIOS	DUPLICATE SAMPLE	BLUE,OTH,9X9 FL TL	5	-	-	NO
FH875	CORRIDORS & STUDIOS	DUPLICATE SAMPLE	GREEN,OTH,9X9 FL TL	5	-	-	NO
FH876	CORRIDORS & STUDIOS	DUPLICATE SAMPLE	WHITE,OTH,ACOUS CL	-	-	-	YES
FH877	EXTERIOR WALL	TRANSITE PANEL BOARD	GRAY,OTH,TRAN PANEL	40	-	-	YES
FH878	HEATER ROOM	EXPANSION JOINT(S)	GRAY,OTH,FURNACE JT	20	-	-	YES
FH879	HEATER ROOM	OTHER MATERIAL	GRAY,OTH,CORR PAPER	45	-	-	NO
FH880	EXT STACK ABOVE FLUE	OTHER MATERIAL	TAN,OTH,FLUE MATER	20	-	-	NO
FH881	EXTERIOR WALL	TRANSITE PANEL BOARD	GRAY,OTH,TRAN PANEL	50	-	-	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 682.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 682, MARS STATION

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"					
CORRIDORS & STUDIOS	-	-	-	-	-	-	-	-	-	1.95	-	-	-
EXT STACK ABOVE FLUE	-	-	-	-	-	-	-	-	-	-	-	-	*
EXTERIOR WALL	-	-	-	-	-	-	-	-	-	-	-	-	*
HEATER ROOM	-	-	-	-	-	-	-	-	-	-	-	-	*
OFFICE	-	-	-	-	-	-	-	-	-	0.08	-	-	-
TOTALS	-	-	-	-	-	-	-	-	-	2.03	-	-	*

* Other Material Present In Various Units Of Measure

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

Table 682.3

Other Asbestos-Containing Material - Building 682, Mars Station
Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
Exterior Heater Room Wall	Transite Siding	0.120 (MSF)
Heater Room	Corrugated Paper	0.030 (MSF)
Exterior Flue Stack	Stack Insulation	0.040 (MSF)
Heater Room	Cloth Furnace Joint	3 (EA)

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

682-5

TABLE 682.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 682, MARS STATION

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH877	EXTERIOR WALL	TRANSITE PANEL BOARD	A	6.960E01	1	2	1	2	12	40.00	40
FH879	HEATER ROOM	INSULATION BOARD	A	6.960E01	1	2	1	2	12	40.00	45
FH878	HEATER ROOM	EXPANSION JOINTS	A	2.520E01	1	2	1	2	12	40.00	20
FH881	EXTERIOR WALL	TRANSITE PANEL BOARD	A	8.250E00	2	2	1	1	1	1.00	50
FH880	EXT STACK ABOVE FLUE	INSULATION BOARD	A	3.000E00	2	2	1	1	1	1.00	20
FH870	CORRIDORS & STUDIOS	CEILING TILE	A	0	1	2	1	2	12	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 682.5

COST ESTIMATE* - BUILDING 682, MARS STATION

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	TOTAL
Pipe Fittings (EA)							
<4"	70.30	-	-	-	-	-	-
4-8"	85.80	-	-	-	-	-	-
9-14"	146.70	-	-	-	-	-	-
>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	11.4	-	-	-	-	11.4
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-
Other		-	0.2	0.3	1.0	1.0	2.5
SUBTOTAL		11.4	0.2	0.3	1.0	1.0	13.9
Difficulty Allowance		-	0.5	-	0.5	-	1.0
SUBTOTAL		11.4	0.7	0.3	1.5	1.0	14.9
Decontamination Units		1.2	1.2	1.2	1.2	1.2	6.0
Mobilization		0.4	0.4	0.4	0.4	0.4	2.0
SUBTOTAL		13.0	2.3	1.9	3.1	2.6	22.9
Contingency @ 15.00%		1.9	0.3	0.3	0.5	0.4	3.4
SUBTOTAL		14.9	2.6	2.2	3.5	3.0	26.3
Design Fee @ 10.00%		1.5	0.3	0.2	0.4	0.3	2.6
SUBTOTAL		16.4	2.9	2.4	3.9	3.3	29.0
Air Monitoring @ 10.00%***		0.6	0.6	0.6	0.6	0.6	2.9
TOTAL		17.0	3.5	3.0	4.5	3.9	31.9

* 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: CORRIDORS & STUDIOS
 AREA 3: EXT WALL HEATER RM.
 AREA 5: HEATER ROOM

AREA 2: EXT STACK ABOVE FLUE
 AREA 4: EXTERIOR WALL

SECTION 682.4
PHOTOGRAPHS



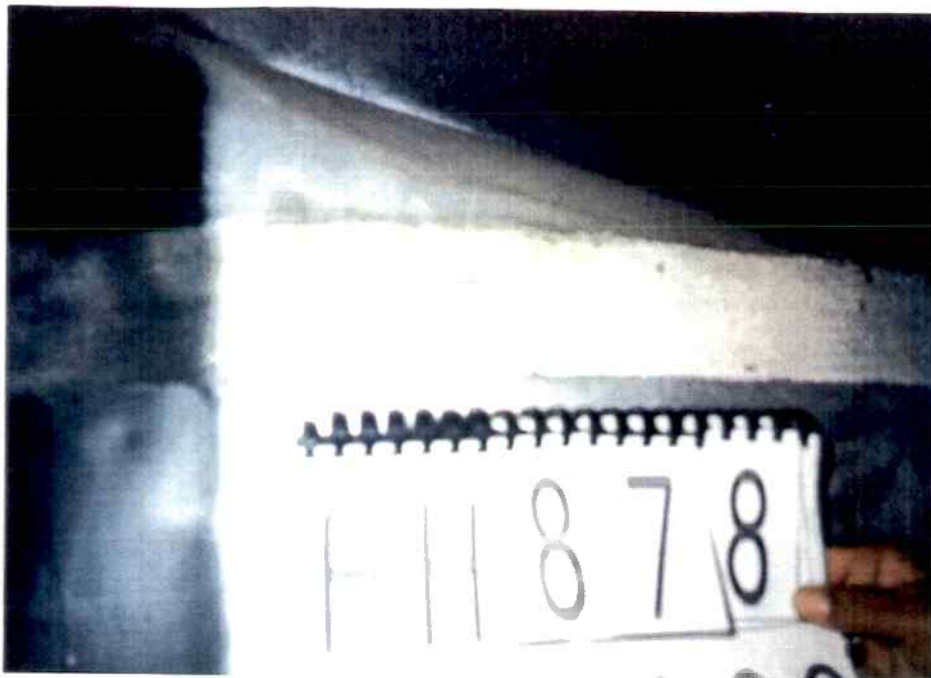
FLUE STACK: (SAMPLE FH880)
TAN EXTERIOR STACK INSULATION
TESTED POSITIVE.

BLDG. 682



HEATER ROOM EXTERIOR WALL:
(SAMPLE FH881) GRAY TRANSITE
PANEL TESTED POSITIVE.

BLDG. 682



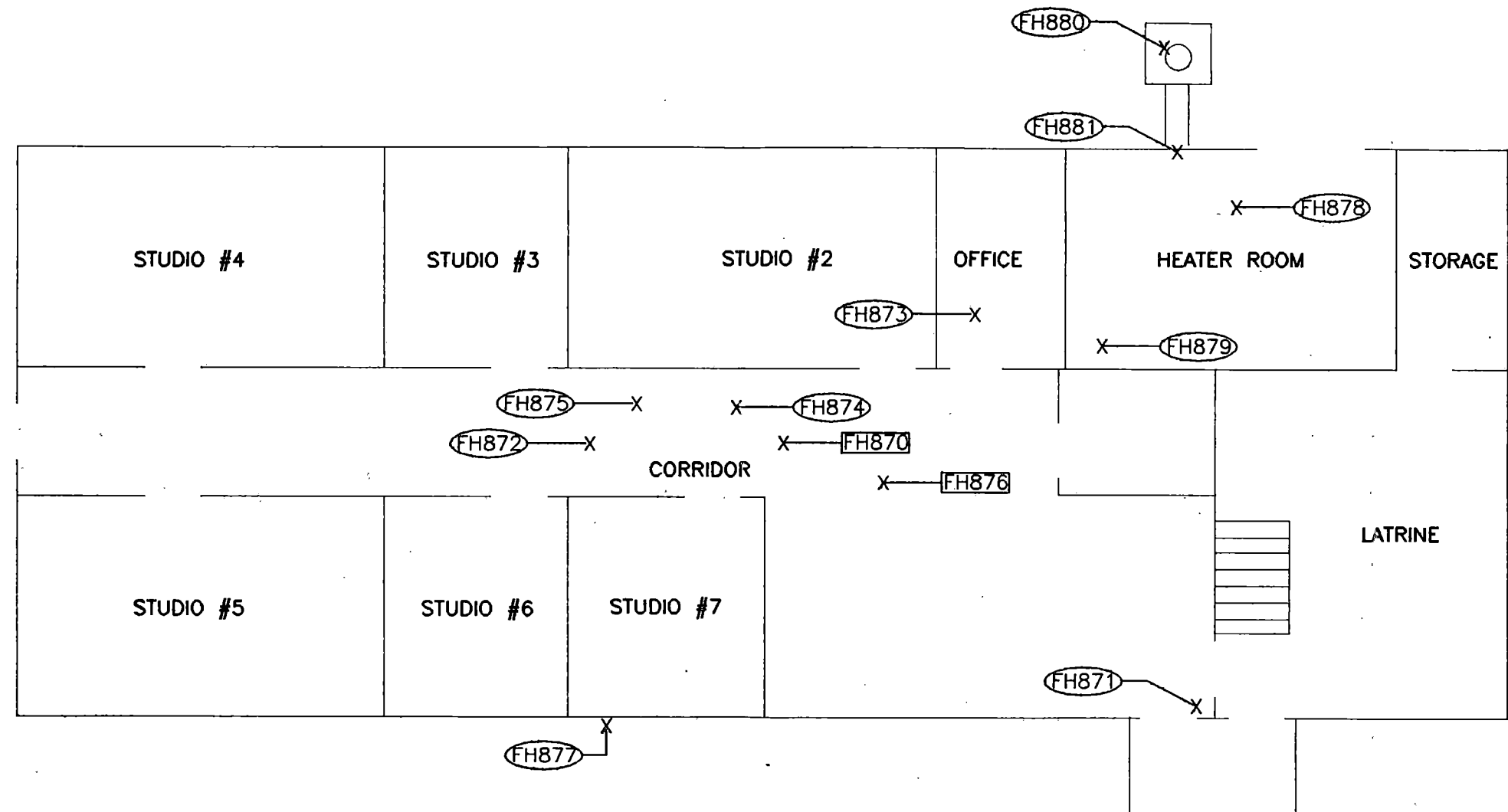
BLDG. 682

HEATER ROOM: (SAMPLE FH878) GRAY
FURNACE JOINT TESTED POSITIVE.



BLDG. 682

HEATER ROOM: (SAMPLE FH879) GRAY CORRUGATED
PAPER INSULATION TESTED POSITIVE.



FIRST FLOOR PLAN - BLDG. 682
NOT TO SCALE



LEGEND

FHnnn POSITIVE SAMPLE
 FHnnn NEGATIVE SAMPLE



689

689

BOWLING CENTER

BOWLING CENTER

689.1 GENERAL

Building 689 was surveyed by WESTON technicians on 10 June 1991.

The first three portions of this facility report summarize the results of this inspection. Photographs of some sample locations are provided in Section 689.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 19 samples of suspect material collected from the building. Of these samples, 8 were found to be asbestos-containing materials (ACM). Table 689.1 lists the analytical results for the bulk samples.

689.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 689 are presented in Table 689.1. An area-by-area inventory of ACM is provided in Tables 689.2 and 689.3. "Other Asbestos-Containing Materials," listed in Table 689.3, are materials that do not correspond to the standard caption categories listed in Table 689.2. A prioritized listing of exposure assessments is presented in Table 689.4. The method by which the exposure assessment priority index values are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.5 of the Guide Document that accompanies this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 689.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.4 of the Guide Document. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 689.2 and 689.5.

689.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

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

TABLE 689.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 689, BOWLING CENTER

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH953	BOWLING APPROACH	FLOOR TILE	BROWN,OTH,1X1 FLR TL	-	-	-	NO
FH954	BOWLING APPROACH	FLOOR TILE	BROWN,OTH,1X1 FLR TL	-	-	-	NO
FH955	BOWLING APPROACH	FLOOR TILE	BROWN,OTH,1X1 FLR TL	-	-	-	NO
FH956	MEN	CEILING TILE	WHITE,OTH,4X2 CL TL	-	-	-	YES
FH957	OPEN BOWLING AREA	CEILING TILE	WHITE,OTH,4X2 CL TL	-	-	-	YES
FH958	MEN	CEILING TILE	WHITE,OTH,4X2 CL TL	-	-	-	YES
FH959	OPEN BOWLING AREA	CEILING TILE	WHITE,OTH,4X2 CL TL	-	-	-	YES
FH960	OFFICE	FLOOR TILE	GRAY,OTH,9X9 FL TL	7	-	-	YES
FH961	OFFICE	DUPLICATE SAMPLE	GRAY,OTH,9X9 FL TL	7	-	-	YES
FH962	KITCHEN AREA	FLOOR TILE	TAN,OTH,1X1 FL TL	5	-	1	NO
FH963	KITCHEN AREA	DUPLICATE SAMPLE	TAN,OTH,1X1 FL TL	5	-	1	NO
FH964	KITCHEN AREA	FLOOR TILE	GRAY,OTH,1X1 FL TL	-	-	-	NO
FH965	MECH. OFFICE	CEILING TILE	WHITE,OTH,CEIL. BRD.	-	-	-	NO
FH966	KITCHEN AREA	<4" PIPE FITTING	GRAY,UNK,<4" FITT.	35	-	-	NO
FH967	KITCHEN AREA	<4" PIPE FITTING	GRAY,UNK,<4" FITT.	25	-	-	NO
FH968	CLOSET	FLOOR TILE	BROWN,OTH,9X9 FL TL	2	-	1	YES
FH969	MECH ROOM	<4" PIPE FITTING	GRAY,UNK,<4" FITT.	10	-	-	NO
FH970	MECH ROOM	9-14" PIPE FITTING	WHITE,UNK,9-14" INS.	-	-	-	NO
FH971	MECH ROOM	DUPLICATE SAMPLE	WHITE,UNK,9-14" INS.	-	-	-	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 689.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 689, BOWLING 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"					
CLOSET	-	-	-	-	-	-	-	-	-	0.03	-	-	-
KITCHEN AREA	12	-	-	-	-	-	-	-	-	0.14	-	-	-
MECH ROOM	4	-	-	-	-	-	-	-	-	-	-	-	-
MEN/WOMEN ROOM	8	-	-	-	-	-	-	-	-	-	-	-	-
OFFICE	2	-	-	-	-	-	-	-	-	0.24	-	-	-
PRO-SHOP	6	-	-	-	-	-	-	-	-	-	-	-	-
TOTALS	32	-	-	-	-	-	-	-	-	0.40	-	-	-

* Other Material Present In Various Units Of Measure

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

Table 689.3

Other Asbestos-Containing Material - Building 689, Bowling Center
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

689-5

TABLE 689.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 689, BOWLING CENTER

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH966	KITCHEN AREA	<4" PIPE FITTING	A	7.400E01	2	1	1	1	400	20.00	35
FH966	MEN/WOMEN ROOM	<4" PIPE FITTING	A	7.400E01	2	1	1	1	400	20.00	35
FH966	OFFICE	<4" PIPE FITTING	A	7.400E01	2	1	1	1	400	20.00	35
FH966	PRO-SHOP	<4" PIPE FITTING	A	7.400E01	2	1	1	1	400	20.00	35
FH967	KITCHEN AREA	<4" PIPE FITTING	A	7.400E01	2	1	1	1	400	20.00	25
FH969	MECH ROOM	<4" PIPE FITTING	A	1.725E01	3	2	1	1	1	1.00	10
FH956	MEN	CEILING TILE	A	0	2	1	1	1	400	20.00	0
FH957	OPEN BOWLING AREA	CEILING TILE	A	0	2	1	1	1	400	20.00	0
FH958	MEN	CEILING TILE	A	0	2	1	1	1	400	20.00	0
FH959	OPEN BOWLING AREA	CEILING TILE	A	0	2	1	1	1	400	20.00	0
FH965	MECH. OFFICE	CEILING TILE	A	0	2	1	1	1	400	20.00	0
FH970	MECH ROOM	9-14" PIPE FITTING	A	0	3	2	1	1	1	1.00	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 689.5

COST ESTIMATE* - BUILDING 689, BOWLING CENTER

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6	TOTAL
Pipe Fittings (EA)								
<4"	70.30	-	0.8	0.3	0.6	0.1	0.4	2.2
4-8"	85.80	-	-	-	-	-	-	-
9-14"	146.70	-	-	-	-	-	-	-
>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	0.1	0.8	-	-	1.3	-	2.3
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
SUBTOTAL		0.1	1.6	0.3	0.6	1.5	0.4	4.5
Difficulty Allowance		-	1.7	0.1	1.1	0.3	0.8	4.1
SUBTOTAL		0.1	3.3	0.4	1.7	1.8	1.3	8.6
Decontamination Units Mobilization		0.5	0.5	0.5	0.5	0.5	0.5	3.0
		0.3	0.3	0.3	0.3	0.3	0.3	2.0
SUBTOTAL		1.0	4.1	1.3	2.5	2.6	2.1	13.6
Contingency @ 15.00%		0.1	0.6	0.2	0.4	0.4	0.3	2.0
SUBTOTAL		1.1	4.8	1.4	2.9	3.0	2.4	15.6
Design Fee @ 10.00%		0.1	0.5	0.1	0.3	0.3	0.2	1.6
SUBTOTAL		1.2	5.2	1.6	3.2	3.3	2.7	17.2
Air Monitoring @ 10.00%***		0.3	0.3	0.3	0.3	0.3	0.3	1.7
TOTAL		1.5	5.5	1.9	3.5	3.6	2.9	18.9

* 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: CLOSET
 AREA 3: MECH ROOM
 AREA 5: OFFICE

AREA 2: KITCHEN AREA
 AREA 4: MEN/WOMEN ROOM
 AREA 6: PRO-SHOP

SECTION 689.4
PHOTOGRAPHS



BLDG. 689

OFFICE: (SAMPLE FH960) GRAY 9" X 9" FLOOR
TILE TESTED POSITIVE.



BLDG. 689

KITCHEN AREA: (SAMPLE FH962) TAN 1' X 1'
FLOOR TILE TESTED POSITIVE.



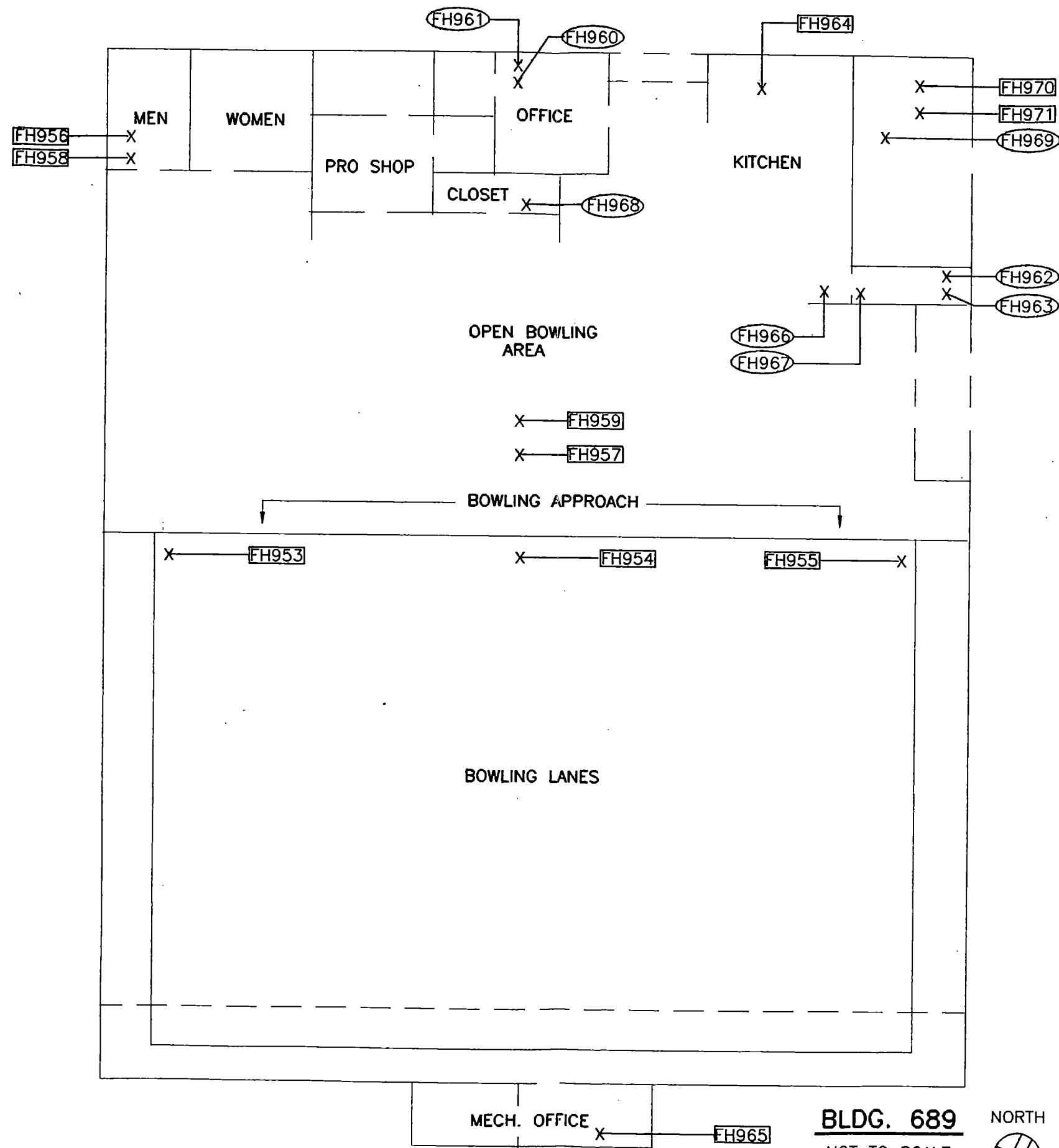
BLDG. 689

KITCHEN AREA: (SAMPLE FH966) GRAY <4" PIPE FITTING INSULATION TESTED POSITIVE. THIS SAME PIPE FITTING INSULATION IS ALSO PRESENT IN THE PRO SHOP, OFFICE, AND MEN'S/WOMEN'S ROOMS.



MECHANICAL ROOM: (SAMPLE FH969) GRAY <4" PIPE FITTING INSULATION TESTED POSITIVE.

BLDG. 689



697

697

INCINERATOR BUILDING

INCINERATOR BUILDING

697.1 GENERAL

Building 697 was surveyed by WESTON technicians on 5 June 1991.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 3 samples of suspect material collected from the building. All 3 samples were found to be non-asbestos-containing materials (non-ACM). Table 205.1 lists the analytical results for the bulk samples.

The location, description, and analytical results for each bulk sample from Building 697 are presented in Table 697.1. Building floor plan (see attachment) indicates sample locations.

697.2 CONCLUSIONS

According to the survey and the laboratory results of the samples collected in Building 697, WESTON concludes that Building 697 is an asbestos-free building.

TABLE 697.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 697, INCINERATOR BLDG.

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH882	INCINERATOR STACK	BOILERS/TANKS	GRAY,OTH,STACK MAT.	-	-	-	NO
FH883	INCINERATOR GASKET	BOILERS/TANKS	GRAY,OTH,GASKETS	-	-	-	NO
FH884	INCINERATOR LINING	BOILERS/TANKS	GRAY,OTH,INCIN LIN.	-	-	-	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 697.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 697, INCINERATOR BLDG.

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 697.3

Other Asbestos-Containing Material - Building 697, Incinerator Building
Type Occupancy: Adults (Public)

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

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

697-4

TABLE 697.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 697, INCINERATOR BLDG.

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH882	INCINERATOR STACK	BOILERS/TANKS	A	0	2	2	2	1	1	1.00	0
FH883	INCINERATOR GASKET	BOILERS/TANKS	A	0	2	2	2	1	1	1.00	0
FH884	INCINERATOR LINING	BOILERS/TANKS	A	0	2	2	2	1	1	1.00	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

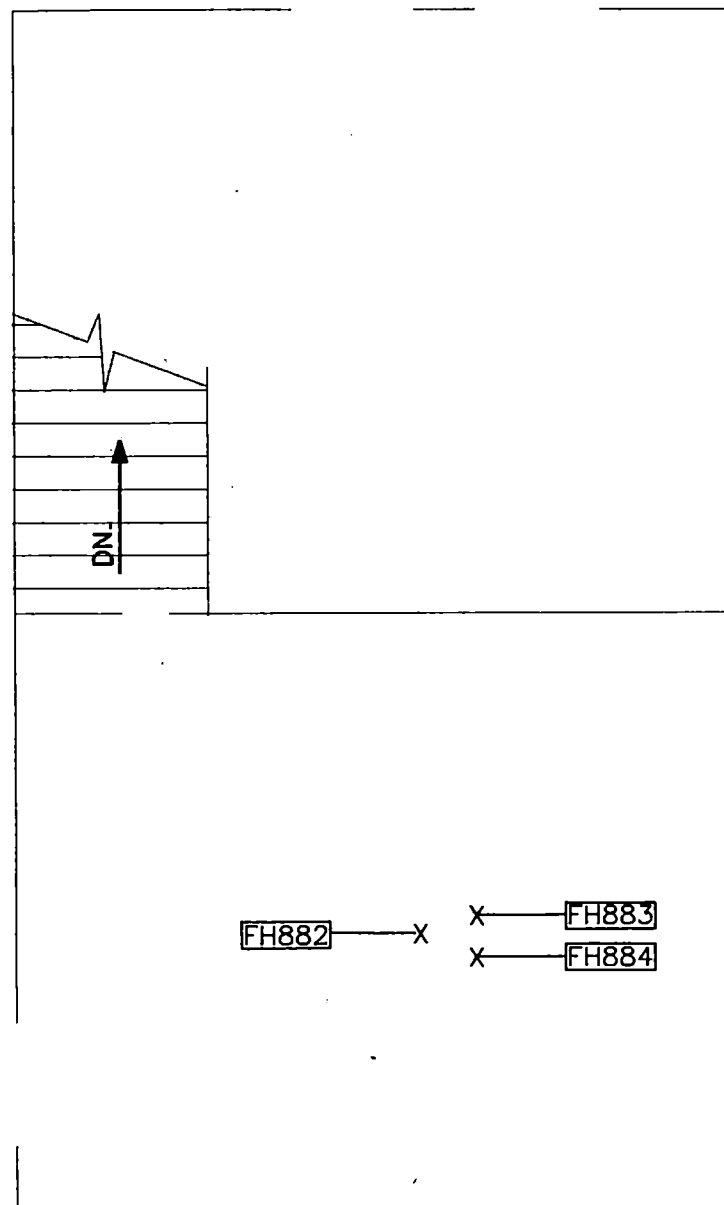
Exposure Factors

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

TABLE 697.5

COST ESTIMATE* - BUILDING 697, INCINERATOR BLDG.

No Asbestos Containing Material Detected In This Building



BLDG. 697
NOT TO SCALE



707

707
ADMINISTRATION BUILDING

ADMINISTRATION BUILDING

707.1 GENERAL

Building 205 was surveyed by WESTON technicians on 4 June 1991.

The first three portions of this facility report summarize the results of this inspection. Photographs of some sample locations are provided in Section 707.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 8 samples of suspect material collected from the building. Of these samples, 4 were found to be asbestos-containing materials (ACM). Table 707.1 lists the analytical results for the bulk samples.

707.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 707 are presented in Table 707.1. An area-by-area inventory of ACM is provided in Tables 707.2 and 707.3. "Other Asbestos-Containing Materials," listed in Table 707.3, are materials that do not correspond to the standard caption categories listed in Table 707.2. A prioritized listing of exposure assessments is presented in Table 707.4. The method by which the exposure assessment priority index values are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.5 of the Guide Document that accompanies this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 707.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.4 of the Guide Document. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 707.2 and 707.5.

707.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- Asbestos-containing floor tile, expansion joint, and transite panel should be labeled under the O&M Program.

TABLE 707.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 707, ADMINISTRATION BLDG.

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH845	ROOM 1	ACOUSTICAL WALL TILE	WHITE,OTH,ACOUS.WALL	-	-	-	YES
FH846	ROOM 2	ACOUSTICAL WALL TILE	YELLOW,OTH,ACOUS.WALL	-	-	-	YES
FH847	ROOM 3	ACOUSTICAL WALL TILE	WHITE,OTH,ACOUS.WALL	-	-	-	YES
FH848	CORR./MEETING AREA	OTHER MATERIAL	BROWN,OTH,FL STRIPS	10	-	-	YES
FH849	RESTROOM	FLOOR TILE	GREEN,OTH,9X9 FL TL	5	-	-	NO
FH850	CORRIDOR	ACOUSTICAL WALL TILE	WHITE,OTH,ACOUS TILE	-	-	-	NO
FH851	HEATER ROOM	EXPANSION JOINT(S)	WHITE,OTH,EXP. JOINT	40	-	-	NO
FH852	HEATER ROOM	TRANSITE PANEL BOARD	WHITE,OTH,TRAN PANEL	50	-	-	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 707.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 707, ADMINISTRATION BLDG.

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"					
CORR./MEETING AREA	-	-	-	-	-	-	-	-	-	-	-	-	*
EXTERIOR WALL	-	-	-	-	-	-	-	-	-	-	-	-	*
HEATER ROOM	-	-	-	-	-	-	-	-	-	-	-	-	*
RESTROOM	-	-	-	-	-	-	-	-	-	0.08	-	-	-
ROOM 1	-	-	-	-	-	-	-	-	-	-	-	-	*
ROOM 2	-	-	-	-	-	-	-	-	-	-	-	-	*
ROOM 3	-	-	-	-	-	-	-	-	-	-	-	-	*
TOTALS	-	-	-	-	-	-	-	-	-	0.08	-	-	*

* Other Material Present In Various Units Of Measure

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

Table 707.3

Other Asbestos-Containing Material - Building 707, Administration Building
Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
Heater Room	Transite Panel Board	0.035 (MSF)
Exterior Wall	Transite Panel Board	0.035 (MSF)
Heater Room	Expansion Joint	2 (EA)
Room 1	Floor Strips	0.510 (MSF)
Room 2	Floor Strips	0.496 (MSF)
Room 3	Floor Strips	0.432 (MSF)
Corr./Meet. Area	Floor Strips	1.0 (MSF)

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

707-5

TABLE 707.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 707, ADMINISTRATION BLDG.

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH851	HEATER ROOM	EXPANSION JOINTS	A	8.250E00	2	2	1	1	1	1.00	40
FH852	EXTERIOR WALL	CEILING BOARD	A	8.250E00	2	2	1	1	1	1.00	50
FH852	HEATER ROOM	CEILING BOARD	A	8.250E00	2	2	1	1	1	1.00	50
FH845	ROOM 1	ACOUSTICAL WALL TILE	A	0	1	3	1	2	40	6.00	0
FH846	ROOM 2	ACOUSTICAL WALL TILE	A	0	1	3	1	2	40	6.00	0
FH847	ROOM 3	ACOUSTICAL WALL TILE	A	0	1	3	1	2	40	6.00	0
FH850	CORRIDOR	ACOUSTICAL WALL TILE	A	0	1	3	1	2	40	6.00	0
FH850	MEETING AREA	ACOUSTICAL WALL TILE	A	0	1	3	1	2	40	6.00	0
FH850	RESTROOM	ACOUSTICAL WALL TILE	A	0	1	3	1	2	40	6.00	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 707.5

COST ESTIMATE* - BUILDING 707, ADMINISTRATION BLDG.

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6	AREA 7	TOTAL
Pipe Fittings (EA)									
<4"	70.30	-	-	-	-	-	-	-	-
4-8"	85.80	-	-	-	-	-	-	-	-
9-14"	127.00	-	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-
Pipe Runs (LF)									
<4"	26.50	-	-	-	-	-	-	-	-
4-8"	30.50	-	-	-	-	-	-	-	-
9-14"	22.50	-	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	-	-	-	0.4	-	-	-	0.4
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-
Other		2.4	0.4	1.0	-	0.6	0.6	0.5	5.4
SUBTOTAL		2.4	0.4	1.0	0.4	0.6	0.6	0.5	5.8
Difficulty Allowance		-	-	0.2	-	-	-	-	0.2
SUBTOTAL		2.4	0.4	1.2	0.4	0.6	0.6	0.5	6.0
Decontamination Units		0.4	0.4	0.4	0.4	0.4	0.4	0.4	3.0
Mobilization		0.3	0.3	0.3	0.3	0.3	0.3	0.3	2.0
SUBTOTAL		3.1	1.1	1.9	1.1	1.3	1.3	1.2	11.0
Contingency @ 15.00%		0.5	0.2	0.3	0.2	0.2	0.2	0.2	1.6
SUBTOTAL		3.6	1.3	2.2	1.3	1.5	1.5	1.4	12.6
Design Fee @ 10.00%		0.4	0.1	0.2	0.1	0.1	0.1	0.1	1.3
SUBTOTAL		4.0	1.4	2.4	1.4	1.6	1.6	1.5	13.9
Air Monitoring @ 10.00%***		0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.4
TOTAL		4.2	1.6	2.6	1.6	1.8	1.8	1.7	15.3

* Amounts Are In Thousands Of Dollars

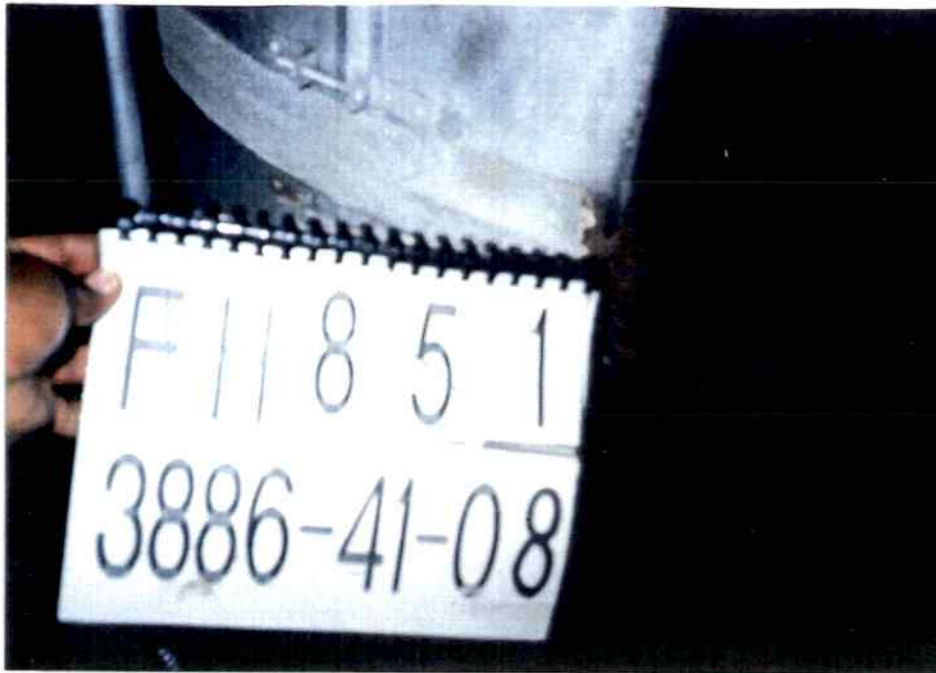
** Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

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

AREA 1: CORR /MEETING AREA
 AREA 3: HEATER ROOM
 AREA 5: ROOM 1
 AREA 7: ROOM 3

AREA 2: EXTERIOR WALL
 AREA 4: RESTROOM
 AREA 6: ROOM 2

SECTION 707.4
PHOTOGRAPHS



BLDG. 707

HEATER ROOM: (SAMPLE FH851) WHITE EXPANSION
JOINT TESTED POSITIVE.



BLDG. 707

HEATER ROOM: (SAMPLE FH852) WHITE TRANSITE
PANELBOARD TESTED POSITIVE.



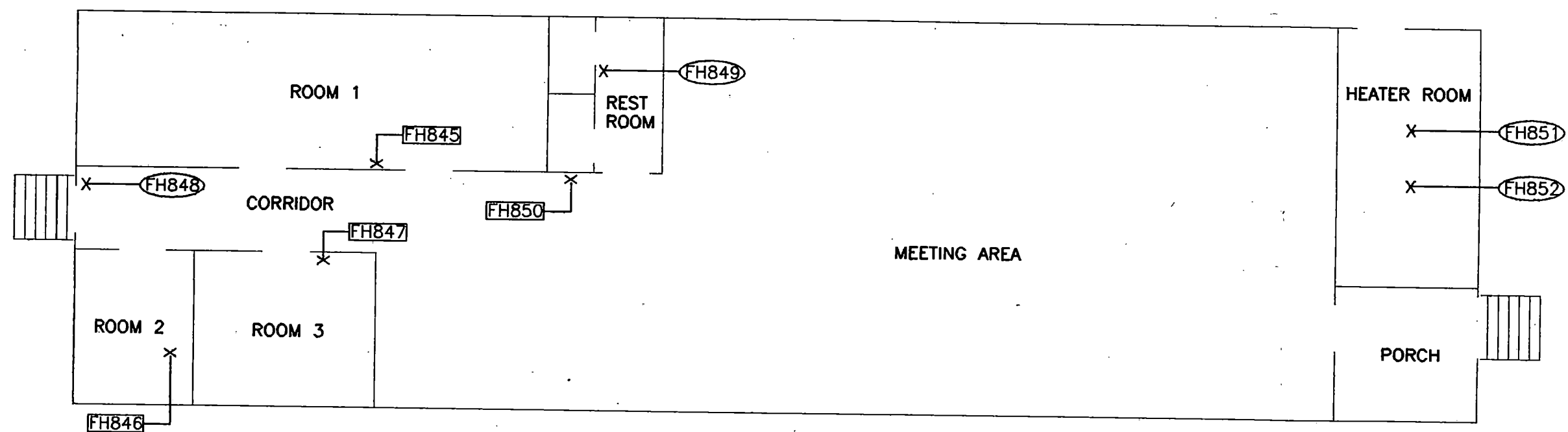
BLDG. 707

ENTIRE FIRST FLOOR: (SAMPLE FH848) BROWN
FLOORING STRIPS TESTED POSITIVE.



BLDG. 707

RESTROOM: (SAMPLE FH849) GREEN 9" X 9"
FLOOR TILE TESTED POSITIVE.



BLDG. 707
NOT TO SCALE



LEGEND

FHnnn POSITIVE SAMPLE
FHnnn NEGATIVE SAMPLE



743

743

ADMINISTRATION BUILDING

ADMINISTRATION BUILDING

743.1 GENERAL

Building 743 was surveyed by WESTON technicians on 7 June 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, 4 were found to be asbestos-containing materials (ACM). Table 743.1 lists the analytical results for the bulk samples.

743.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 743 are presented in Table 743.1. An area-by-area inventory of ACM is provided in Tables 743.2 and 743.3. "Other Asbestos-Containing Materials," listed in Table 743.3, are materials that do not correspond to the standard caption categories listed in Table 743.2. A prioritized listing of exposure assessments is presented in Table 743.4. The method by which the exposure assessment priority index values are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.5 of the Guide Document that accompanies this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 743.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.4 of the Guide Document. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 743.2 and 743.5.

743.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

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

TABLE 743.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 743, ADMINISTRATION BLDG.

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH947	OFFICE 1	FLOOR TILE	BROWN,OTH,9X9 FL TL	7	-	-	YES
FH948	OFFICE 1	FLOOR TILE	TAN,OTH,9X9 FL TL	7	-	-	YES
FH949	OPEN OFFICE	BOILERS/TANKS	WHITE,OTH,INSULATION	-	-	-	YES
FH950	LATRINE	FLOOR TILE	GREEN,OTH,9X9 FL TL	7	-	-	NO
FH951	LATRINE	FLOOR TILE	BROWN,OTH,9X9 FL TL	10	-	-	YES
FH952	CORRIDOR	FLOOR TILE	BROWN,OTH,FLOORING	-	-	-	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 743.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 743, ADMINISTRATION BLDG.

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"					
LATRINE	-	-	-	-	-	-	-	-	-	0.03	-	-	-
OFFICE 1	-	-	-	-	-	-	-	-	-	0.45	-	-	-
TOTALS	-	-	-	-	-	-	-	-	-	0.48	-	-	-

* Other Material Present In Various Units Of Measure

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

Table 743.3

Other Asbestos-Containing Material - Building 743, 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

743-5

TABLE 743.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 743, ADMINISTRATION BLDG.

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH949	OPEN OFFICE	BOILERS/TANKS	A	0	1	1	2	1	1	1.00	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 743.5

COST ESTIMATE* - BUILDING 743, ADMINISTRATION BLDG.

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	TOTAL
Pipe Fittings (EA)				
<4"	70.30	-	-	-
4-8"	85.80	-	-	-
9-14"	146.70	-	-	-
>14"	216.00	-	-	-
Pipe Runs (LF)				
<4"	26.50	-	-	-
4-8"	30.20	-	-	-
9-14"	42.30	-	-	-
>14"	60.80	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-
Floor Tile (SF)	5.60	0.2	2.5	2.7
Boilers/Tanks (SF)	37.90	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-
Other		-	-	-
SUBTOTAL		0.2	2.5	2.7
Difficulty Allowance		-	-	-
SUBTOTAL		0.2	2.5	2.7
Decontamination Units		1.5	1.5	3.0
Mobilization		1.0	1.0	2.0
SUBTOTAL		2.7	5.0	7.7
Contingency @ 15.00%		0.4	0.8	1.2
SUBTOTAL		3.1	5.8	8.8
Design Fee @ 10.00%		0.3	0.6	0.9
SUBTOTAL		3.4	6.4	9.7
Air Monitoring @ 10.00%***		0.5	0.5	1.0
TOTAL		3.9	6.8	10.7

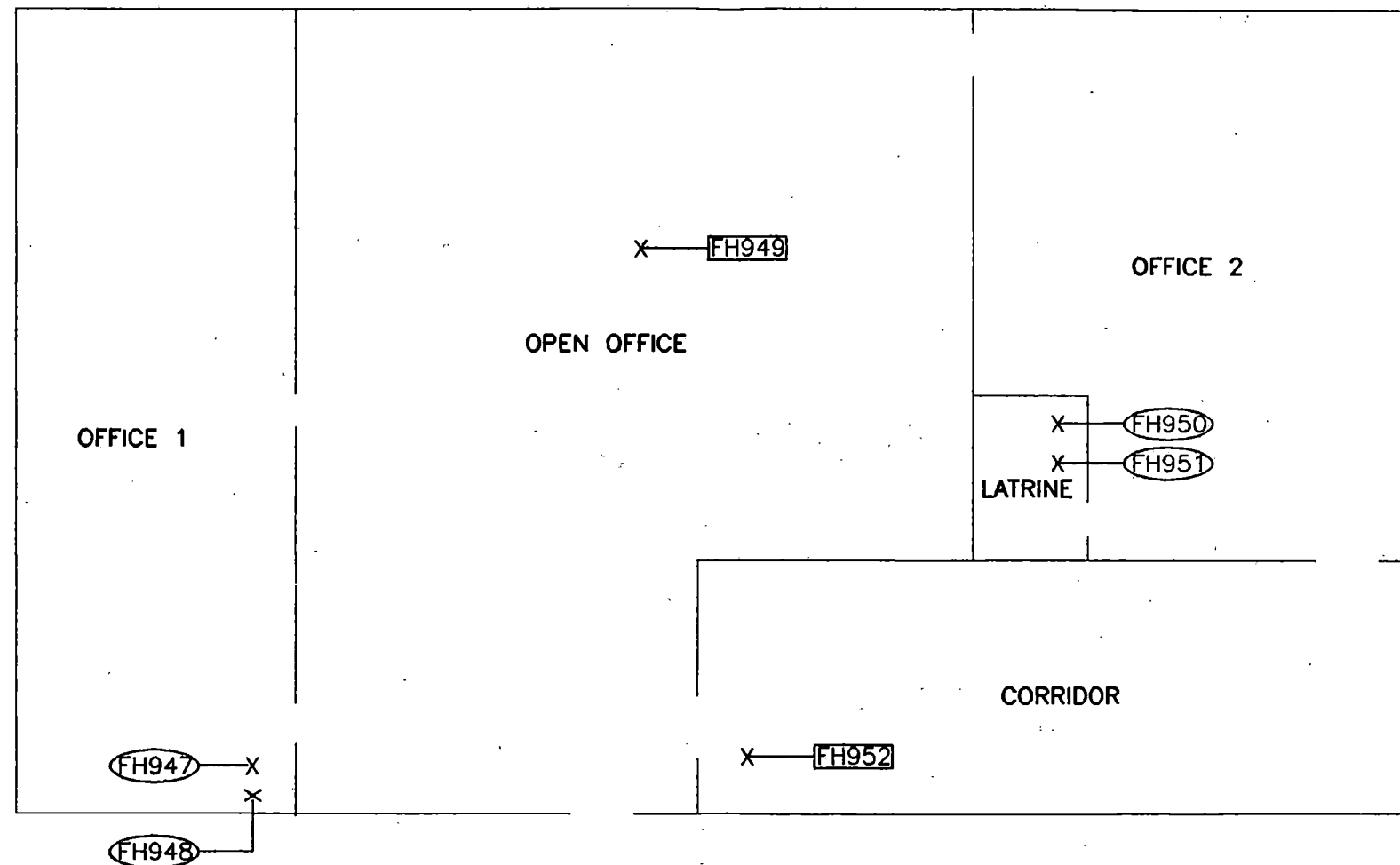
* Amounts Are In Thousands Of Dollars

** 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: LATRINE

AREA 2: OFFICE 1



BLDG. 743
NOT TO SCALE



LEGEND

POSITIVE SAMPLE
 NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

746

746

ADMINISTRATION BUILDING

ADMINISTRATION BUILDING

746.1 GENERAL

Building 205 was surveyed by WESTON technicians on 7 June 1991.

The first three portions of this facility report summarize the results of this inspection. Photographs of some sample locations are provided in Section 746.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 7 samples of suspect material collected from the building. Of these samples, 4 were found to be asbestos-containing materials (ACM). Table 746.1 lists the analytical results for the bulk samples.

746.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 746 are presented in Table 746.1. An area-by-area inventory of ACM is provided in Tables 746.2 and 746.3. "Other Asbestos-Containing Materials," listed in Table 746.3, are materials that do not correspond to the standard caption categories listed in Table 746.2. A prioritized listing of exposure assessments is presented in Table 746.4. The method by which the exposure assessment priority index values are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.5 of the Guide Document that accompanies this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 746.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.4 of the Guide Document. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 746.2 and 746.5.

746.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

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

TABLE 746.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 746, ADMINISTRATION BLDG.

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH932	GENERAL OFFICE 103	CEILING TILE	WHITE,OTH,4X2 CL TL	-	-	-	YES
FH933	GENERAL OFFICE 103	CEILING TILE	WHITE,OTH,4X2 CL TL	-	-	-	YES
FH934	GENERAL OFFICE 103	CEILING TILE	WHITE,OTH,4X2 CL TL	-	-	-	NO
FH935	CORRIDOR	FLOOR TILE	TAN,OTH,1X1 FL TL	-	-	1	YES
FH936	WOMENS LOUNGE 104	FLOOR TILE	TAN,OTH,1X1 FL TL	-	-	1	YES
FH937	GENERAL OFFICE 103	DUPLICATE SAMPLE	TAN,OTH,1X1 FL TL	-	-	1	NO
FH938	EXTERIOR WALL	TRANSITE PANEL BOARD	GRAY,OTH,TRAN PANEL	40	-	-	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 746.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 746, ADMINISTRATION BLDG.

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	-	-	-	-	-	-	-	-	-	0.30	-	-	-
ENTIRE SECOND FLOOR	-	-	-	-	-	-	-	-	-	2.25	-	-	-
EXTERIOR WALL	-	-	-	-	-	-	-	-	-	-	-	-	*
OFFICES 101,102,103	-	-	-	-	-	-	-	-	-	1.60	-	-	-
WOMENS LOUNGE 104	-	-	-	-	-	-	-	-	-	0.10	-	-	-
TOTALS	-	-	-	-	-	-	-	-	-	4.25	-	-	*

* Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

Table 746.3

**Other Asbestos-Containing Material - Building 746, Administration Building
Type Occupancy: Adults (Public)**

Area	Material Type	Quantity (Unit)
Exterior Wall	Transite Panel	0.260 (MSF)

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

746-5

TABLE 746.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 746, ADMINISTRATION BLDG.

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH938	EXTERIOR WALL	TRANSITE PANEL BOARD	A	6.820E-2	1	1	1	1	22	40.00	40
FH932	ENTIRE SECOND FLOOR	CEILING TILE	A	0	1	1	1	1	22	40.00	0
FH932	GENERAL OFFICE 103	CEILING TILE	A	0	1	1	1	1	22	40.00	0
FH932	MENS TOILET 109	CEILING TILE	A	0	1	1	1	1	22	40.00	0
FH932	OFFICES 101 & 102	CEILING TILE	A	0	1	1	1	1	22	40.00	0
FH932	WOMENS LOUNGE 104	CEILING TILE	A	0	1	1	1	1	22	40.00	0
FH932	WOMENS TOILET 107	CEILING TILE	A	0	1	1	1	1	22	40.00	0
FH933	GENERAL OFFICE 103	CEILING TILE	A	0	1	1	1	1	22	40.00	0
FH934	GENERAL OFFICE 103	CEILING TILE	A	0	1	1	1	1	22	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 746.5

COST ESTIMATE* - BUILDING 746, ADMINISTRATION BLDG.

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	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	1.7	12.6	-	9.0	0.6	23.8
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-
Other		-	-	2.9	-	-	2.9
SUBTOTAL		1.7	12.6	2.9	9.0	0.6	26.7
Difficulty Allowance		0.8	6.3	-	-	-	7.1
SUBTOTAL		2.5	18.9	2.9	9.0	0.6	33.8
Decontamination Units		1.2	1.2	1.2	1.2	1.2	6.0
Mobilization		0.4	0.4	0.4	0.4	0.4	2.0
SUBTOTAL		4.1	20.5	4.5	10.6	2.2	41.8
Contingency @ 15.00%		0.6	3.1	0.7	1.6	0.3	6.3
SUBTOTAL		4.7	23.6	5.1	12.1	2.5	48.1
Design Fee @ 10.00%		0.5	2.4	0.5	1.2	0.2	4.8
SUBTOTAL		5.2	25.9	5.6	13.4	2.7	52.9
Air Monitoring @ 10.00%***		1.1	1.1	1.1	1.1	1.1	5.3
TOTAL		6.3	27.0	6.7	14.4	3.8	58.2

* 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: CORRIDOR
 AREA 3: EXTERIOR WALL
 AREA 5: WOMENS LOUNGE 104

AREA 2: ENTIRE SECOND FLOOR
 AREA 4: OFFICES 101,102,103

SECTION 746.4
PHOTOGRAPHS



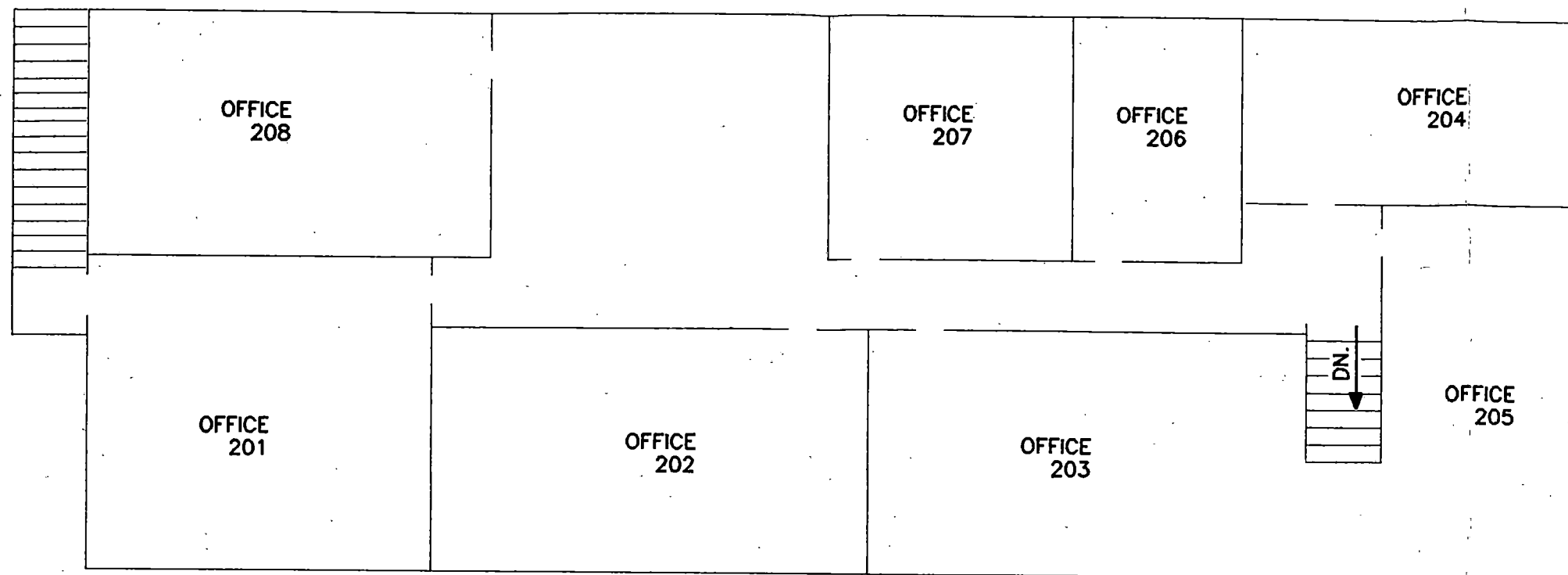
BLDG. 746

OFFICES 101 AND 102: (SAMPLE FH935) TAN 1' X 1' FLOOR TILE TESTED POSITIVE. THIS TAN 1' X 1' FLOOR TILE IS ALSO PRESENT IN GENERAL OFFICE 103 AND WOMEN'S LOUNGE 104.

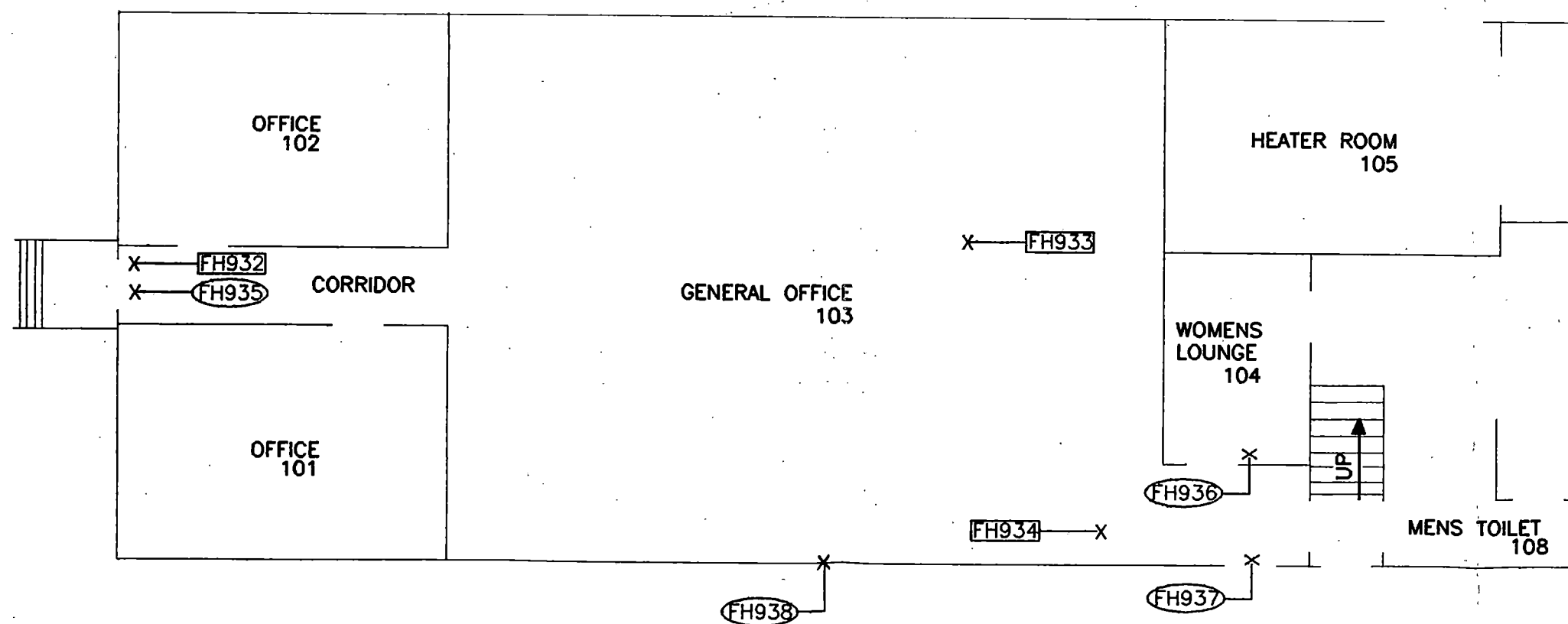


BLDG. 746

EXTERIOR WALLS: (SAMPLE FH938) GRAY TRANSITE PANEL TESTED POSITIVE.



SECOND FLOOR PLAN - BLDG. 746
NOT TO SCALE



FIRST FLOOR PLAN - BLDG. 746
NOT TO SCALE



LEGEND

(FHnnn) POSITIVE SAMPLE
[FHnnn] NEGATIVE SAMPLE



787

787

ADMINISTRATION BUILDING

ADMINISTRATION BUILDING

787.1 GENERAL

Building 787 was surveyed by WESTON technicians on 4 June 1991.

The first three portions of this facility report summarize the results of this inspection. Photographs of some sample locations are provided in Section 787.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 8 samples of suspect material collected from the building. Of these samples, 7 were found to be asbestos-containing materials (ACM). Table 787.1 lists the analytical results for the bulk samples.

787.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 787 are presented in Table 787.1. An area-by-area inventory of ACM is provided in Tables 787.2 and 787.3. "Other Asbestos-Containing Materials," listed in Table 787.3, are materials that do not correspond to the standard caption categories listed in Table 787.2. A prioritized listing of exposure assessments is presented in Table 787.4. The method by which the exposure assessment priority index values are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.5 of the Guide Document that accompanies this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 787.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.4 of the Guide Document. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 787.2 and 787.5.

787.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- Asbestos-containing floor tile, transite panel, and stack insulation should be labeled under the O&M Program.

TABLE 787.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 787, ADMINISTRATION BLDG.

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH837	OPEN OFFICE 1ST FL.	FLOOR TILE	TAN,OTH,1X1 FL TL	1	-	-	YES
FH838	STORAGE	EXPANSION JOINT(S)	TAN,OTH,EXP. CLOTH	-	-	-	NO
FH839	STORAGE	FLOOR TILE	TAN,OTH,1X1 FL TL	3	-	-	YES
FH840	STORAGE	FLOOR TILE	TAN,OTH,1X1 FL TL	5	-	-	NO
FH841	OPEN OFFICE 2ND FL.	FLOOR TILE	TAN,OTH,1X1 FL TL	2	-	-	NO
FH842	BOILER ROOM	TRANSITE PANEL BOARD	TAN,OTH,TRAN.PANEL	50	-	-	NO
FH843	EXT SIDING	TRANSITE PANEL BOARD	BROWN,OTH,EXT SIDING	40	-	-	YES
FH844	EXT STACK	TRANSITE PANEL BOARD	TAN,OTH,INS. STACK	25	-	-	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 787.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 787, ADMINISTRATION BLDG.

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"					
BOILER ROOM	-	-	-	-	-	-	-	-	-	-	-	-	*
EXT SIDING	-	-	-	-	-	-	-	-	-	-	-	-	*
EXT STACK	-	-	-	-	-	-	-	-	-	-	-	-	*
OPEN OFFICE 1ST FL.	-	-	-	-	-	-	-	-	-	2.50	-	-	-
OPEN OFFICE 2ND FL.	-	-	-	-	-	-	-	-	-	3.00	-	-	-
STORAGE	-	-	-	-	-	-	-	-	-	0.09	-	-	-
TOTALS	-	-	-	-	-	-	-	-	-	5.59	-	-	*

* Other Material Present In Various Units Of Measure

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

Table 787.3

**Other Asbestos-Containing Material - Building 787, Administration Building
Type Occupancy: Adults (Public)**

Area	Material Type	Quantity (Unit)
Boiler Room	Transite Ceiling Board	0.075 (MSF)
Exterior Siding	Transite Panel Board	3.025 (MSF)
Exterior Flue Stack	Stack Insulation	0.151 (MSF)

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

787-5

TABLE 787.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 787, ADMINISTRATION BLDG.

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH842	BOILER ROOM	TRANSITE PANEL BOARD	A	3.720E-2	1	1	1	1	12	40.00	50
FH842	EXT SIDING	TRANSITE PANEL BOARD	A	3.720E-2	1	1	1	1	12	40.00	50
FH843	EXT SIDING	TRANSITE PANEL BOARD	A	3.720E-2	1	1	1	1	12	40.00	40
FH844	EXT STACK	TRANSITE PANEL BOARD	A	1.320E-2	1	1	1	1	12	40.00	25
FH838	BOILER ROOM	EXPANSION JOINTS	A	0	1	1	1	1	12	40.00	0
FH838	STORAGE	EXPANSION JOINTS	A	0	1	1	1	1	12	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 787.5

COST ESTIMATE* - BUILDING 787, ADMINISTRATION BLDG.

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6	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	-	-	-	14.0	16.8	0.5	31.3
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-
Other		0.8	33.3	1.7	-	-	-	35.8
SUBTOTAL		0.8	33.3	1.7	14.0	16.8	0.5	67.1
Difficulty Allowance		0.4	-	4.3	7.0	8.4	-	20.1
SUBTOTAL		1.2	33.3	6.0	21.0	25.2	0.5	87.3
Decontamination Units		0.5	0.5	0.5	0.5	0.5	0.5	3.0
Mobilization		0.3	0.3	0.3	0.3	0.3	0.3	2.0
SUBTOTAL		2.1	34.1	6.9	21.8	26.0	1.3	92.3
Contingency @ 15.00%		0.3	5.1	1.0	3.3	3.9	0.2	13.8
SUBTOTAL		2.4	39.2	7.9	25.1	29.9	1.5	106.1
Design Fee @ 10.00%		0.2	3.9	0.8	2.5	3.0	0.2	10.6
SUBTOTAL		2.6	43.1	8.7	27.6	32.9	1.7	116.7
Air Monitoring @ 10.00%***		1.9	1.9	1.9	1.9	1.9	1.9	11.7
TOTAL		4.6	45.1	10.6	29.6	34.9	3.6	128.4

* 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: BOILER ROOM
 AREA 3: EXT STACK
 AREA 5: OPEN OFFICE 2ND FL.

AREA 2: EXT SIDING
 AREA 4: OPEN OFFICE 1ST FL.
 AREA 6: STORAGE

SECTION 787.4
PHOTOGRAPHS



BLDG. 787

EXTERIOR STACK: (SAMPLE FH844) TAN STACK
INSULATION TESTED POSITIVE.



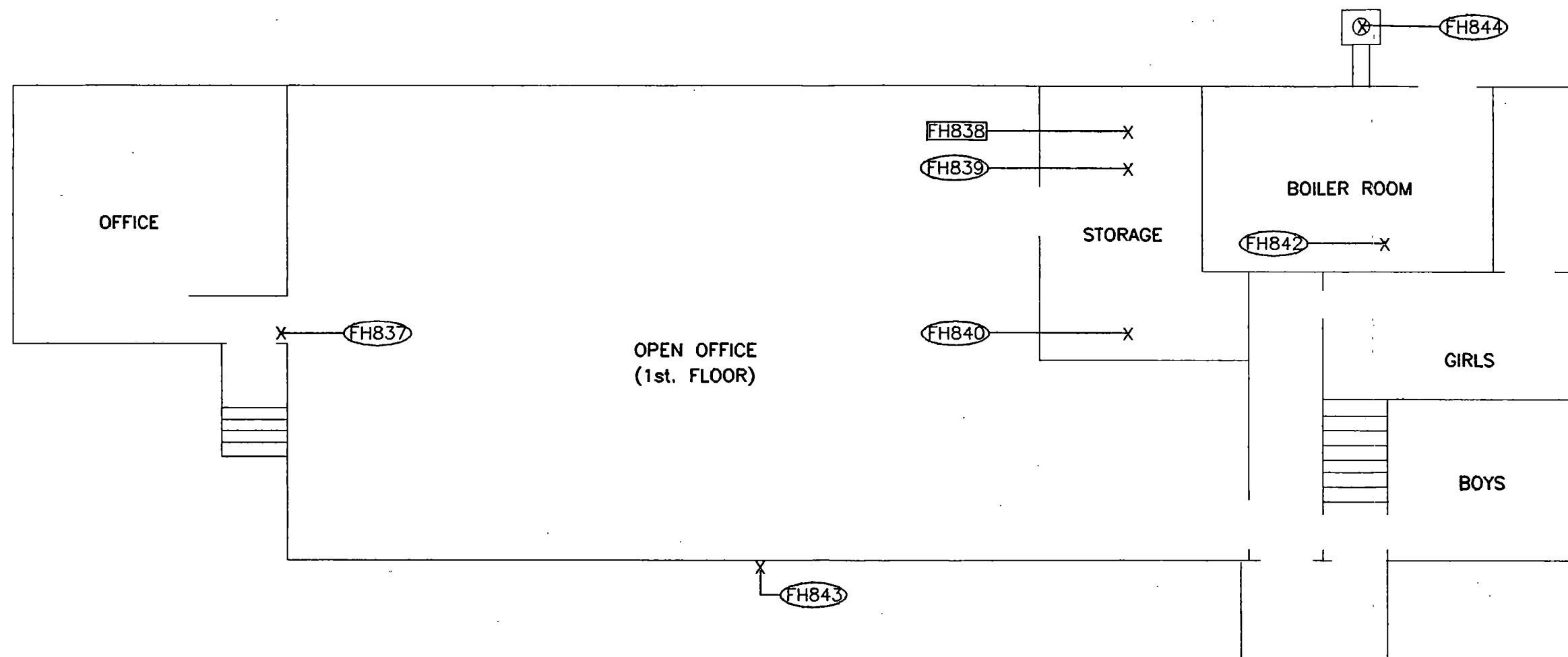
BLDG. 787

STORAGE: (SAMPLE FH840) TAN 1' X 1' FLOOR TILE TESTED POSITIVE. THIS FLOOR TILE IS ALSO PRESENT IN OPEN OFFICE 1ST FLOOR AND OPEN OFFICE 2ND FLOOR.



BLDG. 787

EXTERIOR SIDING: (SAMPLE FH843) BROWN TRANSITE PANEL BOARD TESTED POSITIVE.

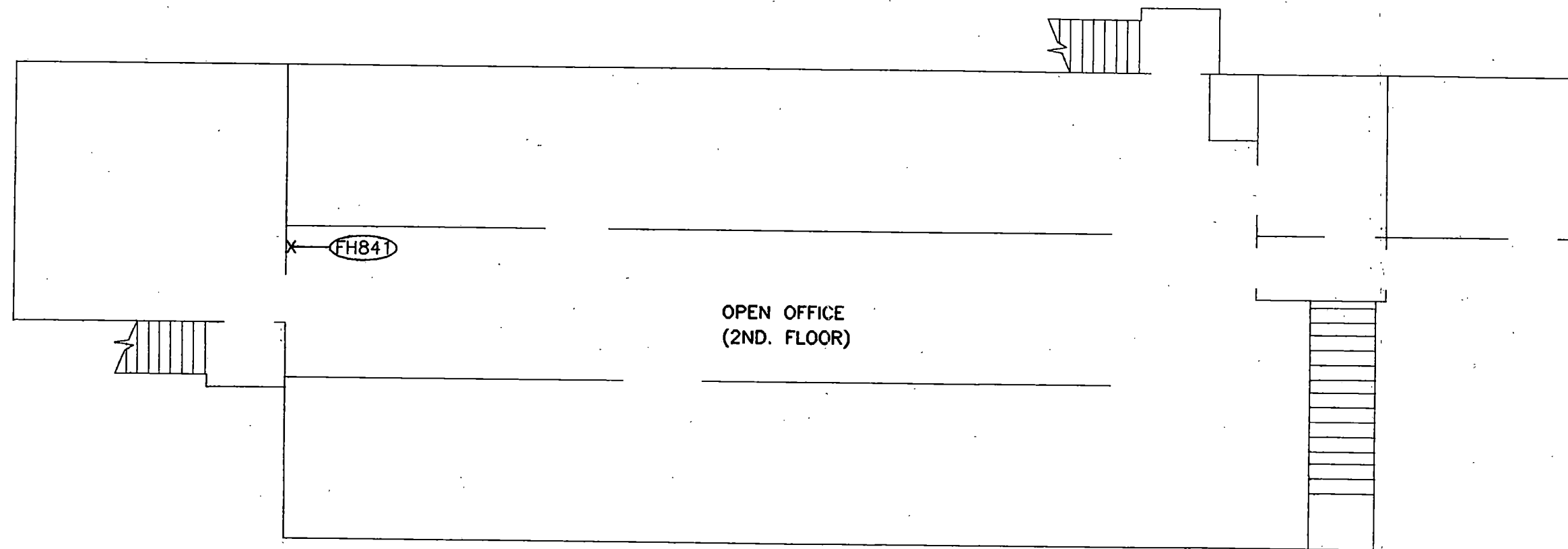


FIRST FLOOR PLAN – BLDG. 787
NOT TO SCALE

LEGEND

FHnnn POSITIVE SAMPLE
FHnnn NEGATIVE SAMPLE





SECOND FLOOR PLAN - BLDG. 787
NOT TO SCALE

LEGEND

(FHnnn) POSITIVE SAMPLE
(FHnnn) NEGATIVE SAMPLE

800

800

EXCHANGE SERVICE OUTLET

EXCHANGE SERVICE OUTLET

800.1 GENERAL

Building 800 was surveyed by WESTON technicians on 7 June 1991.

The first three portions of this facility report summarize the results of this inspection. Photographs of some sample locations are provided in Section 800.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 17 samples of suspect material collected from the building. Of these samples, 9 were found to be asbestos-containing materials (ACM). Table 800.1 lists the analytical results for the bulk samples.

800.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 800 are presented in Table 800.1. An area-by-area inventory of ACM is provided in Tables 800.2 and 800.3. "Other Asbestos-Containing Materials," listed in Table 800.3, are materials that do not correspond to the standard caption categories listed in Table 800.2. A prioritized listing of exposure assessments is presented in Table 800.4. The method by which the exposure assessment priority index values are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.5 of the Guide Document that accompanies this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 800.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.4 of the Guide Document. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 800.2 and 800.5.

800.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

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

TABLE 800.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 800, EXCHANGE SERVICE

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH915	OUTDOOR SALES AREA	CEILING TILE	WHITE,OTH,CEILING	-	-	-	YES
FH916	SALES AREA	CEILING TILE	WHITE,OTH,CEILING	-	-	-	YES
FH917	SALES AREA	CEILING TILE	WHITE,OTH,CEILING	-	-	-	YES
FH918	OFFICE 1	FLOOR TILE	TAN,OTH,1X1 FL TL	-	-	-	YES
FH919	STORAGE	FLOOR TILE	TAN,OTH,1X1 FL TL	-	-	-	NO
FH920	OUTDOOR SALES AREA	FLOOR TILE	TAN,OTH,1X1 FL TL	5	-	-	YES
FH921	SALES AREA	FLOOR TILE	BROWN,OTH,1X1 FL TL	3	-	-	YES
FH922	SALES AREA	FLOOR TILE	BROWN,OTH,1X1 FL TL	3	-	-	NO
FH923	VESTIBULE 2	FLOOR TILE	GRAY,OTH,1X1 FL TL	-	-	-	NO
FH924	VESTIBULE 2	FLOOR TILE	GRAY,OTH,1X1 FL TL	-	-	-	NO
FH925	BOILER ROOM	BOILERS/TANKS	GRAY,OTH,TANK INSUL	20	20	-	NO
FH926	BOILER ROOM	BOILERS/TANKS	GRAY,OTH,TANK INSUL	40	5	-	YES
FH927	BOILER ROOM	4-8" PIPE FITTING	GRAY,UNK,PIPE FITT.	40	-	-	YES
FH928	BOILER ROOM	4-8" PIPE RUN	GRAY,UNK,PIPE RUN	25	20	-	NO
FH929	BOILER ROOM	<4" PIPE RUN	GRAY,UNK,PIPE INS.	-	-	-	YES
FH930	BOILER ROOM	DEBRIS	GRAY,OTH,DEBRIS	1	-	-	YES
FH931	STORAGE 2	OTHER MATERIAL	WHITE,OTH,FIBER BOAR	50	-	-	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 800.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 800, EXCHANGE SERVICE

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"					
BOILER ROOM	-	8	-	-	-	25	-	-	-	-	0.16	-	*
OFFICE #2	-	-	-	-	-	-	-	-	-	0.17	-	-	-
OUTDOOR SALES AREA	-	-	-	-	-	-	-	-	-	1.26	-	-	-
SALES AREA	-	-	-	-	-	-	-	-	-	2.36	-	-	-
STORAGE 2	-	-	-	-	-	-	-	-	-	-	-	-	*
STORAGE 3	-	-	-	-	-	-	-	-	-	1.57	-	-	-
TOTALS	-	8	-	-	-	25	-	-	-	5.36	0.16	-	*

* Other Material Present In Various Units Of Measure

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

Table 800.3

**Other Asbestos-Containing Material - Building 800, Exchange Service
Type Occupancy: Adults (Public)**

Area	Material Type	Quantity (Unit)
Boiler Room	Debris	0.015 (MSF)
Storage #2	Transite Ceiling Board	0.005 (MSF)
Boiler Room	Debris	0.015 (MSF)

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

800-5

TABLE 800.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 800, EXCHANGE SERVICE

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH925	BOILER ROOM	BOILERS/TANKS	A	4.050E-1	3	1	2	1	1	1.00	40
FH926	BOILER ROOM	BOILERS/TANKS	A	4.050E-1	3	1	2	1	1	1.00	45
FH927	BOILER ROOM	4-8" PIPE FITTING	A	4.050E-1	3	1	2	1	1	1.00	40
FH928	BOILER ROOM	4-8" PIPE RUN	A	4.050E-1	3	1	2	1	1	1.00	45
FH931	STORAGE 2	INSULATION BOARD	A	4.216E-2	1	1	1	1	16	34.00	50
FH930	BOILER ROOM	DEBRIS	A	2.500E-2	3	1	2	1	1	1.00	1
FH915	OUTDOOR SALES AREA	CEILING TILE	A	0	1	1	1	1	16	34.00	0
FH916	SALES AREA	CEILING TILE	A	0	1	1	1	1	16	34.00	0
FH917	MENS/WOMENS TOILET	CEILING TILE	A	0	1	1	1	1	16	34.00	0
FH917	NEW SALES AREA	CEILING TILE	A	0	1	1	1	1	16	34.00	0
FH917	OFFICE	CEILING TILE	A	0	1	1	1	1	16	34.00	0
FH917	OFFICE 2	CEILING TILE	A	0	1	1	1	1	16	34.00	0
FH917	SALES AREA	CEILING TILE	A	0	1	1	1	1	16	34.00	0
FH917	STORAGE	CEILING TILE	A	0	1	1	1	1	16	34.00	0
FH917	STORAGE 3	CEILING TILE	A	0	1	1	1	1	16	34.00	0
FH929	BOILER ROOM	<4" PIPE RUN	A	0	3	1	2	1	1	1.00	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 800.5

COST ESTIMATE* - BUILDING 800, EXCHANGE SERVICE

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6	TOTAL
Pipe Fittings (EA)								
<4"	70.30	-	-	-	-	-	-	-
4-8"	85.80	0.7	-	-	-	-	-	0.7
9-14"	146.70	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-
Pipe Runs (LF)								
<4"	26.50	-	-	-	-	-	-	-
4-8"	30.50	0.8	-	-	-	-	-	0.8
9-14"	22.50	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	-	0.9	7.1	13.2	-	8.8	30.0
Boilers/Tanks (SF)	37.90	5.9	-	-	-	-	-	5.9
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-
Other		0.3	-	-	-	**	-	0.3
SUBTOTAL		7.7	0.9	7.1	13.2	**	8.8	37.7
Difficulty Allowance		3.0	-	-	-	**	-	3.0
SUBTOTAL		10.6	0.9	7.1	13.2	**	8.8	40.6
Decontamination Units		1.0	1.0	1.0	1.0	1.0	1.0	6.0
Mobilization		0.3	0.3	0.3	0.3	0.3	0.3	2.0
SUBTOTAL		12.0	2.3	8.4	14.5	1.4	10.1	48.6
Contingency @ 15.00%		1.8	0.3	1.3	2.2	0.2	1.5	7.3
SUBTOTAL		13.7	2.6	9.6	16.7	1.6	11.6	55.9
Design Fee @ 10.00%		1.4	0.3	1.0	1.7	0.2	1.2	5.6
SUBTOTAL		15.1	2.9	10.6	18.4	1.7	12.8	61.5
Air Monitoring @ 10.00%***		1.0	1.0	1.0	1.0	1.0	1.0	6.2
TOTAL		16.1	3.9	11.6	19.4	2.8	13.8	67.7

* 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: BOILER ROOM
 AREA 3: OUTDOOR SALES AREA
 AREA 5: STORAGE 2

AREA 2: OFFICE #2
 AREA 4: SALES AREA
 AREA 6: STORAGE 3

SECTION 800.4
PHOTOGRAPHS



BLDG. 800

OUTDOOR SALES: (SAMPLE FH920) TAN/BROWN 1' X 1' FLOOR TILE TESTED POSITIVE. TAN/BROWN FLOOR TILES ARE ALSO PRESENT IN THE SALES AREA.



BLDG. 800

BOILER ROOM: (SAMPLE FH926) GRAY TANK INSULATION TESTED POSITIVE.



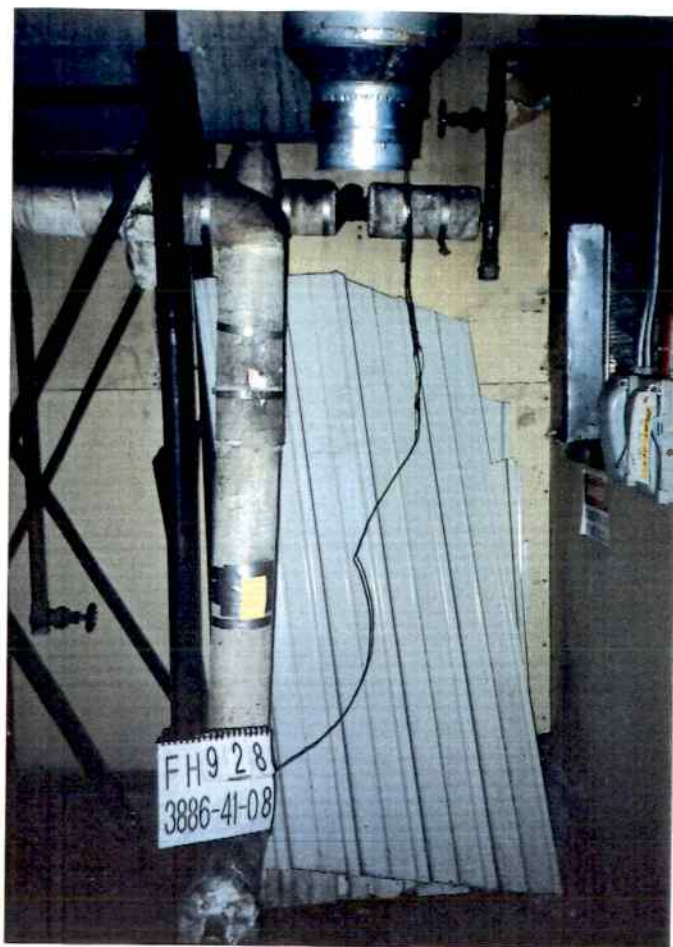
BLDG. 800

BOILER ROOM: (SAMPLE FH930) GRAY DEBRIS
TESTED POSITIVE.



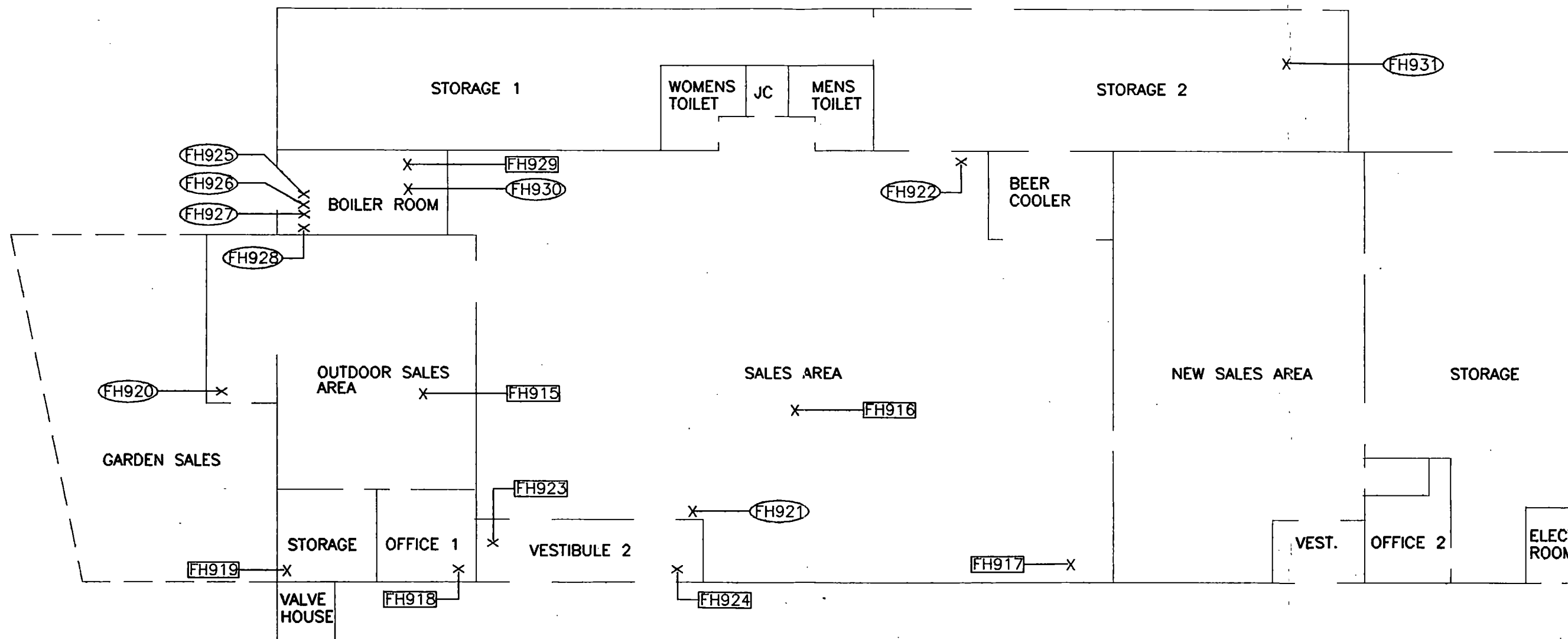
BLDG. 800

STORAGE NO. 2: (SAMPLE FH931) WHITE
FIBERBOARD TESTED POSITIVE.



BLDG. 800

BOILER ROOM: (SAMPLE FH927) GRAY 4"-8"
PIPE FITTING INSULATION AND (SAMPLE FH928)
GRAY 4"-8" PIPE RUN INSULATION BOTH TESTED
POSITIVE.



BLDG. 800
NOT TO SCALE



LEGEND

FHnnn POSITIVE SAMPLE
FHnnn NEGATIVE SAMPLE



875

875
STOREHOUSE

STOREHOUSE**875.1 GENERAL**

Building 875 was surveyed by WESTON technicians on 1 April 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, 4 were found to be asbestos-containing materials (ACM). Table 875.1 lists the analytical results for the bulk samples.

875.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 875 are presented in Table 875.1. An area-by-area inventory of ACM is provided in Tables 875.2 and 875.3. "Other Asbestos-Containing Materials," listed in Table 875.3, are materials that do not correspond to the standard caption categories listed in Table 875.2. A prioritized listing of exposure assessments is presented in Table 875.4. The method by which the exposure assessment priority index values are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.5 of the Guide Document that accompanies this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 875.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.4 of the Guide Document. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 875.2 and 875.5.

875.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- All asbestos-containing floor tile and expansion joints should be labeled under the O&M Program.

TABLE 875.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 875, STOREHOUSE

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH676	STOREHOUSE	EXPANSION JOINT(S)	WHITE,OTH,EXP. CLOTH	75	-	-	NO
FH677	STOREHOUSE	OTHER MATERIAL	BLACK,OTH,SHINGLES	-	-	-	YES
FH768	STOREHOUSE	FLOOR TILE	BROWN,OTH,FL TL	3	-	-	NO
FH769	STOREHOUSE	FLOOR TILE	BLACK,OTH,FL TL	5	-	-	NO
FH770	STOREHOUSE	FLOOR TILE	GREEN,OTH,FL TL	3	-	-	NO
FH771	STOREHOUSE	TRANSITE PANEL BOARD	BLUE,OTH,TRANS PANL	-	-	-	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 875.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 875, 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"					
Storehouse	-	-	-	-	-	-	-	-	-	1.02	-	-	*
TOTALS	-	-	-	-	-	-	-	-	-	1.02	-	-	*

* Other Material Present In Various Units Of Measure

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

Table 875.3

**Other Asbestos-Containing Material - Building 875, Storehouse
Type Occupancy: Adults (Public)**

Area	Material Type	Quantity (Unit)
Storehouse	Expansion Joints	3.0 EA

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

875-5

TABLE 875.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 875, STOREHOUSE

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH676	Storehouse	EXPANSION JOINTS	A	4.350E-3	1	1	2	1	2	10.00	75
FH771	Storehouse	TRANSITE PANEL BOARD	A	0	1	1	2	1	2	10.00	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 875.5

COST ESTIMATE* - BUILDING 875, STOREHOUSE

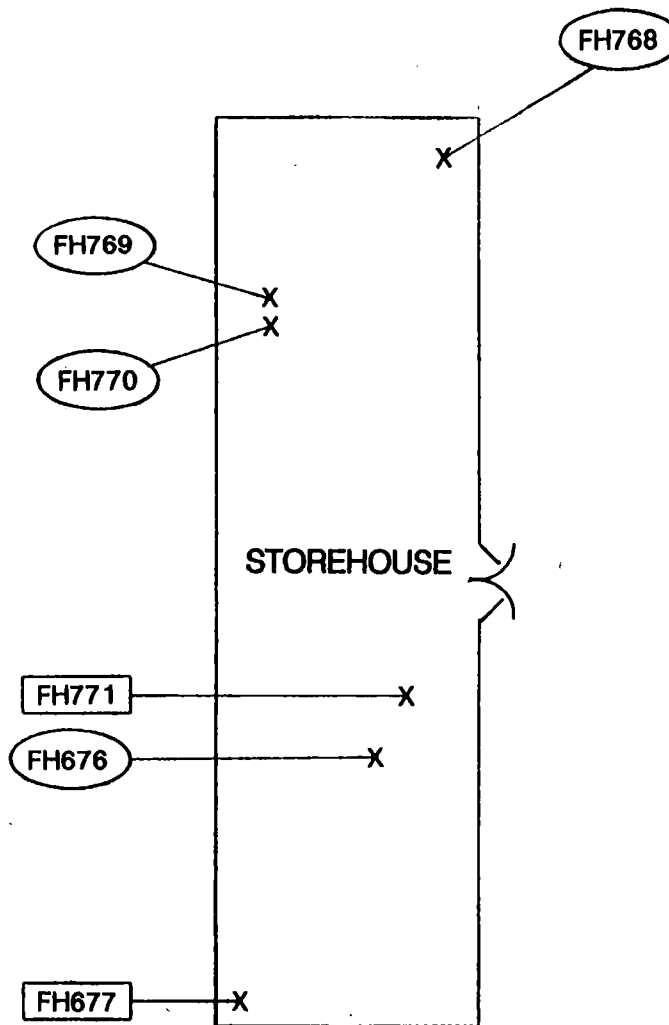
DESCRIPTION	UNIT COST (\$)	AREA 1	TOTAL
Pipe Fittings (EA)			
<4"	70.30	-	-
4-8"	85.80	-	-
9-14"	147.00	-	-
>14"	216.00	-	-
Pipe Runs (LF)			
<4"	26.50	-	-
4-8"	30.50	-	-
9-14"	42.50	-	-
>14"	60.80	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-
Floor Tile (SF)	5.60	5.7	5.7
Boilers/Tanks (SF)	37.90	-	-
Air Handling Equipment (SF)	20.00	-	-
Other		9.0	9.0
SUBTOTAL		14.7	14.7
Difficulty Allowance		-	-
SUBTOTAL		14.7	14.7
Decontamination Units		3.0	3.0
Mobilization		2.0	2.0
SUBTOTAL		19.7	19.7
Contingency @ 15.00%		3.0	3.0
SUBTOTAL		22.7	22.7
Design Fee @ 10.00%		2.3	2.3
SUBTOTAL		24.9	24.9
Air Monitoring @ 10.00%***		2.5	2.5
TOTAL		27.4	27.4

* 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: Storehouse



BLDG 875

LEGEND

FHnnn POSITIVE SAMPLE

FHnnn NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

899

899

DEFENSE INVESTIGATION SERVICES

DEFENSE INVESTIGATION SERVICES**899.1 GENERAL**

Building 899 was surveyed by WESTON technicians on 14 June 1991.

The first three portions of this facility report summarize the results of this inspection. Photographs of some sample locations are provided in Section 899.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 8 samples of suspect material collected from the building. Of these samples, 4 were found to be asbestos-containing materials (ACM). Table 899.1 lists the analytical results for the bulk samples.

899.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 899 are presented in Table 899.1. An area-by-area inventory of ACM is provided in Tables 899.2 and 899.3. "Other Asbestos-Containing Materials," listed in Table 899.3, are materials that do not correspond to the standard caption categories listed in Table 899.2. A prioritized listing of exposure assessments is presented in Table 899.4. The method by which the exposure assessment priority index values are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.5 of the Guide Document that accompanies this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 899.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.4 of the Guide Document. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 899.2 and 899.5.

899.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

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

TABLE 899.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 899, DEFENSE INVEST. SERV

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"					
MENS LATRINE	-	-	-	-	-	-	-	-	-	0.04	-	-	-
OPEN OFFICE AREA	-	-	-	-	-	-	-	-	-	1.11	-	-	-
SUPPLY ROOM	-	-	-	-	-	-	-	-	-	0.24	-	-	-
WOMENS LATRINE	-	-	-	-	-	-	-	-	-	0.04	-	-	-
TOTALS	-	-	-	-	-	-	-	-	-	1.43	-	-	-

* Other Material Present In Various Units Of Measure

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

Table 899.3

**Other Asbestos-Containing Material - Building 899, Defense Investigation Services
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

899-5

TABLE 899.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 899, DEFENSE INVEST. SERV

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FK528	SUPPLY ROOM	CEILING TILE	A	0	1	1	1	2	8	40.00	0
FK529	OPEN OFFICE AREA	CEILING TILE	A	0	1	1	1	2	8	40.00	0
FK533	WOMENS LATRINE	<4" PIPE FITTING	A	0	1	1	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 899.5

COST ESTIMATE* - BUILDING 899, DEFENSE INVEST. SERV

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	TOTAL
Pipe Fittings (EA)						
<4"	70.30	-	-	-	-	-
4-8"	85.80	-	-	-	-	-
9-14"	146.70	-	-	-	-	-
>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	6.2	1.3	0.2	8.0
Boilers/Tanks (SF)	37.90	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-
Other		-	-	-	-	-
SUBTOTAL		0.2	6.2	1.3	0.2	8.0
Difficulty Allowance		-	3.1	-	-	3.1
SUBTOTAL		0.2	9.3	1.3	0.2	11.1
Decontamination Units Mobilization		0.8	0.8	0.8	0.8	3.0
		0.5	0.5	0.5	0.5	2.0
SUBTOTAL		1.5	10.6	2.6	1.5	16.1
Contingency @ 15.00%		0.2	1.6	0.4	0.2	2.4
SUBTOTAL		1.7	12.2	3.0	1.7	18.6
Design Fee @ 10.00%		0.2	1.2	0.3	0.2	1.9
SUBTOTAL		1.9	13.4	3.3	1.9	20.4
Air Monitoring @ 10.00%***		0.5	0.5	0.5	0.5	2.0
TOTAL		2.4	13.9	3.8	2.4	22.5

* 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: MENS LATRINE
AREA 3: SUPPLY ROOMAREA 2: OPEN OFFICE AREA
AREA 4: WOMENS LATRINE

SECTION 899.4
PHOTOGRAPHS

TABLE 899.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 899, DEFENSE INVEST. SERV

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FK527	SUPPLY ROOM	FLOOR TILE	BROWN,OTH,9X9 FL TL	7	-	1	YES
FK528	SUPPLY ROOM	CEILING TILE	WHITE,OTH,CEIL.PANEL	-	-	-	YES
FK529	OPEN OFFICE AREA	CEILING TILE	WHITE,OTH,CEIL.PANEL	-	-	-	YES
FK530	MENS LATRINE	FLOOR TILE	GRAY,OTH,1X1 FL TL	3	-	-	NO
FK531	WOMENS LATRINE	FLOOR TILE	GRAY,OTH,1X1 FL TL	3	-	-	YES
FK532	OPEN OFFICE AREA	FLOOR TILE	GRAY,OTH,1X1 FL TL	2	-	-	YES
FK533	WOMENS LATRINE	<4" PIPE FITTING	WHITE,OTH,<4" FITT.	-	-	-	YES
FK534	WOMENS LATRINE	DUPLICATE SAMPLE	WHITE,UNK,<4" FITT.	-	-	-	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



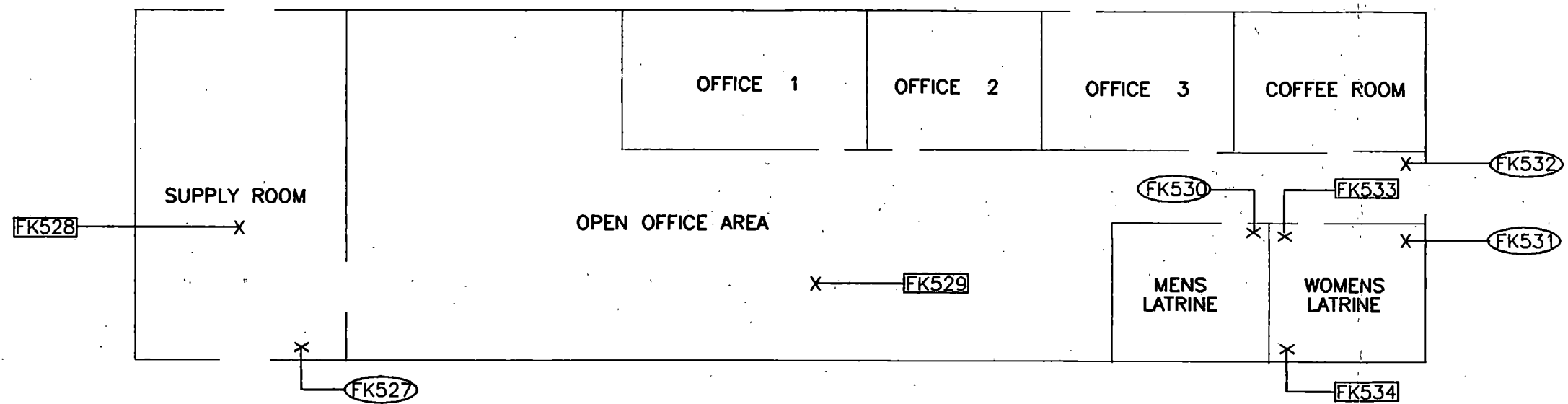
BLDG. 899

SUPPLY ROOM: (SAMPLE FK527) BROWN 9" X 9"
FLOOR TILE TESTED POSITIVE.



BLDG. 899

MEN'S/WOMEN'S LATRINES: (SAMPLE FK530) GRAY
1' X 1' FLOOR TILE TESTED POSITIVE. GRAY
1' X 1' FLOOR TILE IS ALSO PRESENT IN THE
OPEN OFFICE AREA.



BLDG. 899
NOT TO SCALE



LEGEND

(FHnnn) POSITIVE SAMPLE
(FHnnn) NEGATIVE SAMPLE



902

902
WAREHOUSE

WAREHOUSE**902.1 GENERAL**

Building 902 was surveyed by WESTON technicians on 13 June 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. All 5 samples were found to be asbestos-containing materials (ACM). Table 902.1 lists the analytical results for the bulk samples.

902.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 902 are presented in Table 902.1. An area-by-area inventory of ACM is provided in Tables 902.2 and 902.3. "Other Asbestos-Containing Materials," listed in Table 902.3, are materials that do not correspond to the standard caption categories listed in Table 902.2. A prioritized listing of exposure assessments is presented in Table 902.4. The method by which the exposure assessment priority index values are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.5 of the Guide Document that accompanies this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 902.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.4 of the Guide Document. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 902.2 and 902.5.

902.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

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

TABLE 902.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 902, WAREHOUSE

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FK535	STORAGE AREA	FLOOR TILE	BROWN,OTH,9X9 FL TL	7	-	-	YES
FK536	STORAGE AREA	FLOOR TILE	GREEN,OTH,9X9 FL TL	5	-	-	YES
FK537	STORAGE AREA	FLOOR TILE	GREEN,OTH,9X9 FL TL	5	-	-	YES
FK538	STORAGE AREA	FLOOR TILE	BLACK,OTH,9X9 FL TL	7	-	-	YES
FK539	STORAGE AREA	FLOOR TILE	BLACK,OTH,9X9 FL TL	7	-	-	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 902.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 902, WAREHOUSE

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"					
STORAGE AREA	-	-	-	-	-	-	-	-	-	2.58	-	-	-
TOTALS	-	-	-	-	-	-	-	-	-	2.58	-	-	-

* Other Material Present In Various Units Of Measure

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

Table 902.3

**Other Asbestos-Containing Material - Building 902, 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

902-5

TABLE 902.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 902, WAREHOUSE

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 902.5

COST ESTIMATE* - BUILDING 902, WAREHOUSE

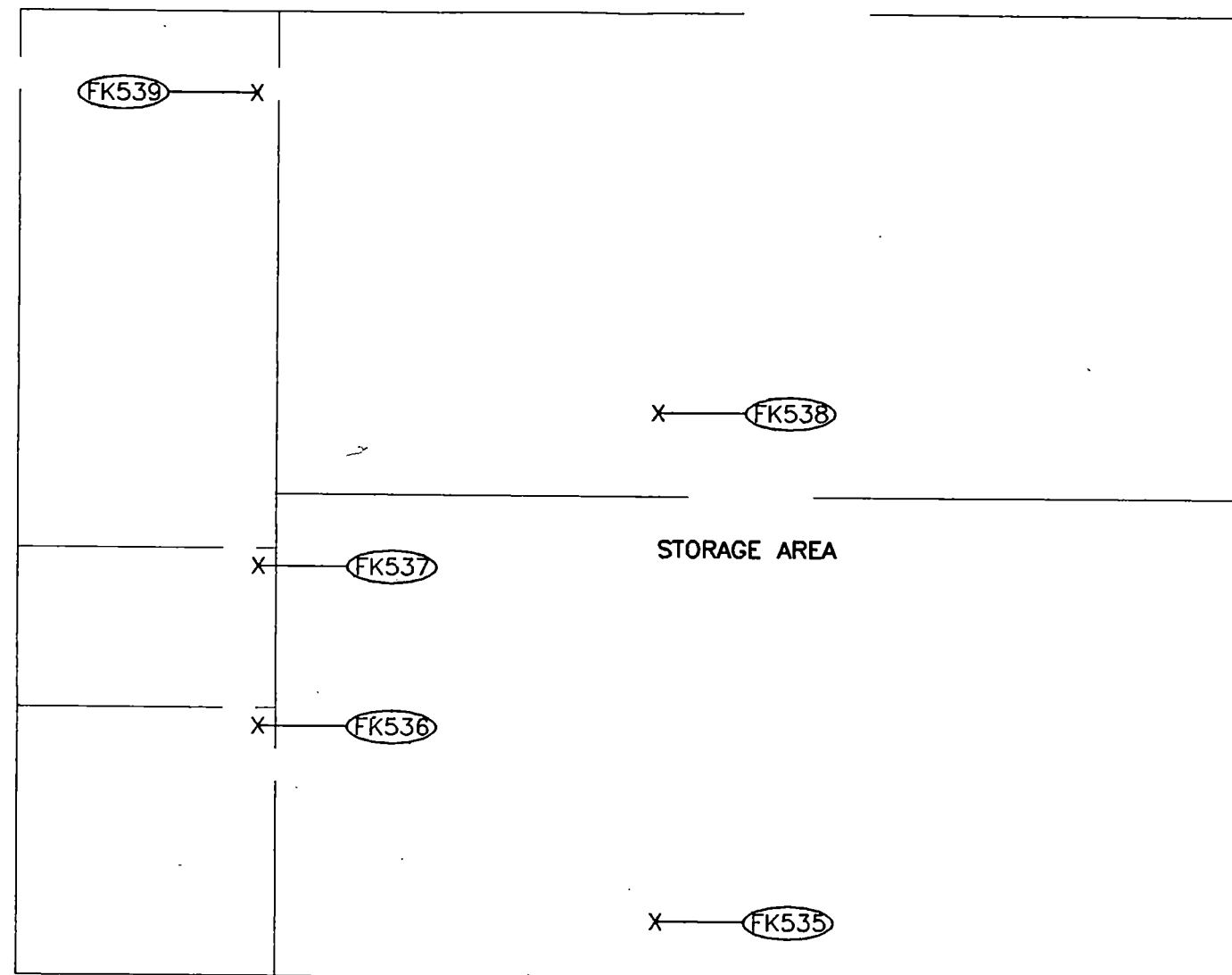
DESCRIPTION	UNIT COST (\$)	AREA 1	TOTAL
Pipe Fittings (EA)			
<4"	70.30	-	-
4-8"	85.80	-	-
9-14"	122.00	-	-
>14"	218.00	-	-
Pipe Runs (LF)			
<4"	26.50	-	-
4-8"	30.50	-	-
9-14"	22.50	-	-
>14"	60.80	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-
Floor Tile (SF)	5.60	14.5	14.5
Boilers/Tanks (SF)	37.90	-	-
Air Handling Equipment (SF)	20.00	-	-
Other		-	-
SUBTOTAL		14.5	14.5
Difficulty Allowance		-	-
SUBTOTAL		14.5	14.5
Decontamination Units		3.0	3.0
Mobilization		2.0	2.0
SUBTOTAL		19.5	19.5
Contingency @ 15.00%		2.9	2.9
SUBTOTAL		22.4	22.4
Design Fee @ 10.00%		2.2	2.2
SUBTOTAL		24.6	24.6
Air Monitoring @ 10.00%***		2.5	2.5
TOTAL		27.1	27.1

* 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: STORAGE AREA



BLDG. 902
NOT TO SCALE

LEGEND

(FHnnn) POSITIVE SAMPLE
[FHnnn] NEGATIVE SAMPLE



905

905
WAREHOUSE

WAREHOUSE**905.1 GENERAL**

Building 905 was surveyed by WESTON technicians on 14 June 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 9 samples of suspect material collected from the building. Of these samples, 4 were found to be asbestos-containing materials (ACM). Table 905.1 lists the analytical results for the bulk samples.

905.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 905 are presented in Table 905.1. An area-by-area inventory of ACM is provided in Tables 905.2 and 905.3. "Other Asbestos-Containing Materials," listed in Table 905.3, are materials that do not correspond to the standard caption categories listed in Table 905.2. A prioritized listing of exposure assessments is presented in Table 905.4. The method by which the exposure assessment priority index values are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.5 of the Guide Document that accompanies this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 905.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.4 of the Guide Document. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 905.2 and 905.5.

905.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

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

TABLE 905.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 905, WAREHOUSE

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FK540	1ST FL. OFFICE 1	SPRAYED/TROWELED MATERIAL	BROWN,OTH,INSUL.	-	-	-	NO
FK541	1ST FL. OFFICE 1	DUPLICATE SAMPLE	BROWN,OTH,INSUL.	-	-	-	NO
FK542	1ST FL. OFFICE 2	SPRAYED/TROWELED MATERIAL	BROWN,OTH,INSUL.	-	-	-	NO
FK543	2ND FL. OFFICE 1	FLOOR TILE	BLACK,OTH,9X9 FL TL	7	-	-	YES
FK544	1ST FL. OFFICE 2	FLOOR TILE	BLACK,OTH,9X9 FL TL	7	-	-	YES
FK545	1ST FL. OFFICE 2	FLOOR TILE	GREEN,OTH,9X9 FL TL	5	-	-	YES
FK546	1ST FL. OFFICE 1	FLOOR TILE	GREEN,OTH,9X9 FL TL	5	-	-	YES
FK547	2ND FL. OFFICE 1	CEILING TILE	WHITE,OTH,1X1 CL TL	-	-	-	YES
FK548	1ST FL. OFFICE 2	CEILING TILE	WHITE,OTH,CEIL. TILE	-	-	-	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 905.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 905, WAREHOUSE

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"					
1ST FL. OFFICE 1	-	-	-	-	-	-	-	-	-	0.32	-	-	-
1ST FL. OFFICE 2	-	-	-	-	-	-	-	-	-	0.72	-	-	-
2ND FL. OFFICE 1	-	-	-	-	-	-	-	-	-	0.32	-	-	-
TOTALS	-	-	-	-	-	-	-	-	-	1.36	-	-	-

* Other Material Present In Various Units Of Measure

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

Table 905.3

**Other Asbestos-Containing Material - Building 905, 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

905-5

TABLE 905.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 905, WAREHOUSE

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FK540	1ST FL. OFFICE 1	SPRAYED/TROWELED MATERIAL	A	0	3	2	2	1	1	1.00	0
FK542	1ST FL. OFFICE 2	SPRAYED/TROWELED MATERIAL	A	0	3	2	2	1	1	1.00	0
FK547	2ND FL. OFFICE 1	CEILING TILE	A	0	3	2	2	1	1	1.00	0
FK548	1ST FL. OFFICE 2	CEILING TILE	A	0	3	2	2	1	1	1.00	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 905.5

COST ESTIMATE* - BUILDING 905, WAREHOUSE

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	TOTAL
Pipe Fittings (EA)					
<4"	70.30	-	-	-	-
4-8"	85.80	-	-	-	-
9-14"	146.70	-	-	-	-
>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	1.8	4.0	1.8	7.6
Boilers/Tanks (SF)	37.90	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-
Other		-	-	-	-
SUBTOTAL		1.8	4.0	1.8	7.6
Difficulty Allowance		-	2.0	-	2.0
SUBTOTAL		1.8	6.0	1.8	9.6
Decontamination Units		1.0	1.0	1.0	3.0
Mobilization		0.7	0.7	0.7	2.0
SUBTOTAL		3.5	7.7	3.5	14.6
Contingency @ 15.00%		0.5	1.2	0.5	2.2
SUBTOTAL		4.0	8.9	4.0	16.8
Design Fee @ 10.00%		0.4	0.9	0.4	1.7
SUBTOTAL		4.4	9.8	4.4	18.5
Air Monitoring @ 10.00%***		0.6	0.6	0.6	1.9
TOTAL		5.0	10.4	5.0	20.4

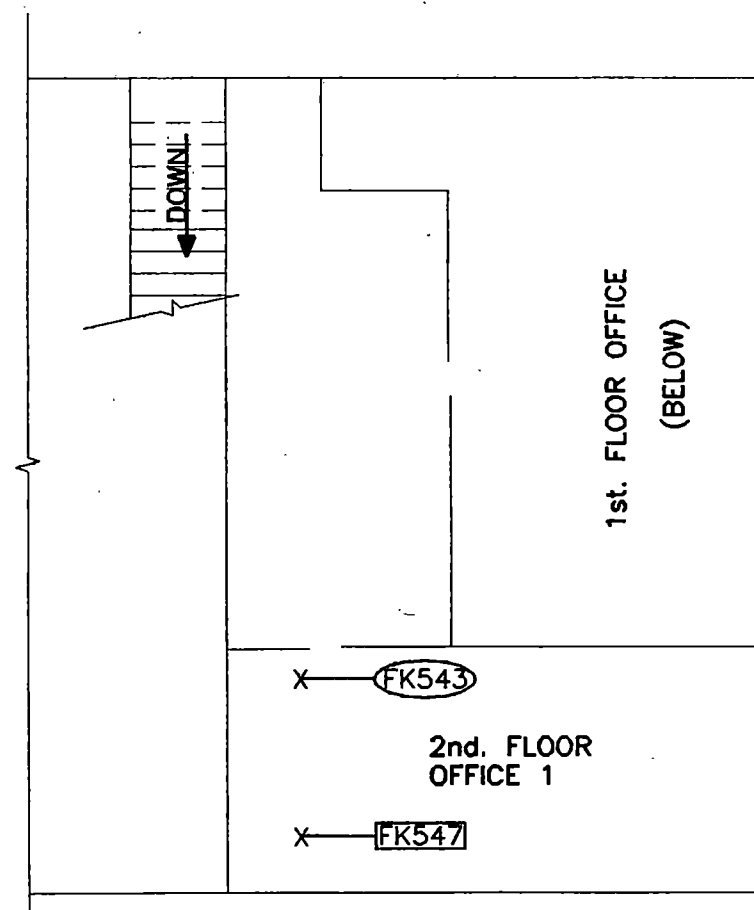
* Amounts Are In Thousands Of Dollars

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

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

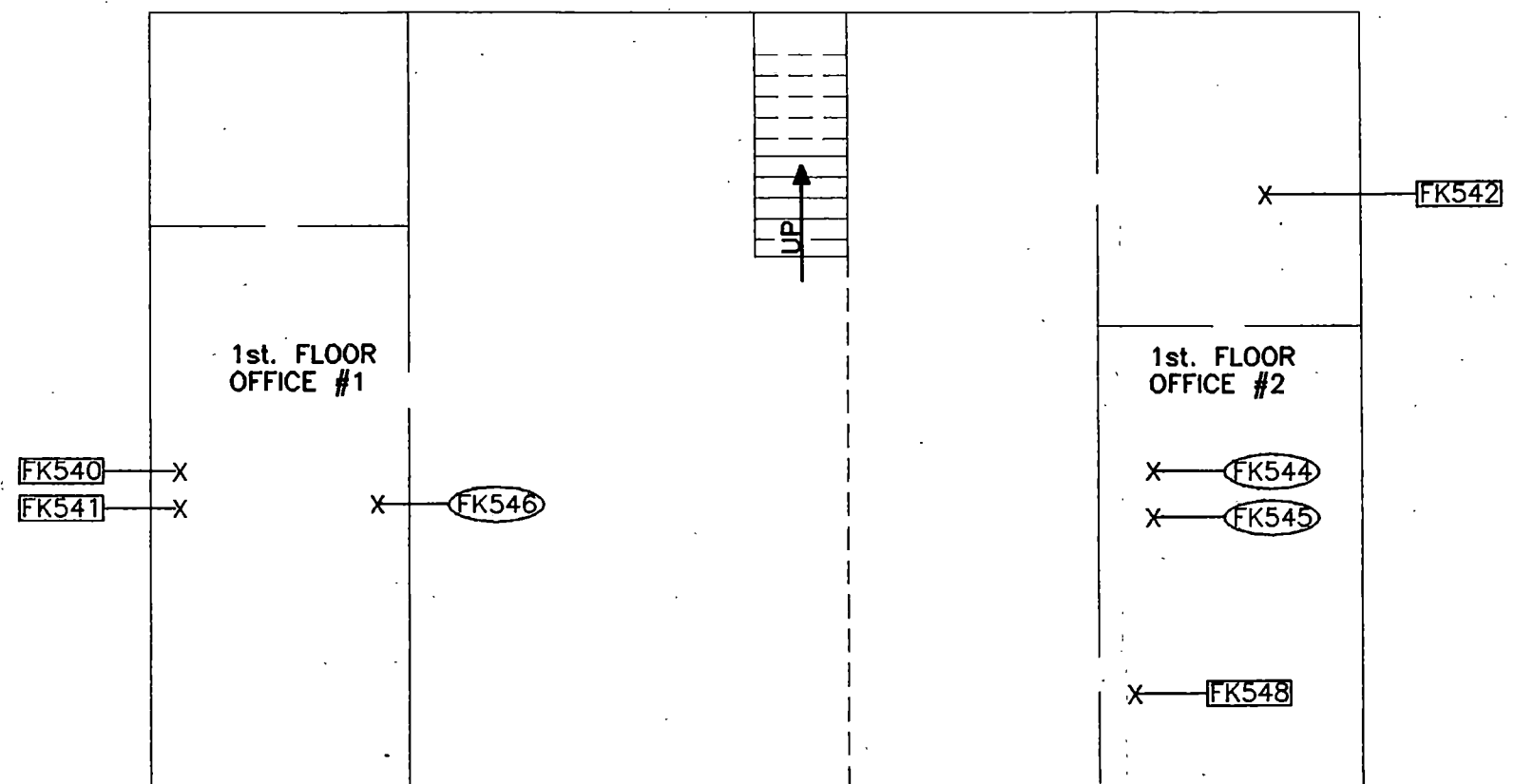
AREA 1: 1ST FL. OFFICE 1
AREA 3: 2ND FL. OFFICE 1

AREA 2: 1ST FL. OFFICE 2



2nd FLOOR

BLDG. 905
NOT TO SCALE



1st. FLOOR

BLDG. 905
NOT TO SCALE



LEGEND

(FHnnn) POSITIVE SAMPLE
(FHnnn) NEGATIVE SAMPLE



908

908
HOSPITAL STORAGE

HOSPITAL STORAGE

908.1 GENERAL

Building 908 was surveyed by WESTON technicians on 14 June 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 908.1 lists the analytical results for the bulk samples.

908.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 908 are presented in Table 908.1. An area-by-area inventory of ACM is provided in Tables 908.2 and 908.3. "Other Asbestos-Containing Materials," listed in Table 908.3, are materials that do not correspond to the standard caption categories listed in Table 908.2. A prioritized listing of exposure assessments is presented in Table 908.4. The method by which the exposure assessment priority index values are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.5 of the Guide Document that accompanies this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 908.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.4 of the Guide Document. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 908.2 and 908.5.

908.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

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

TABLE 908.1
BULK SAMPLE ANALYSIS RESULTS - BUILDING 908, HOSPITAL STORAGE

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FK521	RAISED OFFICE AREA	CEILING TILE	WHITE,OTH,CEIL. TILE	-	-	-	YES
FK522	RAISED OFFICE AREA	CEILING TILE	WHITE,OTH,CEIL. TILE	-	-	-	YES
FK523	RAISED OFFICE AREA	DUPLICATE SAMPLE	WHITE,OTH,CEIL. TILE	-	-	-	YES
FK524	RAISED OFFICE AREA	FLOOR TILE	GRAY,OTH,9X9 FL TL	7	-	-	NO
FK525	RAISED OFFICE AREA	FLOOR TILE	GRAY,OTH,9X9 FL TL	7	-	-	YES
FK526	RAISED OFFICE AREA	DUPLICATE SAMPLE	GRAY,OTH,9X9 FL TL	7	-	-	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 908.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 908, HOSPITAL 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"					
RAISED OFFICE AREA	-	-	-	-	-	-	-	-	-	1.41	-	-	-
TOTALS	-	-	-	-	-	-	-	-	-	1.41	-	-	-

* Other Material Present In Various Units Of Measure

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

Table 908.3

**Other Asbestos-Containing Material - Building 908, Hospital 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

908-5

TABLE 908.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 908, HOSPITAL STORAGE

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FK521	RAISED OFFICE AREA	CEILING TILE	A	0	3	1	2	1	2	1.00	0
FK522	RAISED OFFICE AREA	CEILING TILE	A	0	3	1	2	1	2	1.00	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 908.5

COST ESTIMATE* - BUILDING 908, HOSPITAL STORAGE

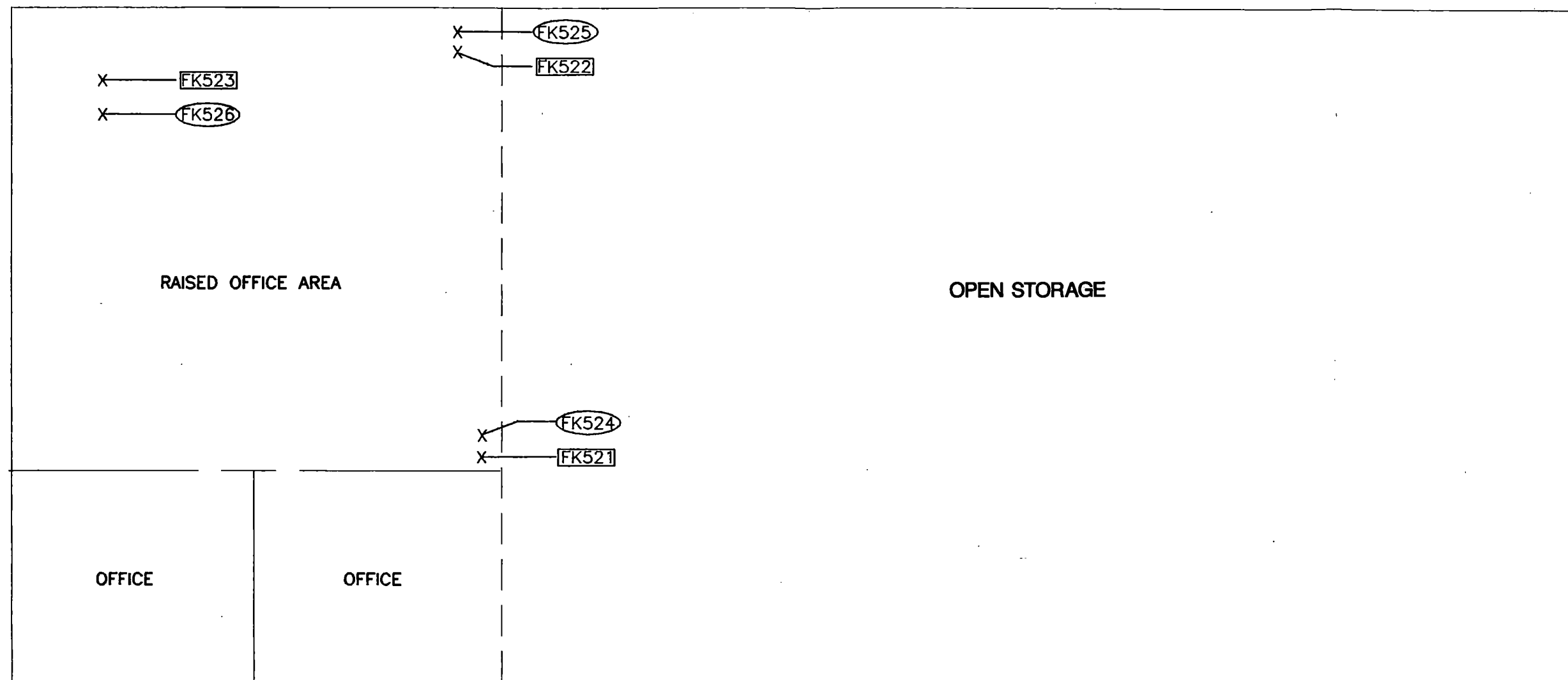
DESCRIPTION	UNIT COST (\$)	AREA 1	TOTAL
Pipe Fittings (EA)			
<4"	70.30	-	-
4-8"	85.80	-	-
9-14"	146.70	-	-
>14"	216.00	-	-
Pipe Runs (LF)			
<4"	26.50	-	-
4-8"	30.50	-	-
9-14"	42.50	-	-
>14"	60.80	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-
Floor Tile (SF)	5.60	7.9	7.9
Boilers/Tanks (SF)	37.90	-	-
Air Handling Equipment (SF)	20.00	-	-
Other		-	-
SUBTOTAL		7.9	7.9
Difficulty Allowance		-	-
SUBTOTAL		7.9	7.9
Decontamination Units Mobilization		3.0 2.0	3.0 2.0
SUBTOTAL		12.9	12.9
Contingency @ 15.00%		1.9	1.9
SUBTOTAL		14.8	14.8
Design Fee @ 10.00%		1.5	1.5
SUBTOTAL		16.3	16.3
Air Monitoring @ 10.00%***		1.6	1.6
TOTAL		17.9	17.9

* 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: RAISED OFFICE AREA



BLDG. 908
NOT TO SCALE



LEGEND

POSITIVE SAMPLE
 NEGATIVE SAMPLE



910

910

ADMINISTRATION BUILDING

ADMINISTRATION BUILDING**910.1 GENERAL**

Building 910 was surveyed by WESTON technicians on 13 June 1991.

The first three portions of this facility report summarize the results of this inspection. Photographs of some sample locations are provided in Section 910.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 5 samples of suspect material collected from the building. All 5 samples were found to be asbestos-containing materials (ACM). Table 910.1 lists the analytical results for the bulk samples.

910.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 910 are presented in Table 910.1. An area-by-area inventory of ACM is provided in Tables 910.2 and 910.3. "Other Asbestos-Containing Materials," listed in Table 910.3, are materials that do not correspond to the standard caption categories listed in Table 910.2. A prioritized listing of exposure assessments is presented in Table 910.4. The method by which the exposure assessment priority index values are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.5 of the Guide Document that accompanies this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 910.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.4 of the Guide Document. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 910.2 and 910.5.

910.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

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

TABLE 910.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 910, ADMINISTRATION BLDG.

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FK516	WOMEN	FLOOR TILE	WHITE,OTH,1X1 FL TL	5	-	-	NO
FK517	ROOM 6	FLOOR TILE	WHITE,OTH,1X1 FL TL	5	-	-	YES
FK518	2ND FLR OPEN OFFICE	FLOOR TILE	WHITE,OTH,1X1 FL TL	5	-	-	YES
FK519	BOILER ROOM	TRANSITE PANEL BOARD	GRAY,OTH,TRAN PANEL	50	-	-	NO
FK520	EXTERIOR WALL	EXTERIOR SIDING	GRAY,OTH,EXT SIDING	45	-	1	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 910.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 910, ADMINISTRATION BLDG.

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"					
2ND FLR OPEN OFFICE	-	-	-	-	-	-	-	-	-	2.20	-	-	-
BOILER ROOM	-	-	-	-	-	-	-	-	-	-	-	-	*
CORRIDOR	-	-	-	-	-	-	-	-	-	0.49	-	-	-
EXTERIOR WALL	-	-	-	-	-	-	-	-	-	-	-	-	*
ROOM 1	-	-	-	-	-	-	-	-	-	0.24	-	-	-
ROOM 2	-	-	-	-	-	-	-	-	-	0.24	-	-	-
ROOM 3	-	-	-	-	-	-	-	-	-	0.18	-	-	-
ROOM 4	-	-	-	-	-	-	-	-	-	0.18	-	-	-
ROOM 5	-	-	-	-	-	-	-	-	-	0.20	-	-	-
ROOM 6	-	-	-	-	-	-	-	-	-	0.20	-	-	-
WOMEN	-	-	-	-	-	-	-	-	-	0.12	-	-	-
TOTALS	-	-	-	-	-	-	-	-	-	4.05	-	-	*

* Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

Table 910.3

**Other Asbestos-Containing Material - Building 910, Administration Building
Type Occupancy: Adults (Public)**

Area	Material Type	Quantity (Unit)
Boiler Room	Transite Panel	0.125 (MSF)
Exterior Wall	Exterior Siding	0.015 (MSF)

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

910-5

TABLE 910.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 910, ADMINISTRATION BLDG.

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FK519	BOILER ROOM	TRANSITE PANEL BOARD	A	7.750E-5	1	1	1	1	1	1.00	50.
FK520	EXTERIOR WALL	EXTERIOR SIDING	A	7.750E-5	1	1	1	1	1	1.00	46

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 910.5

COST ESTIMATE* - BUILDING 910, ADMINISTRATION BLDG.

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"	72.50	-	-	-	-	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	12.3	-	2.7	-	1.3	1.3	1.0	1.0	1.1	1.1	0.7
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-	-	-	-
Other		-	1.4	-	0.2	-	-	-	-	-	-	-
SUBTOTAL		12.3	1.4	2.7	0.2	1.3	1.3	1.0	1.0	1.1	1.1	0.7
Difficulty Allowance		6.2	0.7	-	-	-	-	-	-	-	0.6	-
SUBTOTAL		18.5	2.1	2.7	0.2	1.3	1.3	1.0	1.0	1.1	1.7	0.7
Decontamination Units		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Mobilization		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
SUBTOTAL		19.2	2.8	3.4	0.9	2.1	2.1	1.7	1.7	1.9	2.4	1.4
Contingency @ 15.00%		2.9	0.4	0.5	0.1	0.3	0.3	0.3	0.3	0.3	0.4	0.2
SUBTOTAL		22.1	3.2	4.0	1.0	2.4	2.4	2.0	2.0	2.2	2.8	1.6
Design Fee @ 10.00%		2.2	0.3	0.4	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.2
SUBTOTAL		24.3	3.5	4.4	1.1	2.6	2.6	2.2	2.2	2.4	3.1	1.8
Air Monitoring @ 10.00%***		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
TOTAL		24.8	4.0	4.8	1.6	3.1	3.1	2.7	2.7	2.8	3.5	2.2

* 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: 2ND FLR OPEN OFFICE
 AREA 2: CORRIDOR
 AREA 3: ROOM 1
 AREA 4: ROOM 2
 AREA 5: ROOM 3
 AREA 6: ROOM 4
 AREA 7: ROOM 5
 AREA 11: WOMEN

AREA 2: BOILER ROOM
 AREA 4: EXTERIOR WALL
 AREA 6: ROOM 2
 AREA 8: ROOM 2
 AREA 10: ROOM 2

TABLE 910.5
(continued)

COST ESTIMATE* - BUILDING 910, ADMINISTRATION BLDG.

DESCRIPTION	UNIT COST (\$)	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	22.7
Boilers/Tanks (SF)	37.90	-
Air Handling Equipment (SF)	20.00	-
Other		1.5
SUBTOTAL		24.2
Difficulty Allowance		7.4
SUBTOTAL		31.7
Decontamination Units		6.0
Mobilization		2.0
SUBTOTAL		39.7
Contingency @ 15.00%		5.9
SUBTOTAL		45.6
Design Fee @ 10.00%		4.6
SUBTOTAL		50.2
Air Monitoring @ 10.00%***		5.0
TOTAL		55.2

* 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

SECTION 910.4
PHOTOGRAPHS



BLDG. 910

FIRST FLOOR: (SAMPLE FK517) WHITE 1' X 1' FLOOR TILE TESTED POSITIVE. WHITE 1' X 1' FLOOR TILE IS ALSO PRESENT ON ENTIRE SECOND FLOOR.



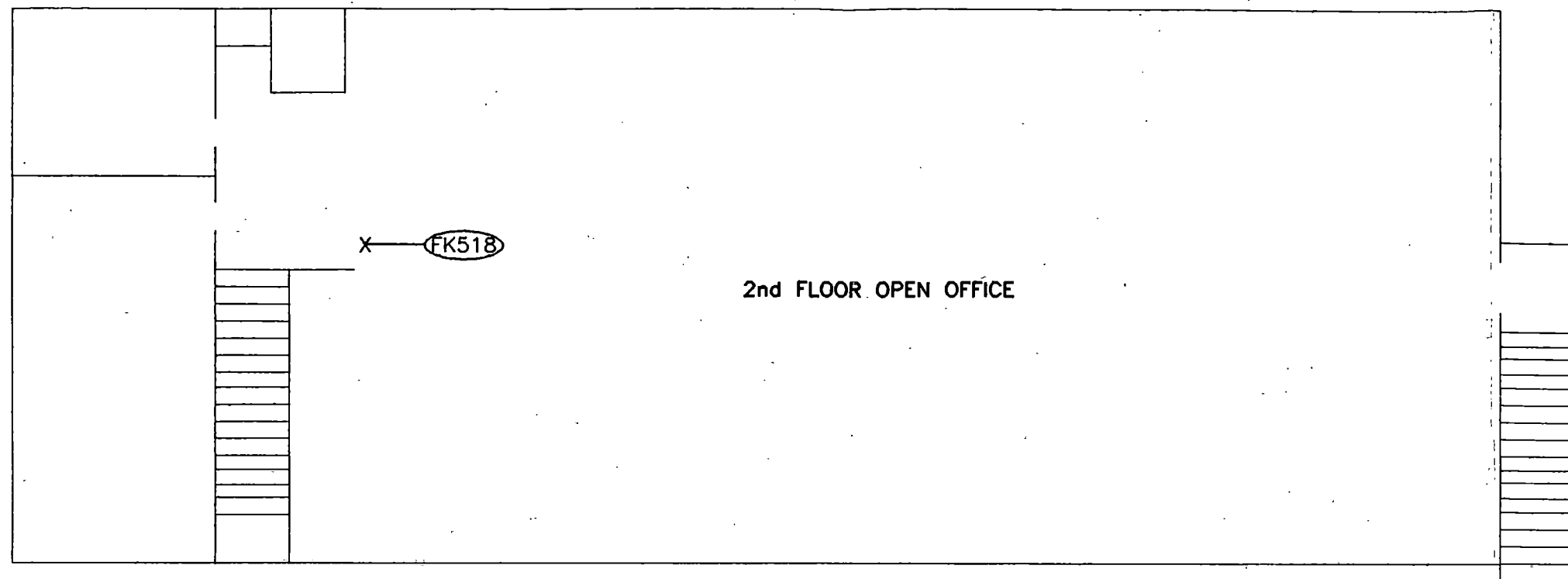
BLDG. 910

BOILER ROOM: (SAMPLE FK519) GRAY TRANSITE PANEL TESTED POSITIVE.



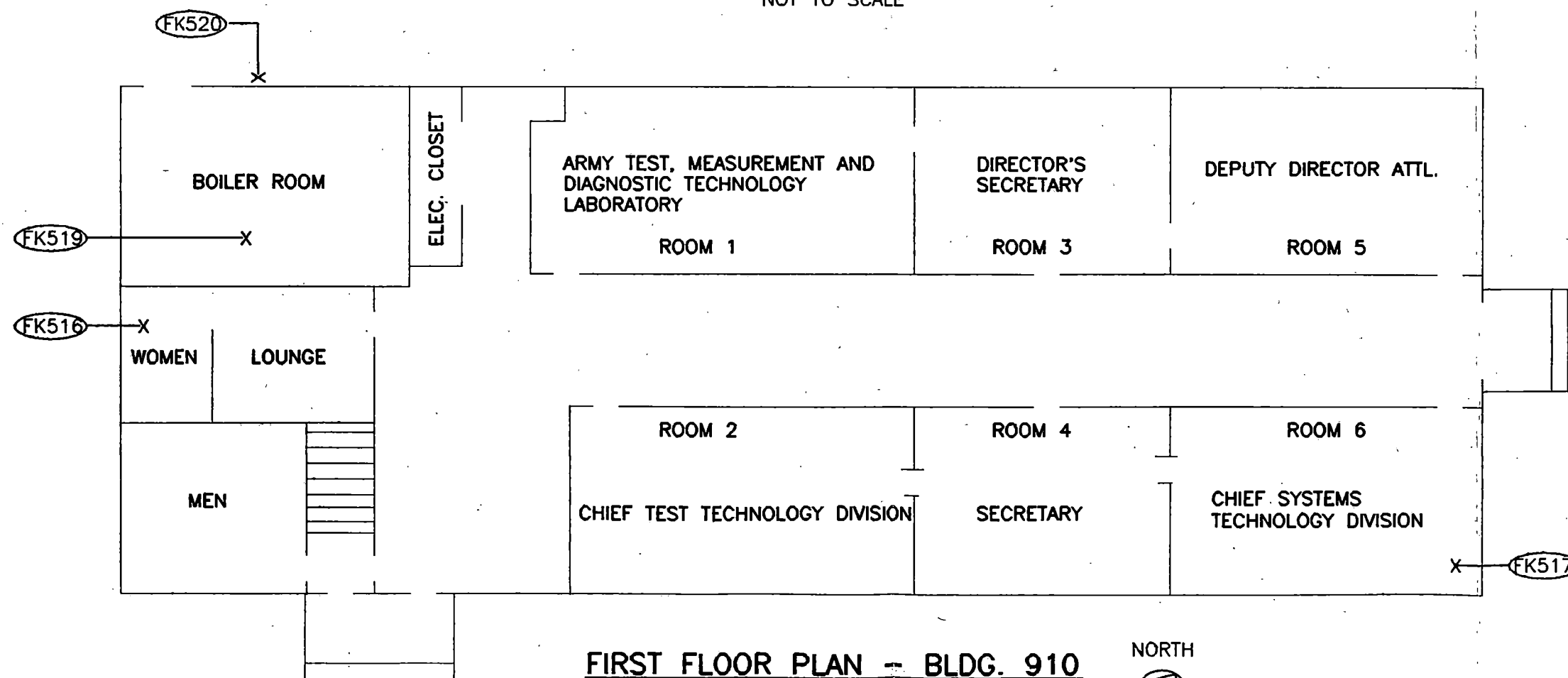
BLDG. 910

EXTERIOR WALL: (SAMPLE FK520) GRAY EXTERIOR
SIDING TESTED POSITIVE.



SECOND FLOOR PLAN - BLDG. 910

NOT TO SCALE



FIRST FLOOR PLAN - BLDG. 910

NOT TO SCALE

NORTH



LEGEND

POSITIVE SAMPLE
 NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

1004

1004
COMMISSARY

COMMISSARY

1004.1 GENERAL

Building 1004 was surveyed by WESTON technicians on 3 June 1991.

The first three portions of this facility report summarize the results of this inspection. Photographs of some sample locations are provided in Section 1004.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 28 samples of suspect material collected from the building. Of these samples, 10 were found to be asbestos-containing materials (ACM). Table 1004.1 lists the analytical results for the bulk samples.

1004.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 1004 are presented in Table 1004.1. An area-by-area inventory of ACM is provided in Tables 1004.2 and 1004.3. "Other Asbestos-Containing Materials," listed in Table 1004.3, are materials that do not correspond to the standard caption categories listed in Table 1004.2. A prioritized listing of exposure assessments is presented in Table 1004.4. The method by which the exposure assessment priority index values are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.5 of the Guide Document that accompanies this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 1004.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.4 of the Guide Document. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 1004.2 and 1004.5.

1004.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

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

TABLE 1004.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 1004, COMMISSARY

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH809	CRAWLSPACE	DEBRIS	WHITE,OTH,DEBRIS	-	-	-	NO
FH810	SALES AREA	CEILING TILE	WHITE,OTH,2X2 CL TL	-	-	-	YES
FH811	SALES AREA	CEILING TILE	WHITE,OTH,2X2 CL TL	-	-	-	NO
FH812	SALES AREA	DUPLICATE SAMPLE	WHITE,OTH,2X2 CL TL	-	-	-	NO
FH813	EAM OFFICE	ACOUSTICAL WALL TILE	WHITE,OTH,ACOUS TILE	-	-	-	NO
FH814	EAM OFFICE	DUPLICATE SAMPLE	WHITE,OTH,ACOUS TILE	-	-	-	YES
FH815	EAM OFFICE	FLOOR TILE	WHITE,OTH,1X1 FL TL	5	-	-	YES
FH816	GENERAL OFFICE	FLOOR TILE	WHITE,OTH,1X1 FL TL	5	-	1	YES
FH817	GENERAL OFFICE	CEILING TILE	WHITE,OTH,4X2 CL TL	-	-	-	YES
FH818	MENS #1	CEILING TILE	WHITE,OTH,4X2 CL TL	-	-	-	YES
FH819	MENS #1	<4" PIPE FITTING	WHITE,UNK,PIPE FITT.	1	-	-	NO
FH820	PRODUCE PREP AREA	CEILING TILE	WHITE,OTH,4X2 CL TL	-	-	-	NO
FH821	PRODUCE PREP AREA	<4" PIPE FITTING	GRAY,CHW,PIPE FITT.	1	-	-	NO
FH822	PRODUCE PREP AREA	4-8" PIPE FITTING	GRAY,CHW,PIPE FITT.	1	-	-	NO
FH823	PRODUCE PREP AREA	EXPANSION JOINT(S)	TAN,OTH,EXP CLOTH	-	-	-	YES
FH824	VET. OFC.	FLOOR TILE	BROWN,OTH,1X1 FL TL	-	-	-	YES
FH825	RECEIVING AREA #2	CEILING TILE	WHITE,OTH,CL SMOOTH	-	-	-	YES
FH826	BOILER/RECEIV.AREA 2	4-8" PIPE RUN	WHITE,CHW,PIPE RUN	1	20	-	NO
FH827	BOILER/RECEIV.AREA 2	4-8" PIPE RUN	WHITE,CHW,PIPE RUN	-	20	-	NO
FH828	MEAT PREP AREA	CEILING TILE	WHITE,OTH,2X2 CL TL	-	-	-	NO
FH829	MEAT DEPT MGR OFFICE	FLOOR TILE	GRAY,OTH,1X1 FL TL	-	-	-	NO
FH830	WASHING AREA	4-8" PIPE FITTING	WHITE,UNK,PIPE FITT	1	-	-	NO
FH831	WASHING AREA	DUPLICATE SAMPLE	WHITE,UNK,PIPE FITT	1	-	-	NO
FH832	WASHING AREA	EXPANSION JOINT(S)	GRAY,OTH,EXP. CLOTH	-	-	-	YES
FH833	DRY STORAGE AREA	EXPANSION JOINT(S)	GRAY,OTH,EXP. CLOTH	-	-	-	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 1004.1
(continued)

BULK SAMPLE ANALYSIS RESULTS - BUILDING 1004, COMMISSARY

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH834	SUPPLY ASSIST.	FLOOR TILE	TAN,OTH,1X1 FL TL	-	-	-	NO
FH835	MENS LOCKER	FLOOR TILE	GRAY,OTH,1X1 FL TL	-	-	-	YES
FH836	EMPLOYEE BREAK AREA	FLOOR TILE	WHITE,OTH,1X1 FL TL	5	-	-	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 1004.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 1004, COMMISSARY

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"					
BOILER/RECEIV.AREA 2	-	-	-	-	-	2	-	-	-	-	-	-	-
DRY STORAGE AREA	-	8	-	-	-	-	-	-	-	-	-	-	-
EAM OFFICE	-	-	-	-	-	-	-	-	-	0.30	-	-	-
EMPLOYEE BREAK AREA	-	-	-	-	-	-	-	-	-	0.30	-	-	-
GENERAL OFFICE	-	-	-	-	-	-	-	-	-	1.00	-	-	-
GENERAL/PURCHASING	5	-	-	-	-	-	-	-	-	-	-	-	-
MENS #1	5	-	-	-	-	-	-	-	-	-	-	-	-
PRODUCE PREP AREA	15	15	-	-	-	-	-	-	-	-	-	-	-
RECEIVING AREA #1	6	-	-	-	-	-	-	-	-	-	-	-	-
SERVICE CORRIDOR	-	-	-	-	-	6	-	-	-	-	-	-	-
WASHING AREA	-	3	-	-	-	-	-	-	-	-	-	-	-
WOMENS #1	5	-	-	-	-	-	-	-	-	-	-	-	-
WOMENS LOCKER	-	-	-	-	-	-	-	-	-	0.32	-	-	-
TOTALS	36	26	-	-	-	8	-	-	-	1.92	-	-	-

* Other Material Present In Various Units Of Measure

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

Table 1004.3

**Other Asbestos-Containing Material - Building 1004, Commissary
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

1004-6

TABLE 1004.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 1004, COMMISSARY

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH826	BOILER/RECEIV.AREA 2	4-8" PIPE RUN	B	5.858E02	1	3	1	2	101	40.00	21
FH827	BOILER/RECEIV.AREA 2	4-8" PIPE RUN	B	5.858E02	1	3	1	2	101	40.00	20
FH819	GENERAL/PURCHASING	<4" PIPE FITTING	B	1.010E02	1	3	1	2	101	40.00	1
FH819	MENS #1	<4" PIPE FITTING	B	1.010E02	1	3	1	2	101	40.00	1
FH819	WOMENS #1	<4" PIPE FITTING	B	1.010E02	1	3	1	2	101	40.00	1
FH821	PRODUCE PREP AREA	<4" PIPE FITTING	B	1.010E02	1	3	1	2	101	40.00	1
FH821	RECEIVING AREA #1	<4" PIPE FITTING	B	1.010E02	1	3	1	2	101	40.00	1
FH822	PRODUCE PREP AREA	4-8" PIPE FITTING	B	1.010E02	1	3	1	2	101	40.00	1
FH830	DRY STORAGE AREA	4-8" PIPE FITTING	B	1.010E02	1	3	1	2	101	40.00	1
FH830	SERVICE CORRIDOR	4-8" PIPE RUN	B	1.010E02	1	3	1	2	101	40.00	1
FH830	WASHING AREA	4-8" PIPE FITTING	B	1.010E02	1	3	1	2	101	40.00	1
FH809	CRAWLSPACE	DEBRIS	A	0	1	3	1	2	101	40.00	0
FH810	BAKERY & DELI	CEILING TILE	A	0	1	3	1	2	101	40.00	0
FH810	SALES AREA	CEILING TILE	A	0	1	3	1	2	101	40.00	0
FH810	SERVICE CORRIDOR	CEILING TILE	A	0	1	3	1	2	101	40.00	0
FH811	CASHIER	CEILING TILE	A	0	1	3	1	2	101	40.00	0
FH811	COMMISSARY OFFICE	CEILING TILE	A	0	1	3	1	2	101	40.00	0
FH811	MENS #2	CEILING TILE	A	0	1	3	1	2	101	40.00	0
FH811	SALES AREA	CEILING TILE	A	0	1	3	1	2	101	40.00	0
FH811	STORE MANAGER OFF.	CEILING TILE	A	0	1	3	1	2	101	40.00	0
FH811	WOMENS #2	CEILING TILE	A	0	1	3	1	2	101	40.00	0
FH813	EAM OFFICE	ACOUSTICAL WALL TILE	A	0	1	3	1	2	101	40.00	0
FH813	VET. OFC.	ACOUSTICAL WALL TILE	A	0	1	3	1	2	101	40.00	0
FH817	GENERAL OFFICE	CEILING TILE	A	0	1	3	1	2	101	40.00	0
FH817	JANITORS CLOSET	CEILING TILE	A	0	1	3	1	2	101	40.00	0
FH818	MENS #1	CEILING TILE	A	0	1	3	1	2	101	40.00	0
FH818	WOMENS #1	CEILING TILE	A	0	1	3	1	2	101	40.00	0
FH820	PRODUCE PREP AREA	CEILING TILE	A	0	1	3	1	2	101	40.00	0
FH820	RECEIVING AREA	CEILING TILE	A	0	1	3	1	2	101	40.00	0
FH823	PRODUCE PREP AREA	EXPANSION JOINTS	A	0	1	3	1	2	101	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 1004.4
(continued)

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 1004, COMMISSARY

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH825	RECEIVING AREA #2	CEILING TILE	A	0	1	3	1	2	101	40.00	0
FH825	SALES AREA	CEILING TILE	A	0	1	3	1	2	101	40.00	0
FH828	MEAT DEPT MGR OFFICE	CEILING TILE	A	0	1	3	1	2	101	40.00	0
FH828	MEAT PREP AREA	CEILING TILE	A	0	1	3	1	2	101	40.00	0
FH832	WASHING AREA	EXPANSION JOINTS	A	0	1	3	1	2	101	40.00	0
FH833	DRY STORAGE AREA	EXPANSION JOINTS	A	0	1	3	1	2	101	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 1004.5

COST ESTIMATE* - BUILDING 1004, COMMISSARY

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	-	-	-	-	-	0.4	0.4	1.1	0.4	-	-
4-8"	85.80	-	0.7	-	-	-	-	-	1.3	-	-	0.3
9-14"	127.00	-	-	-	-	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-	-	-	-
Pipe Runs (LF)												
<4"	26.50	-	-	-	-	-	-	-	-	-	-	-
4-8"	30.50	**	-	-	-	-	-	-	-	-	0.2	-
9-14"	22.50	-	-	-	-	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	-	-	1.7	1.7	5.6	-	-	-	-	-	-
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-	-	-	-	-
SUBTOTAL		**	0.7	1.7	1.7	5.6	0.4	0.4	2.3	0.4	0.2	0.3
Difficulty Allowance		0.2	0.3	-	0.8	2.8	0.2	0.2	4.7	0.8	0.2	0.3
SUBTOTAL		0.3	1.0	1.7	2.5	8.4	0.5	0.5	7.0	1.3	0.4	0.5
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		1.1	1.9	2.5	3.4	9.2	1.4	1.4	7.9	2.1	1.2	1.4
Contingency @ 15.00%		0.2	0.3	0.4	0.5	1.4	0.2	0.2	1.2	0.3	0.2	0.2
SUBTOTAL		1.3	2.2	2.9	3.9	10.6	1.6	1.6	9.1	2.4	1.4	1.6
Design Fee @ 10.00%		0.1	0.2	0.3	0.4	1.1	0.2	0.2	0.9	0.2	0.1	0.2
SUBTOTAL		1.4	2.4	3.2	4.3	11.7	1.7	1.7	10.0	2.7	1.5	1.7
Air Monitoring @ 10.00%***		0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
TOTAL		1.8	2.7	3.6	4.6	12.1	2.1	2.1	10.3	3.0	1.9	2.1

* 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: BOILER/RECEIV. AREA 2
 AREA 2: EAM OFFICE
 AREA 3: GENERAL OFFICE
 AREA 4: MENS #1
 AREA 5: RECEIVING AREA #1
 AREA 11: WASHING AREA

AREA 2: DRY STORAGE AREA
 AREA 4: EMPLOYEE BREAK AREA
 AREA 6: GENERAL/PURCHASING
 AREA 8: PRODUCE PREP AREA
 AREA 10: SERVICE CORRIDOR

TABLE 1004.5
(continued)

COST ESTIMATE* - BUILDING 1004, COMMISSARY

DESCRIPTION	UNIT COST (\$)	AREA 12	AREA 13	TOTAL
Pipe Fittings (EA)				
<4"	70.30	0.4	-	2.5
4-8"	85.80	-	-	2.2
9-14"	147.00	-	-	-
>14"	216.00	-	-	-
Pipe Runs (LF)				
<4"	26.50	-	-	-
4-8"	30.50	-	-	0.2
9-14"	22.50	-	-	-
>14"	60.80	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-
Floor Tile (SF)	5.60	-	1.8	10.8
Boilers/Tanks (SF)	37.90	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-
Other		-	-	-
SUBTOTAL		0.4	1.8	15.8
Difficulty Allowance		0.2	-	10.7
SUBTOTAL		0.5	1.8	26.5
Decontamination Units		0.7	0.7	2.0
Mobilization		0.2	0.2	2.0
SUBTOTAL		1.4	2.7	37.5
Contingency @ 15.00%		0.2	0.4	5.6
SUBTOTAL		1.6	3.1	43.1
Design Fee @ 10.00%		0.2	0.3	4.3
SUBTOTAL		1.7	3.4	47.4
Air Monitoring @ 10.00%***		0.4	0.4	4.7
TOTAL		2.1	3.7	52.1

*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 12: WOMENS #1

AREA 13: WOMENS LOCKER

1004-10



Northeastern Analytical Corp.

BULK SAMPLE ANALYSIS REPORT

TEST REPORT NO. NAC89A-0588

CLIENT: E-Systems, Inc./SAI

PO Box 360

JOB SITE:

Ft. Monmouth, NJ 07703

Bldg. 1004		Bldg. 1004	
Rough Surface		Plastic Coating	
SAMPLE LOCATION	C89-77	C89-78	
SAMPLE NUMBER	89A-0588-1	89A-0588-2	
ASBESTOS			
1. CHRYSOTILE	ND	ND	
2. AMOSITE	ND	ND	
3. CROCIDOLITE	ND	ND	
4. OTHER	ND	ND	
NON-ASBESTOS			
1. Cellulose	35-40%	75-80%	
2. Fibrous Glass	15-20%		
3. Perlite	10-15%	10-15%	
4. Vermiculite			
5. Quartz	3-5%	3-5%	
6. Binders	Balance	Balance	
7. Mica			
8. Synthetic Fibers			
9. Gypsum			
10. Talc			
11. Calcite			
12. Glass Beads	5-8%		

Analyst: John. CantorDate Analyzed: 3/17/89

ND: None Detected, Detection Limit: 1% EPA defines Asbestos-Containing Materials (ACM) as those containing more than 1% asbestos.

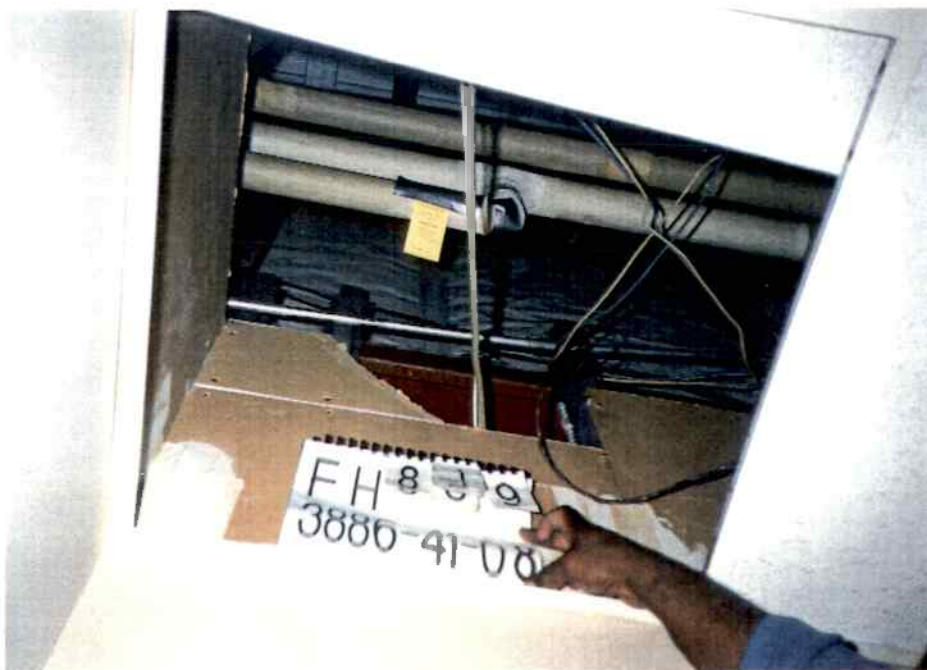
Methodology: EPA Interim method for Asbestos Identification for Bulk Sample Testing.

SECTION 1004.4
PHOTOGRAPHS



BLDG. 1004

EAM OFFICE: (SAMPLE FH815) WHITE 1' X 1' FLOOR TILE TESTED POSITIVE. THIS TILE IS ALSO PRESENT IN GENERAL/PURCHASING, AND THE EMPLOYEE BREAK AREA.



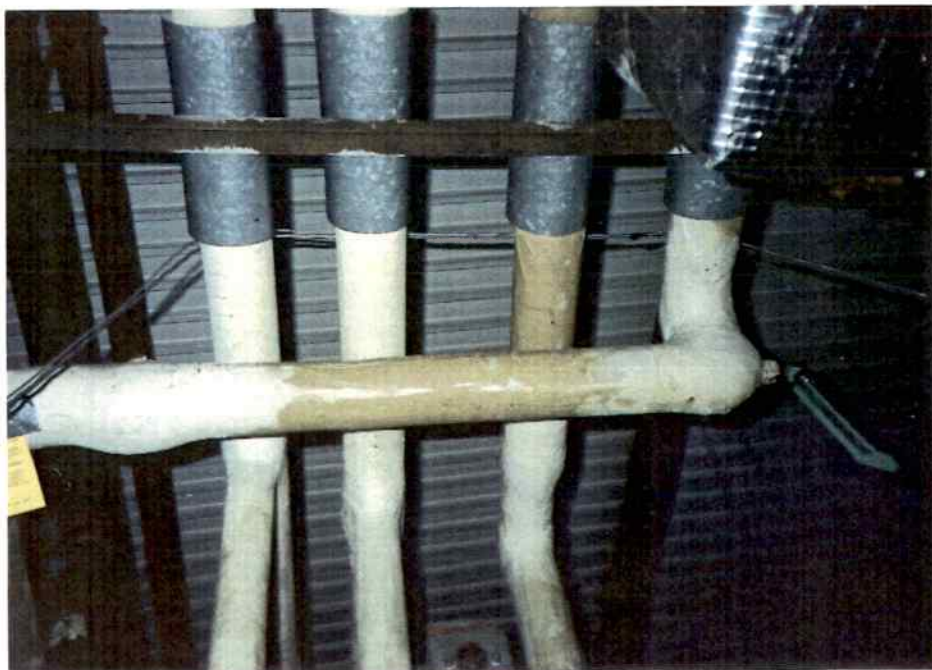
BLDG. 1004

MENS #1: (SAMPLE FH819) WHITE <4" PIPE FITTING INSULATION TESTED POSITIVE.



BLDG. 1004

PRODUCE PREP AREA: (SAMPLE FH821) GRAY LESS THAN 4" PIPE FITTING INSULATION TESTED POSITIVE.



BLDG. 1004

PRODUCE PREP AREA: (SAMPLE FH822) GRAY 4" TO 8" PIPE FITTING INSULATION TESTED POSITIVE.



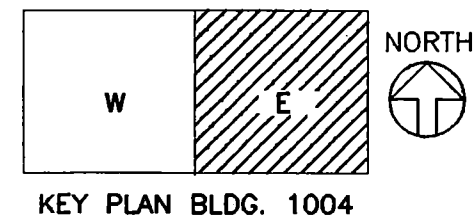
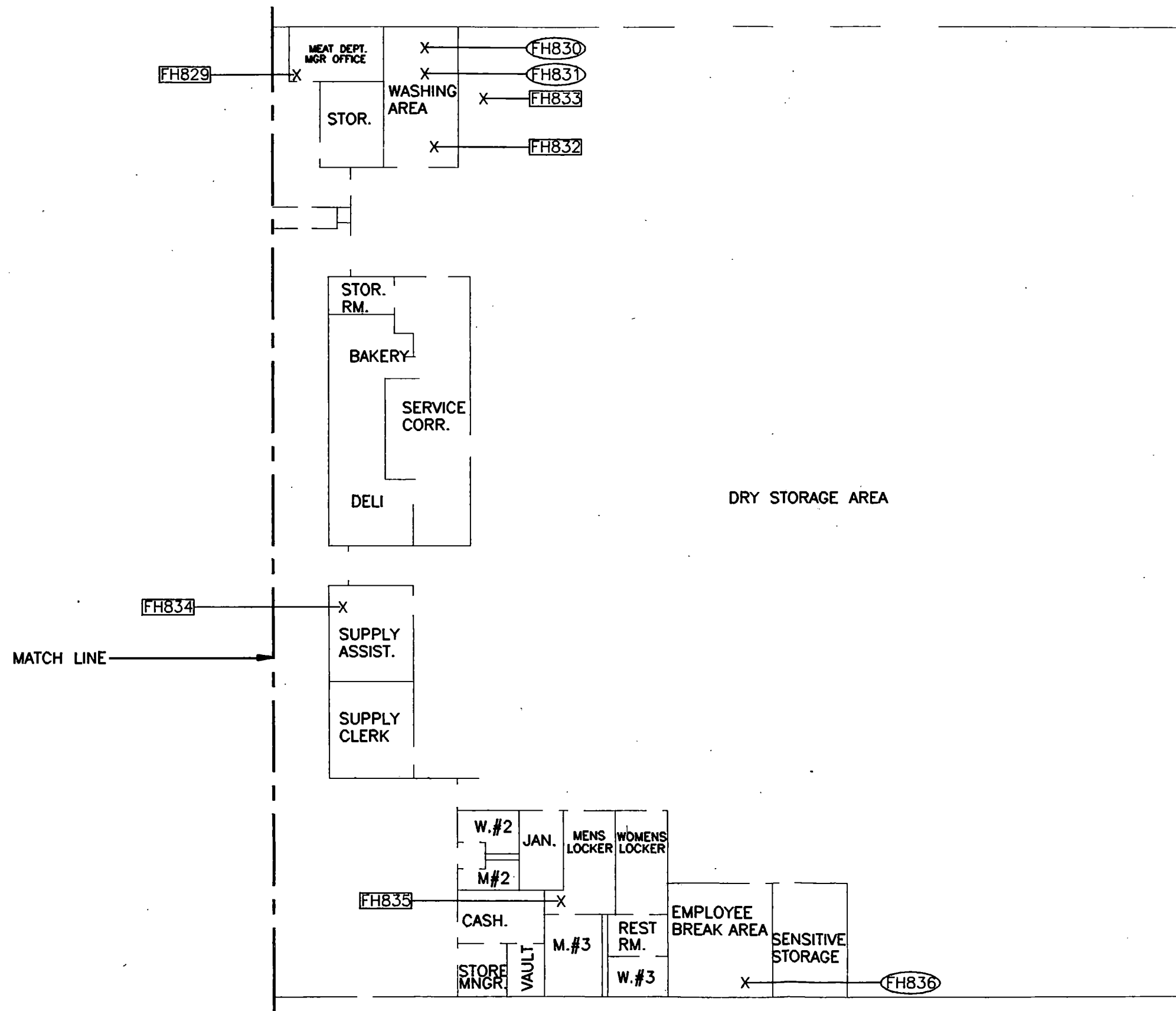
BLDG. 1004

BETWEEN RECEIVING AND BOILER ROOM: (SAMPLES FH826 AND FH827) WHITE 4" TO 8" PIPE RUN INSULATION TESTED POSITIVE.



BLDG. 1004

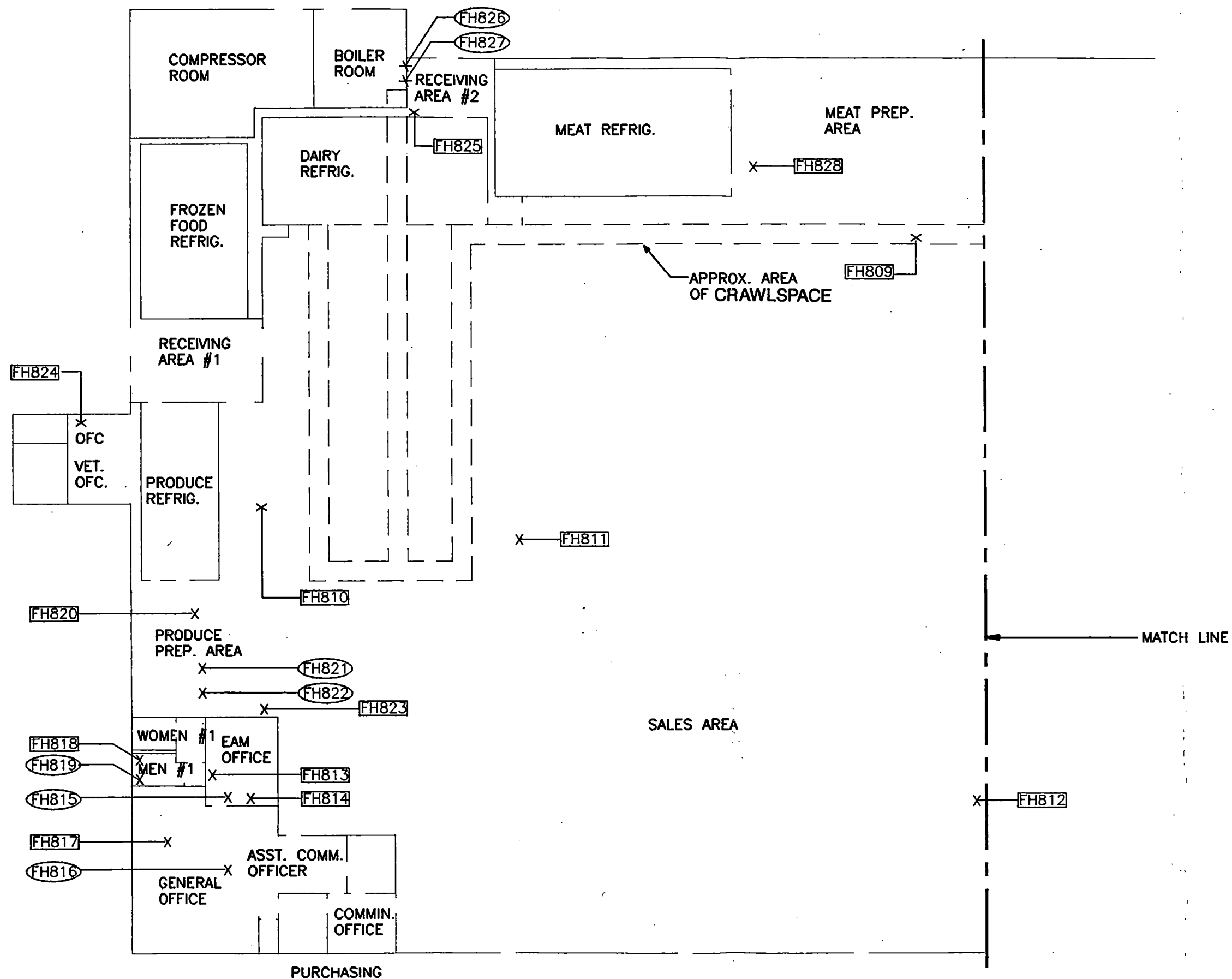
WASHING AREA: (SAMPLES FH830 AND FH831) WHITE 4" TO 8" PIPE FITTING INSULATION TESTED POSITIVE.



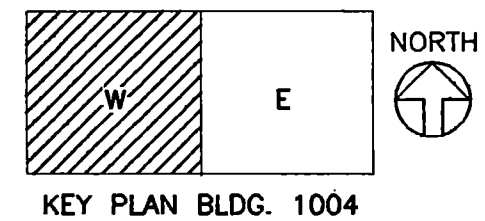
EAST FLOOR PLAN - BLDG. 1004
NOT TO SCALE

LEGEND
 (FHnnn) POSITIVE SAMPLE
 [FHnnn] NEGATIVE SAMPLE





WEST FLOOR PLAN - BLDG. 1004
NOT TO SCALE



LEGEND
 (FHnnn) POSITIVE SAMPLE
 [FHnnn] NEGATIVE SAMPLE



1213

1213

CHILD DEVELOPMENT CENTER

CHILD DEVELOPMENT CENTER

1213.1 GENERAL

Building 1213 was surveyed by WESTON technicians on 5 April 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 9 samples of suspect material collected from the building. Of these samples, 5 were found to be asbestos-containing materials (ACM). Table 1213.1 lists the analytical results for the bulk samples.

1213.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 1213 are presented in Table 1213.1. An area-by-area inventory of ACM is provided in Tables 1213.2 and 1213.3. "Other Asbestos-Containing Materials," listed in Table 1213.3, are materials that do not correspond to the standard caption categories listed in Table 1213.2. A prioritized listing of exposure assessments is presented in Table 1213.4. The method by which the exposure assessment priority index values are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.5 of the Guide Document that accompanies this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 1213.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.4 of the Guide Document. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 1213.2 and 1213.5.

1213.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

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

TABLE 1213.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 1213, CHILD DEVELOPMENT

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH747	OFFICE 1	CEILING TILE	WHITE,OTH,CL TL	-	-	-	YES
FH748	TODDLER	FLOOR TILE	GRAY,OTH,FL TL	2	-	-	NO
FH749	INFANT	FLOOR TILE	GREEN,OTH,FL TL	5	-	-	NO
FH750	KITCHEN A	FLOOR TILE	GRAY,OTH,FL TL	1	-	-	NO
FH751	ROOM 4	FLOOR TILE	TAN,OTH,FL TL	-	-	-	NO
FH752	ROOM 5	FLOOR TILE	WHITE,OTH,FL TL	2	-	-	NO
FH753	ROOM 5	FLOOR TILE	TAN,OTH,FL TL	1	-	-	NO
FH754	CORRIDOR	CEILING TILE	WHITE,OTH,CL TL	-	-	-	YES
FH755	CONNECTING CORRIDOR	FLOOR TILE	TAN,OTH,FL TL	-	-	-	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 1213.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 1213, CHILD DEVELOPMENT

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"					
Infant	-	-	-	-	-	-	-	-	-	0.02	-	-	-
Kitchen A & B	-	-	-	-	-	-	-	-	-	0.28	-	-	-
Room 3	-	-	-	-	-	-	-	-	-	0.88	-	-	-
Room 5	-	-	-	-	-	-	-	-	-	0.92	-	-	-
Room 6	-	-	-	-	-	-	-	-	-	0.99	-	-	-
Toddler	-	-	-	-	-	-	-	-	-	0.65	-	-	-
TOTALS	-	-	-	-	-	-	-	-	-	3.74	-	-	-

* Other Material Present In Various Units Of Measure

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

Table 1213.3

Other Asbestos-Containing Material - Building 1213, Child Development Center
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

1213-5

TABLE 1213.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 1213, CHILD DEVELOPMENT

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH747	Conf. Room	CEILING TILE	A	0	1	2	1	2	8	40.00	0
FH747	Infant	CEILING TILE	A	0	1	2	1	2	8	40.00	0
FH747	Office 1	CEILING TILE	A	0	1	2	1	2	8	40.00	0
FH747	Office 2	CEILING TILE	A	0	1	2	1	2	8	40.00	0
FH747	Room 3	CEILING TILE	A	0	1	2	1	2	8	40.00	0
FH747	Room 4	CEILING TILE	A	0	1	2	1	2	8	40.00	0
FH747	Room 5	CEILING TILE	A	0	1	2	1	2	8	40.00	0
FH747	Toddler	CEILING TILE	A	0	1	2	1	2	8	40.00	0
FH754	Corridor	CEILING TILE	A	0	1	2	1	2	8	40.00	0
FH754	Room 6	CEILING TILE	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 1213.5

COST ESTIMATE* - BUILDING 1213, CHILD DEVELOPMENT

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6	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	0.1	1.6	4.9	5.1	5.5	3.7	20.9
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
SUBTOTAL		0.1	1.6	4.9	5.1	5.5	3.7	20.9
Difficulty Allowance		-	-	-	-	-	1.8	1.8
SUBTOTAL		0.1	1.6	4.9	5.1	5.5	5.5	22.8
Decontamination Units Mobilization		0.5	0.5	0.5	0.5	0.5	0.5	3.0
		0.3	0.3	0.3	0.3	0.3	0.3	2.0
SUBTOTAL		0.9	2.4	5.8	6.0	6.4	6.3	27.8
Contingency @ 15.00%		0.1	0.4	0.9	0.9	1.0	0.9	4.2
SUBTOTAL		1.1	2.8	6.6	6.9	7.3	7.3	31.9
Design Fee @ 10.00%		0.1	0.3	0.7	0.7	0.7	0.7	3.2
SUBTOTAL		1.2	3.0	7.3	7.5	8.1	8.0	35.1
Air Monitoring @ 10.00%***		0.6	0.6	0.6	0.6	0.6	0.6	3.5
TOTAL		1.8	3.6	7.9	8.1	8.6	8.6	38.6

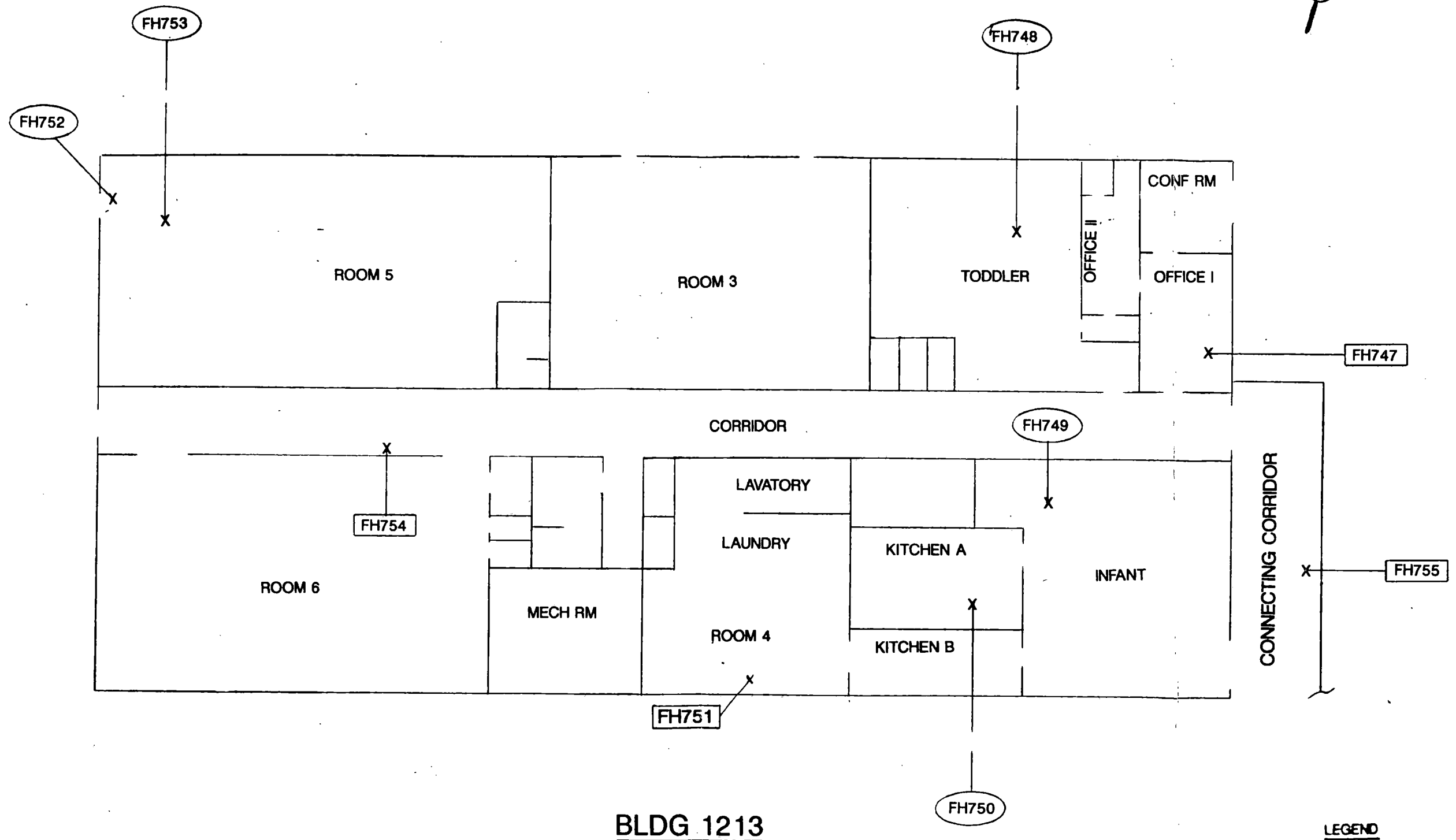
* Amounts Are In Thousands Of Dollars

** 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: Infant
 AREA 2: Room 3
 AREA 3: Room 2

AREA 2: Kitchen A & B
 AREA 3: Room 3
 AREA 6: Toddler



1214

1214

CHILD DEVELOPMENT CENTER

CHILD DEVELOPMENT CENTER**1214.1 GENERAL**

Building 1214 was surveyed by WESTON technicians on 5 April 1991.

The first three portions of this facility report summarize the results of this inspection. Photographs of some sample locations are provided in Section 1214.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 5 samples of suspect material collected from the building. Of these samples, all were found to be asbestos-containing materials (ACM). Table 1214.1 lists the analytical results for the bulk samples.

1214.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 1214 are presented in Table 1214.1. An area-by-area inventory of ACM is provided in Tables 1214.2 and 1214.3. "Other Asbestos-Containing Materials," listed in Table 1214.3, are materials that do not correspond to the standard caption categories listed in Table 1214.2. A prioritized listing of exposure assessments is presented in Table 1214.4. The method by which the exposure assessment priority index values are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.5 of the Guide Document that accompanies this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 1214.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.4 of the Guide Document. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 1214.2 and 1214.5.

1214.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

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

TABLE 1214.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 1214, CHILD DEVELOPMENT

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH756	RECEPTION AREA A,B,C	FLOOR TILE	WHITE,OTH,FL TL	3	-	-	NO
FH757	ROOM 3	FLOOR TILE	GRAY,OTH,FL TL	2	-	-	NO
FH758	MECHANICAL ROOM	<4" PIPE FITTING	WHITE,UNK,PIPE FITT.	1	-	-	NO
FH759	MECHANICAL ROOM	<4" PIPE FITTING	WHITE,CHW,PIPE FITT	3	-	-	NO
FH760	CORRIDOR	FLOOR TILE	OTHER,OTH,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 1214.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 1214, CHILD DEVELOPMENT

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	-	-	-	-	-	-	-	-	-	0.83	-	-	-
Kitchen	-	-	-	-	-	-	-	-	-	0.36	-	-	-
Mechanical Room	4	-	-	-	-	-	-	-	-	-	-	-	-
Preschool	-	-	-	-	-	-	-	-	-	0.83	-	-	-
Reception Area A,B,C	-	-	-	-	-	-	-	-	-	0.44	-	-	-
Room 2	-	-	-	-	-	-	-	-	-	0.83	-	-	-
Room 3	-	-	-	-	-	-	-	-	-	0.73	-	-	-
Room 4	-	-	-	-	-	-	-	-	-	0.83	-	-	-
Room 5	-	-	-	-	-	-	-	-	-	0.55	-	-	-
Room 6	-	-	-	-	-	-	-	-	-	1.09	-	-	-
TOTALS	4	-	-	-	-	-	-	-	-	6.49	-	-	-

* Other Material Present In Various Units Of Measure

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

Table 1214.3

**Other Asbestos-Containing Material - Building 1214, Child Development Center
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

1214-5

TABLE 1214.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 1214, CHILD DEVELOPMENT

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH758	Mechanical Room	<4" PIPE FITTING	A	7.250E00	2	2	2	1	1	5.00	1
FH759	Mechanical Room	<4" PIPE FITTING	A	7.250E00	2	2	2	1	1	5.00	3
FH747	Corridor	CEILING TILE	A	0	1	2	1	2	8	40.00	0
FH747	Rooms(All but Mech.)	CEILING TILE	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 1214.5

COST ESTIMATE* - BUILDING 1214, CHILD DEVELOPMENT

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6	AREA 7	AREA 8	AREA 9	AREA 10	TOTAL
Pipe Fittings (EA)												
<4"	70.30	-	-	0.3	-	-	-	-	-	-	-	0.3
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	4.7	2.0	-	4.7	2.4	4.7	4.1	4.7	3.1	6.1	36.3
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-
SUBTOTAL		4.7	2.0	0.3	4.7	2.4	4.7	4.1	4.7	3.1	6.1	36.6
Difficulty Allowance		2.3	-	-	-	-	-	-	-	-	-	2.3
SUBTOTAL		7.0	2.0	0.3	4.7	2.4	4.7	4.1	4.7	3.1	6.1	38.9
Decontamination Units		0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	3.0
Mobilization		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2.0
SUBTOTAL		7.5	2.5	0.8	5.2	2.9	5.2	4.6	5.2	3.6	6.6	43.9
Contingency @ 15.00%		1.1	0.4	0.1	0.8	0.4	0.8	0.7	0.8	0.5	1.0	6.6
SUBTOTAL		8.6	2.9	0.9	5.9	3.4	5.9	5.3	5.9	4.1	7.6	50.5
Design Fee @ 10.00%		0.9	0.3	**	0.6	0.3	0.6	0.5	0.6	0.4	0.8	5.1
SUBTOTAL		9.5	3.2	1.0	6.5	3.7	6.5	5.8	6.5	4.5	8.4	55.6
Air Monitoring @ 10.00%***		0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	5.6
TOTAL		10.0	3.7	1.5	7.1	4.3	7.1	6.3	7.1	5.1	8.9	61.2

* Amounts Are In Thousands Of Dollars

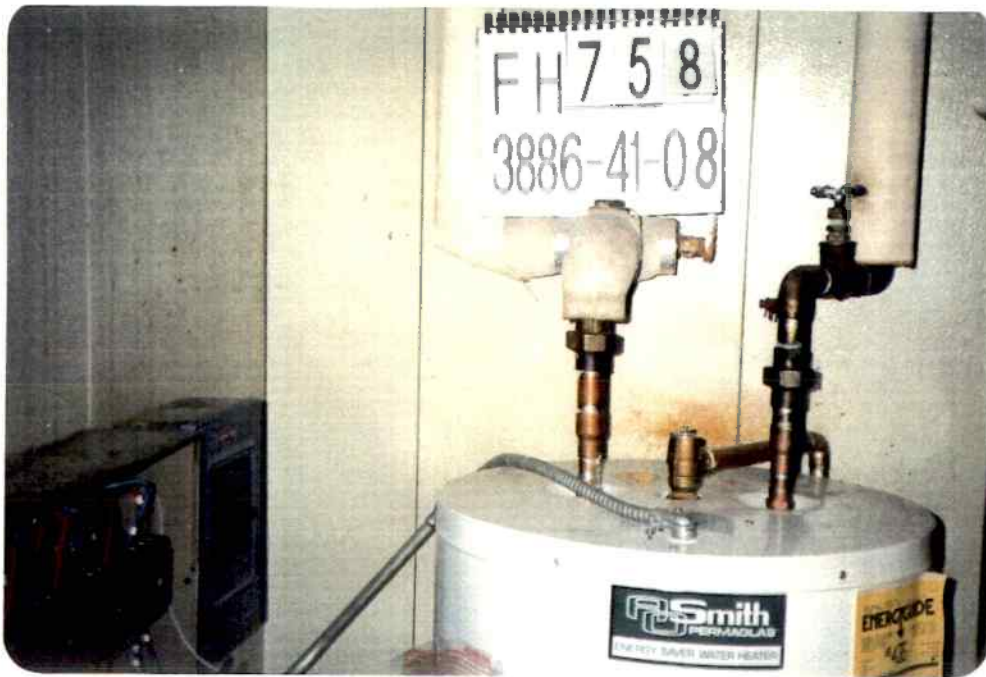
** Less Than \$100 For The Area; Amount Not Printed But Included In Total(s)

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

AREA 1: Corridor
 AREA 3: Mechanical Room
 AREA 5: Reception Area A,B,C
 AREA 7: Room 3
 AREA 9: Room 5

AREA 2: Kitchen
 AREA 4: Preschool
 AREA 6: Room 2
 AREA 8: Room 4
 AREA 10: Room 6

SECTION 1214.4
PHOTOGRAPHS



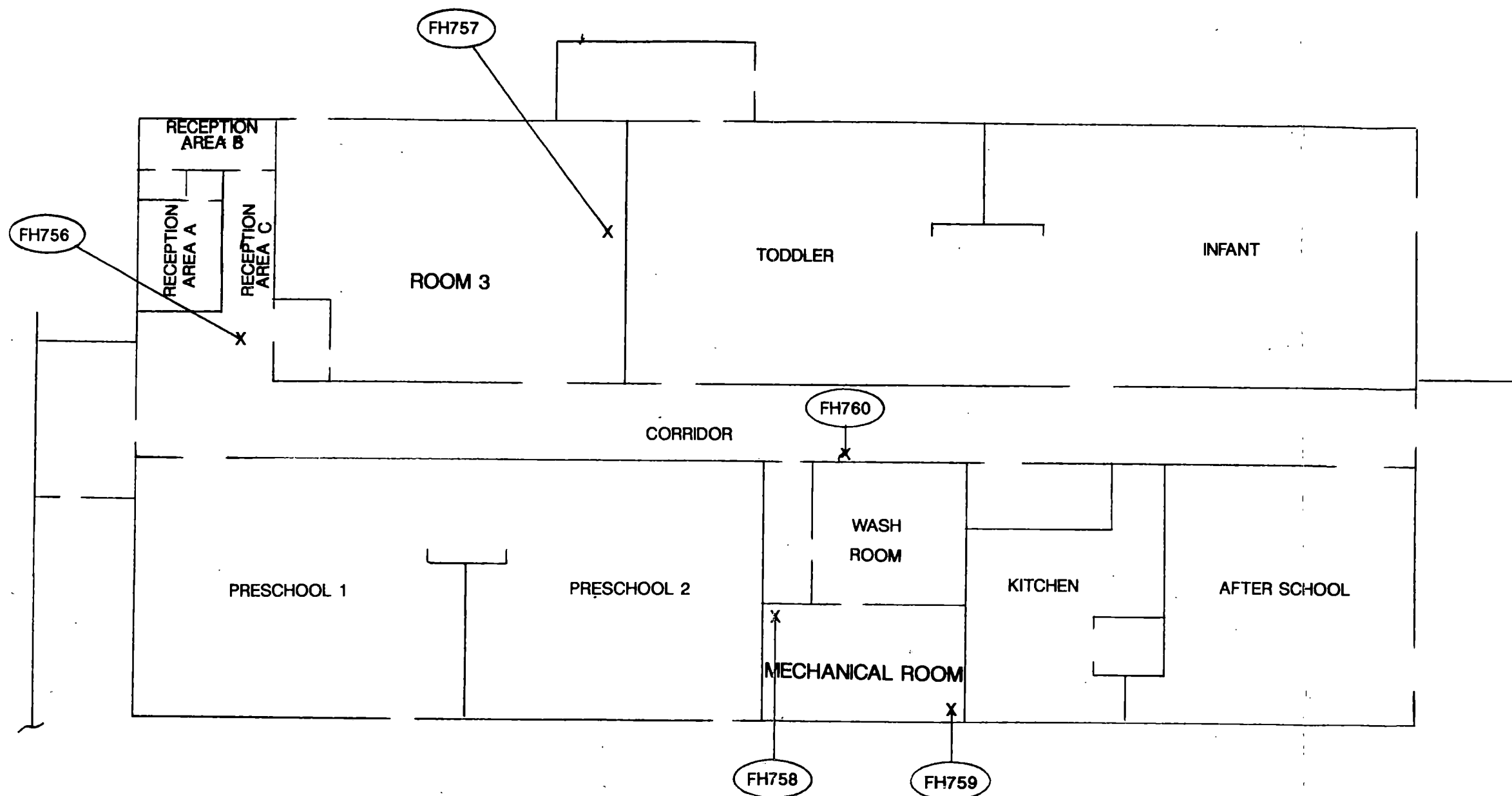
BLDG. 1214

MECHANICAL ROOM: (SAMPLE FH758)
LESS THAN 4" PIPE FITTING INSULATION
TESTED POSITIVE.



BLDG. 1214

MECHANICAL ROOM: (SAMPLE FH759)
LESS THAN 4" PIPE FITTING INSULATION
TESTED POSITIVE.



BLDG 1214

LEGEND

- FHnnn POSITIVE SAMPLE
- FHnnn NEGATIVE SAMPLE



1215

1215
POST THEATER

1215

POST THEATER

1215.1 GENERAL

Building 1215 was surveyed by WESTON technicians on 11 June 1991.

The first three portions of this facility report summarize the results of this inspection. Photographs of some sample locations are provided in Section 1215.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 19 samples of suspect material collected from the building. Of these samples, 9 were found to be asbestos-containing materials (ACM). Table 1215.1 lists the analytical results for the bulk samples.

1215.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 1215 are presented in Table 1215.1. An area-by-area inventory of ACM is provided in Tables 1215.2 and 1215.3. "Other Asbestos-Containing Materials," listed in Table 1215.3, are materials that do not correspond to the standard caption categories listed in Table 1215.2. A prioritized listing of exposure assessments is presented in Table 1215.4. The method by which the exposure assessment priority index values are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.5 of the Guide Document that accompanies this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 1215.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.4 of the Guide Document. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 1215.2 and 1215.5.

1215.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

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

TABLE 1215.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 1215, POST THEATER

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH985	CONCESSION AREA	CEILING TILE	WHITE,OTH,CEIL. TILE	-	-	-	YES
FH986	CONCESSION AREA	CEILING TILE	WHITE,OTH,CEIL. TILE	-	-	-	YES
FH987	FOYER	DUPLICATE SAMPLE	WHITE,OTH,CEIL. TILE	-	-	-	YES
FH988	PROJ. RM - BATHROOM	FLOOR TILE	GRAY,OTH,9X9 FL TL	5	-	-	YES
FH989	PROJECTION ROOM	CEILING TILE	WHITE,OTH,1X1 CL TL	-	-	-	YES
FH990	CORRIDOR 221	FLOOR TILE	RED,OTH,9X9 FL TL	5	-	-	YES
FH991	MENS DRESSING ROOM	FLOOR TILE	WHITE,OTH,9X9 FL TL	3	-	-	YES
FH992	WOMENS DRESSING RM	FLOOR TILE	WHITE,OTH,9X9 FL TL	3	-	1	YES
FH993	THEATER ATTIC AREA	4-8" PIPE FITTING	WHITE,UNK,4-8" FITT.	2	-	-	NO
FH994	THEATER ATTIC AREA	DUPLICATE SAMPLE	WHITE,UNK,4-8" FITT.	1	-	-	YES
FH995	THEATER ATTIC AREA	<4" PIPE FITTING	WHITE,UNK,<4" FITT.	1	-	-	YES
FH996	THEATER ATTIC AREA	DUPLICATE SAMPLE	WHITE,UNK,<4" FITT.	-	-	-	YES
FH997	THEATER ATTIC AREA	<4" PIPE FITTING	WHITE,UNK,<4" FITT.	-	-	-	NO
FH998	THEATER ATTIC AREA	OTHER MATERIAL	BLACK,OTH,FIBERBOARD	-	-	-	YES
FH999	BOILER ROOM	9-14" PIPE RUN	WHITE,UNK,9-14" PIPE	10	20	-	NO
FK500	A/C ROOM	4-8" PIPE FITTING	WHITE,CHW,4-8" FITT.	-	-	-	NO
FK501	A/C ROOM	DUPLICATE SAMPLE	WHITE,CHW,4-8" FITT.	-	-	-	NO
FK502	A/C ROOM	<4" PIPE FITTING	WHITE,CHW,<4" FITT.	-	-	-	NO
FK503	A/C ROOM	<4" PIPE FITTING	WHITE,CHW,<4" FITT.	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 1215.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 1215, POST THEATER

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"					
A/C ROOM	30	21	-	-	-	-	-	-	-	-	-	-	-
BOILER ROOM	50	12	-	-	-	-	37	-	-	-	-	-	-
CORRIDOR 221	-	-	-	-	-	-	-	-	-	0.11	-	-	-
MENS DRESSING ROOM	-	-	-	-	-	-	-	-	-	0.15	-	-	-
PROJ. RM - BATHROOM	-	-	-	-	-	-	-	-	-	0.49	-	-	-
THEATER ATTIC AREA	20	7	-	-	-	-	-	-	-	-	-	-	-
WOMENS DRESSING RM	-	-	-	-	-	-	-	-	-	0.21	-	-	-
TOTALS	100	40	-	-	-	-	37	-	-	0.96	-	-	-

* Other Material Present In Various Units Of Measure

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

Table 1215.3

**Other Asbestos-Containing Material - Building 1215, Post Theater
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

1215-5

TABLE 1215.4
EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 1215, POST THEATER

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH993	THEATER ATTIC AREA	4-8" PIPE FITTING	B	2.590E02	1	2	1	2	1000	28.00	2
FH995	THEATER ATTIC AREA	<4" PIPE FITTING	B	2.590E02	1	2	1	2	1000	28.00	1
FH999	BOILER ROOM	9-14" PIPE RUN	A	2.750E-5	1	1	1	1	1	1.00	30
FH993	A/C ROOM	4-8" PIPE FITTING	A	5.000E-6	1	1	1	1	1	1.00	2
FH993	BOILER ROOM	4-8" PIPE FITTING	A	5.000E-6	1	1	1	1	1	1.00	2
FH995	BOILER ROOM	<4" PIPE FITTING	A	5.000E-6	1	1	1	1	1	1.00	1
FK503	A/C ROOM	<4" PIPE FITTING	A	5.000E-6	1	1	1	1	1	1.00	1
FH985	CONCESSION AREA	CEILING TILE	A	0	1	2	1	2	1000	28.00	0
FH986	CONCESSION AREA	CEILING TILE	A	0	1	2	1	2	1000	28.00	0
FH989	PROJECTION ROOM	CEILING TILE	A	0	1	2	1	2	1000	28.00	0
FH997	THEATER ATTIC AREA	<4" PIPE FITTING	A	0	1	2	1	2	1000	28.00	0
FH998	THEATER ATTIC AREA	INSULATION BOARD	A	0	1	2	1	2	1000	28.00	0
FK500	A/C ROOM	4-8" PIPE FITTING	A	0	1	1	1	1	1	1.00	0
FK502	A/C ROOM	<4" PIPE FITTING	A	0	1	1	1	1	1	1.00	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 1215.5

COST ESTIMATE* - BUILDING 1215, POST THEATER

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6	AREA 7	TOTAL
Pipe Fittings (EA)									
<4"	70.30	2.1	3.5	-	-	-	1.4	-	7.0
4-8"	85.80	1.8	1.0	-	-	-	0.6	-	3.4
9-14"	147.00	-	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-	-
Pipe Runs (LF)									
<4"	26.50	-	-	-	-	-	-	-	-
4-8"	30.50	-	-	-	-	-	-	-	-
9-14"	42.50	-	1.6	-	-	-	-	-	1.6
>14"	60.80	-	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	-	-	0.6	0.9	2.7	-	1.2	5.4
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-	-
SUBTOTAL		3.9	6.1	0.6	0.9	2.7	2.0	1.2	17.4
Difficulty Allowance		1.8	6.3	-	-	-	4.0	-	12.1
SUBTOTAL		5.7	12.4	0.6	0.9	2.7	6.0	1.2	29.6
Decontamination Units Mobilization		1.3	1.3	1.3	1.3	1.3	1.3	1.3	9.0
		0.3	0.3	0.3	0.3	0.3	0.3	0.3	2.0
SUBTOTAL		7.3	14.0	2.2	2.4	4.3	7.6	2.7	40.6
Contingency @ 15.00%		1.1	2.1	0.3	0.4	0.6	1.1	0.4	6.1
SUBTOTAL		8.4	16.1	2.5	2.8	4.9	8.7	3.2	46.6
Design Fee @ 10.00%		0.8	1.6	0.3	0.3	0.5	0.9	0.3	4.7
SUBTOTAL		9.2	17.7	2.8	3.1	5.4	9.6	3.5	51.3
Air Monitoring @ 10.00%***		0.7	0.7	0.7	0.7	0.7	0.7	0.7	5.1
TOTAL		9.9	18.4	3.5	3.8	6.2	10.3	4.2	56.4

*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: A/C ROOM
 AREA 3: CORRIDOR 221
 AREA 5: PROJ. RM - BATHROOM
 AREA 7: WOMENS DRESSING RM

AREA 2: BOILER ROOM
 AREA 4: MENS DRESSING ROOM
 AREA 6: THEATER ATTIC AREA

SECTION 1215.4
PHOTOGRAPHS



BLDG. 1215

PROJECTION ROOM-BATHROOM: (SAMPLE FH988)
GRAY 9" X 9" FLOOR TILE TESTED POSITIVE.



BLDG. 1215

THEATER ATTIC: (SAMPLE FH993) WHITE 4" TO 8"
PIPE FITTING INSULATION TESTED POSITIVE. WHITE
4" TO 8" PIPE FITTING INSULATION IS ALSO
PRESENT IN THE BOILER ROOM AND A/C ROOM.



BLDG. 1215

THEATER ATTIC: (SAMPLE FH995) WHITE <4" PIPE FITTING INSULATION TESTED POSITIVE. WHITE <4" PIPE FITTING INSULATION IS ALSO PRESENT IN BOILER ROOM.



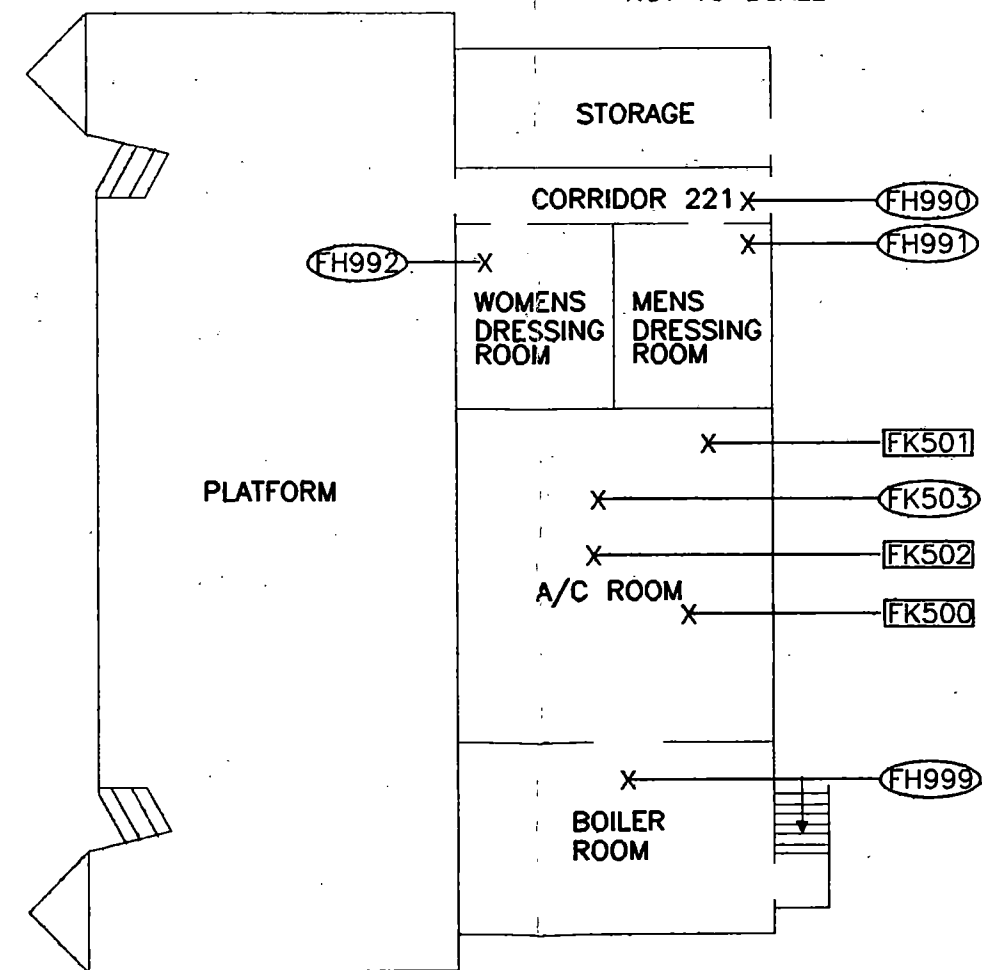
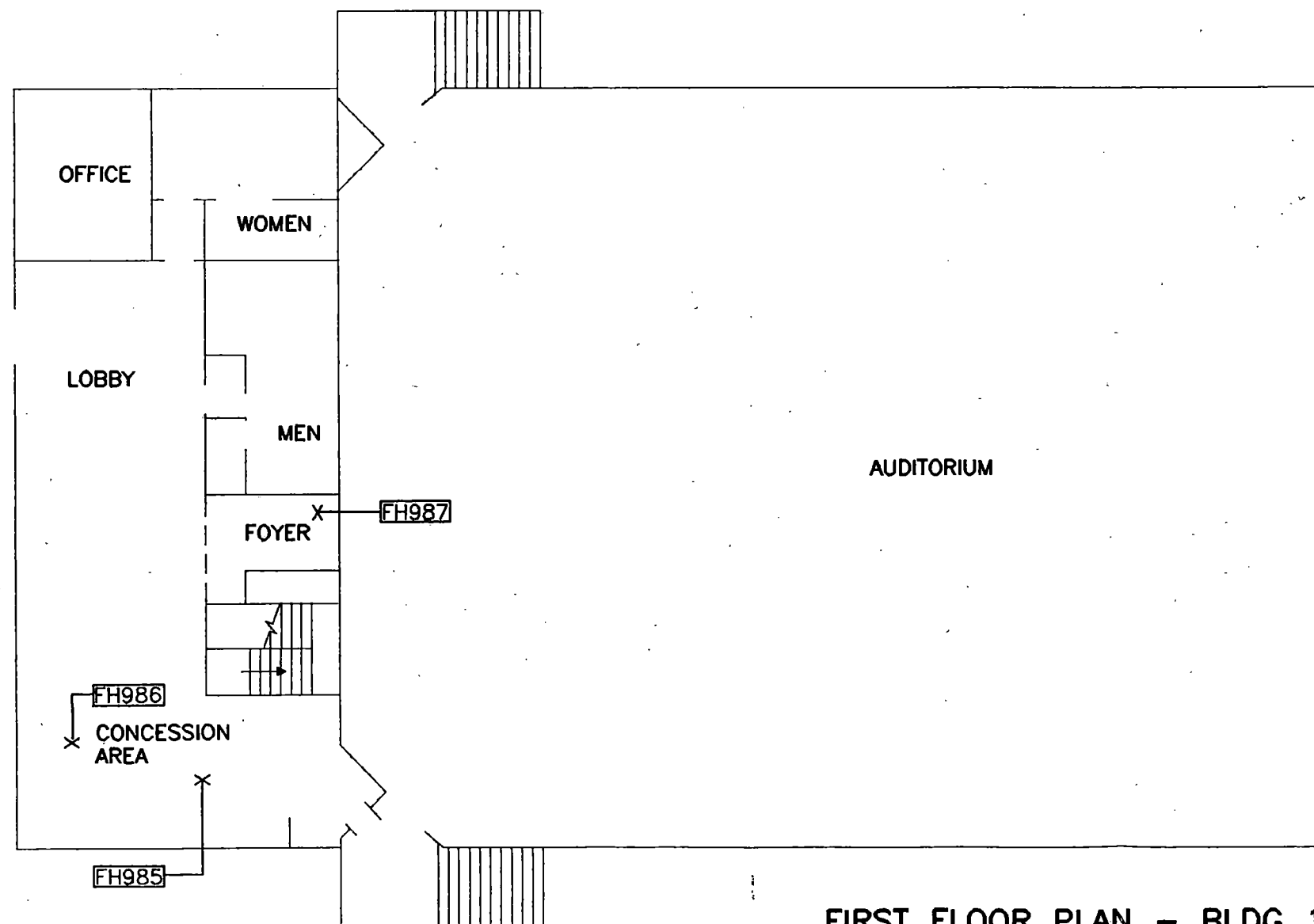
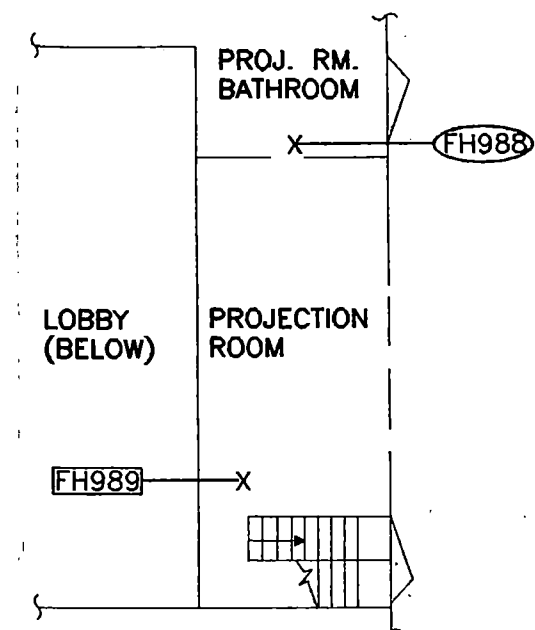
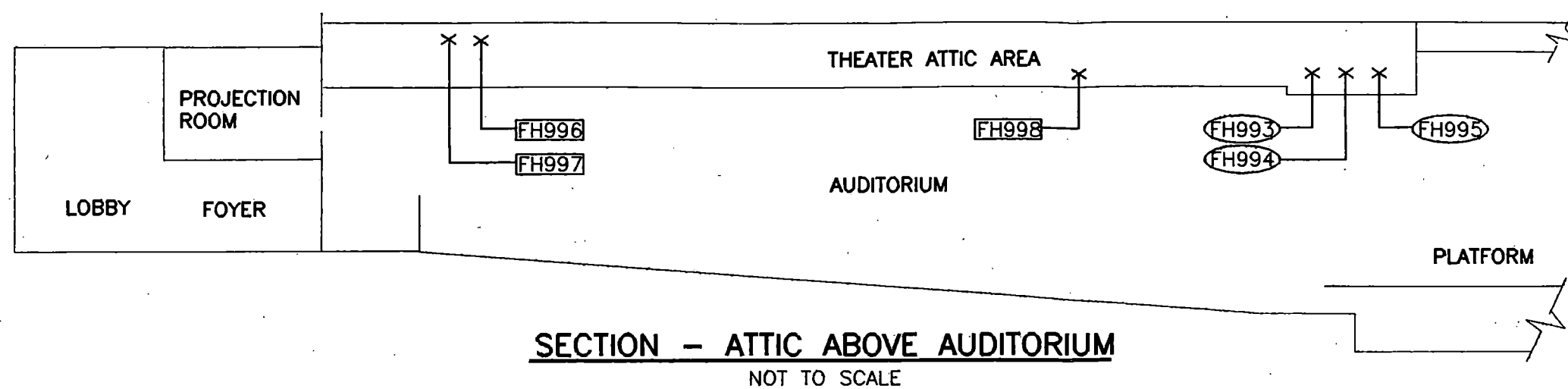
BLDG. 1215

BOILER ROOM: (SAMPLE FH999) WHITE 9"-14" PIPE INSULATION TESTED POSITIVE.



BLDG. 1215

A/C ROOM : (SAMPLE FH503) WHITE PIPE FITTING
INSULATION TESTED POSITIVE.



2337

2337
THEATER

THEATER**2337.1 GENERAL**

Building 2337 was surveyed by WESTON technicians on 2 April 1991.

The first three portions of this facility report summarize the results of this inspection. Photographs of some sample locations are provided in Section 2337.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 17 samples of suspect material collected from the building. Of these samples, 9 were found to be asbestos-containing materials (ACM). Table 2337.1 lists the analytical results for the bulk samples.

2337.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 2337 are presented in Table 2337.1. An area-by-area inventory of ACM is provided in Tables 2337.2 and 2337.3. "Other Asbestos-Containing Materials," listed in Table 2337.3, are materials that do not correspond to the standard caption categories listed in Table 2337.2. A prioritized listing of exposure assessments is presented in Table 2337.4. The method by which the exposure assessment priority index values are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.5 of the Guide Document that accompanies this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 2337.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.4 of the Guide Document. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 2337.2 and 2337.5.

2337.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- All asbestos-containing pipe fitting insulation, pipe run insulation, floor tile, air handling equipment, transite panel, and expansion joints should be labeled under the O&M Program.

TABLE 2337.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 2337, THEATER

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH678	PROJECTION ROOM	FLOOR TILE	TAN,OTH,FL TL	2	-	-	NO
FH679	PROJECTION ROOM	TRANSITE PANEL BOARD	GRAY,OTH,TRAN. PANL	40	-	-	NO
FH680	FOYER/LOBBY	FLOOR TILE	TAN,OTH,FL TL	5	-	-	NO
FH681	AUDITORIUM	FLOOR TILE	TAN,OTH,FL TL	5	-	-	NO
FH682	FOYER/LOBBY	FLOOR TILE	GREEN,OTH,FL TL	5	-	-	NO
FH683	FOYER/LOBBY	CEILING TILE	WHITE,OTH,CL TL	-	-	-	NO
FH684	AUDITORIUM	ACOUSTICAL WALL TILE	WHITE,OTH,ACOUS. TIL	-	-	-	NO
FH685	AUDITORIUM	OTHER MATERIAL	BLACK,OTH,MASTIC/SEA	-	-	-	NO
FH686	AUDITORIUM	ACOUSTICAL WALL TILE	GREEN,OTH,ACOUS. TIL	-	-	-	NO
FH687	JAN. CLOSET SOUTH	AIR HANDLING EQUIPMENT	GRAY,OTH,AIR HD/DUC	40	-	-	NO
FH688	PROJECTION ROOM	EXPANSION JOINT(S)	GRAY,OTH,EXP. CLOTH	40	-	-	NO
FH689	AUDITORIUM STAGE	OTHER MATERIAL	OTHER,OTH,FIRE CURT.	-	-	-	NO
FH690	AUDITORIUM STAGE	OTHER MATERIAL	TAN,OTH,FIRE CURT.	-	-	-	NO
FH691	EXT. ROOF	OTHER MATERIAL	BLACK,OTH,SHINGLES	-	-	-	NO
FH692	MECH. ROOM	4-8" PIPE FITTING	GRAY,UNK,PIPE FITT	50	-	-	NO
FH693	MECH. ROOM	4-8" PIPE RUN	GRAY,UNK,PIPE RUN	45	-	-	NO
FH694	AUDITORIUM	CEILING TILE	WHITE,OTH,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 2337.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 2337, THEATER

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"					
Auditorium	-	-	-	-	-	-	-	-	-	3.20	-	-	-
Foyer/Lobby Rest Rm.	-	-	-	-	-	-	-	-	-	0.80	-	-	-
Jan. Closet North	-	-	-	-	-	-	-	-	-	-	-	0.01	-
Jan. Closet South	-	-	-	-	-	-	-	-	-	-	-	0.01	-
Mech. Room	-	7	-	-	-	40	-	-	-	-	-	-	-
Projection Room	-	-	-	-	-	-	-	-	-	0.69	-	-	*
TOTALS	-	7	-	-	-	40	-	-	-	4.69	-	0.02	*

* Other Material Present In Various Units Of Measure

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

Table 2337.3

Other Asbestos-Containing Material - Building 2337, Theater
Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
Projection Room	Transite Panel Expansion Joints	0.300 (MSF) 2.0 EA

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

2337-5

TABLE 2337.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2337, THEATER

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH692	Mech. Room	4-8" PIPE FITTING	B	3.750E02	3	3	2	1	1	1.00	50
FH693	Mech. Room	4-8" PIPE RUN	B	3.750E02	3	3	2	1	1	1.00	45
FH683	Foyer/Lobby Rest Rm.	CEILING TILE	A	0	3	1	2	1	1	0.00	0
FH684	Auditorium	ACOUSTICAL WALL TILE	A	0	3	1	2	1	1	0.00	0
FH685	Auditorium	PLASTER CEILINGS & WALLS	A	0	3	1	2	1	1	0.00	0
FH686	Auditorium	ACOUSTICAL WALL TILE	A	0	3	1	2	1	1	0.00	0
FH687	Jan. Closet North	AIR HANDLING EQUIPMENT	A	0	3	1	2	1	1	0.00	40
FH687	Jan. Closet South	AIR HANDLING EQUIPMENT	A	0	3	1	2	1	1	0.00	40
FH688	Projection Room	EXPANSION JOINTS	A	0	3	1	2	1	1	0.00	40
FH694	Auditorium	CEILING TILE	A	0	3	3	2	1	1	1.00	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 2337.5

COST ESTIMATE* - BUILDING 2337, THEATER

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6	TOTAL
Pipe Fittings (EA)								
<4"	70.30	-	-	-	-	-	-	-
4-8"	85.80	-	-	-	-	0.6	-	0.6
9-14"	147.00	-	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-	-
Pipe Runs (LF)								
<4"	26.50	-	-	-	-	-	-	-
4-8"	30.50	-	-	-	-	1.2	-	1.2
9-14"	22.50	-	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-	-
Floor Tile (SF)	5.60	17.9	4.5	-	-	-	3.8	26.3
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	0.2	0.2	-	-	0.5
Other	-	-	-	-	-	-	0.6	0.6
SUBTOTAL		17.9	4.5	0.2	0.2	1.8	4.4	29.2
Difficulty Allowance		-	-	-	-	0.9	-	0.9
SUBTOTAL		17.9	4.5	0.2	0.2	2.7	4.4	30.1
Decontamination Units		0.5	0.5	0.5	0.5	0.5	0.5	3.0
Mobilization		0.3	0.3	0.3	0.3	0.3	0.3	2.0
SUBTOTAL		18.8	5.3	1.1	1.1	3.6	5.3	35.1
Contingency @ 15.00%		2.8	0.8	0.2	0.2	0.5	0.8	5.3
SUBTOTAL		21.6	6.1	1.2	1.2	4.1	6.1	40.3
Design Fee @ 10.00%		2.2	0.6	0.1	0.1	0.4	0.6	4.0
SUBTOTAL		23.7	6.7	1.4	1.4	4.5	6.7	44.4
Air Monitoring @ 10.00%***		0.7	0.7	0.7	0.7	0.7	0.7	4.4
TOTAL		24.5	7.5	2.1	2.1	5.2	7.4	48.8

* 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: Auditorium
 AREA 3: Jan. Closet North
 AREA 5: Mech. Room

AREA 2: Foyer/Lobby Rest. Rm.
 AREA 4: Jan. Closet South
 AREA 6: Projection Room



NORTHEASTERN ANALYTICAL CORPORATION

BULK SAMPLE ANALYSIS REPORT

CLIENT: E-Systems, Inc.

NAC #: A1-1232-013

FACILITY:

Bldg. 362
Rm 225 + 227

Bldg. 2337

SAMPLE DESCRIPTION AND LOCATION:	C91-456 Floor Tile	C91-457 Ceiling Tile	
SAMPLE NUMBER:	01	02	
ASBESTOS:			
Chrysotile	10-12%	ND	
Amosite	ND	ND	
Crocidolite	ND	ND	
Other	ND	ND	
NON-ASBESTOS:			
Cellulose		10-15%	
Fibrous Glass		70-75%	
Quartz			
Binders	BALANCE	BALANCE	
Calcite	30-35%		
Perlite			
Vermiculite			
Synthetic Fibers			
Gypsum			
Mica			
Talc			
Other			

ANALYST: *Paul M. Scott*

DATE: 3-14-91

ND: NONE DETECTED. Detection Limit: 1% EPA defines Asbestos-Containing Materials (ACM) as those containing greater than 1% asbestos.

Methodology: "Interim Method for the Determination of Asbestos in Bulk Insulation Samples," 40 CFR Chapter 1 (1-1-87) Part 763, Subpart F, Appendix A.

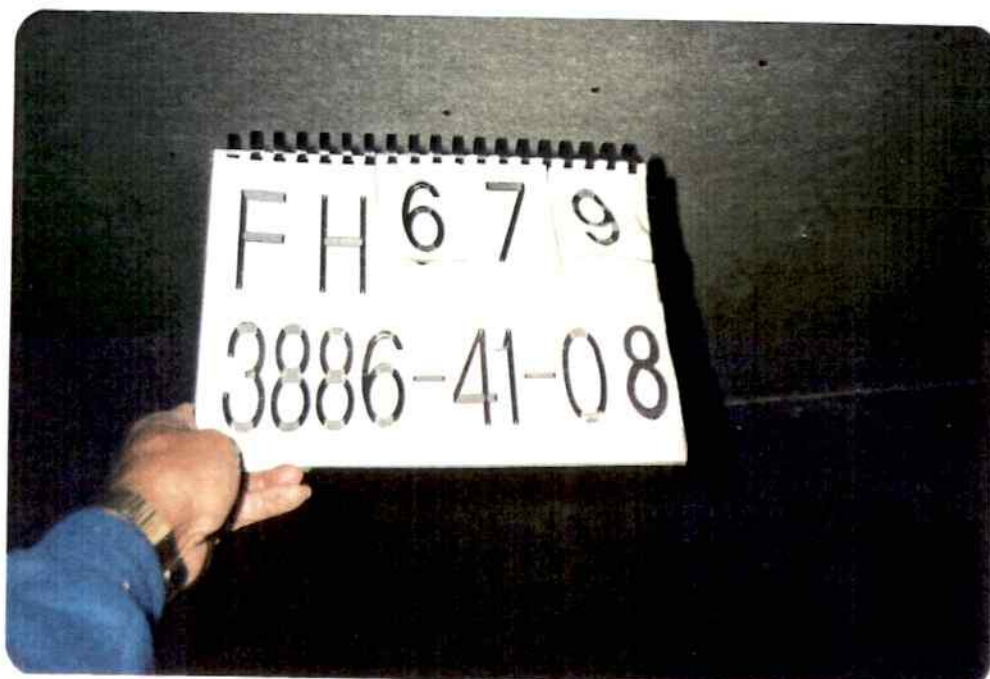
SECTION 2337.4

PHOTOGRAPHS



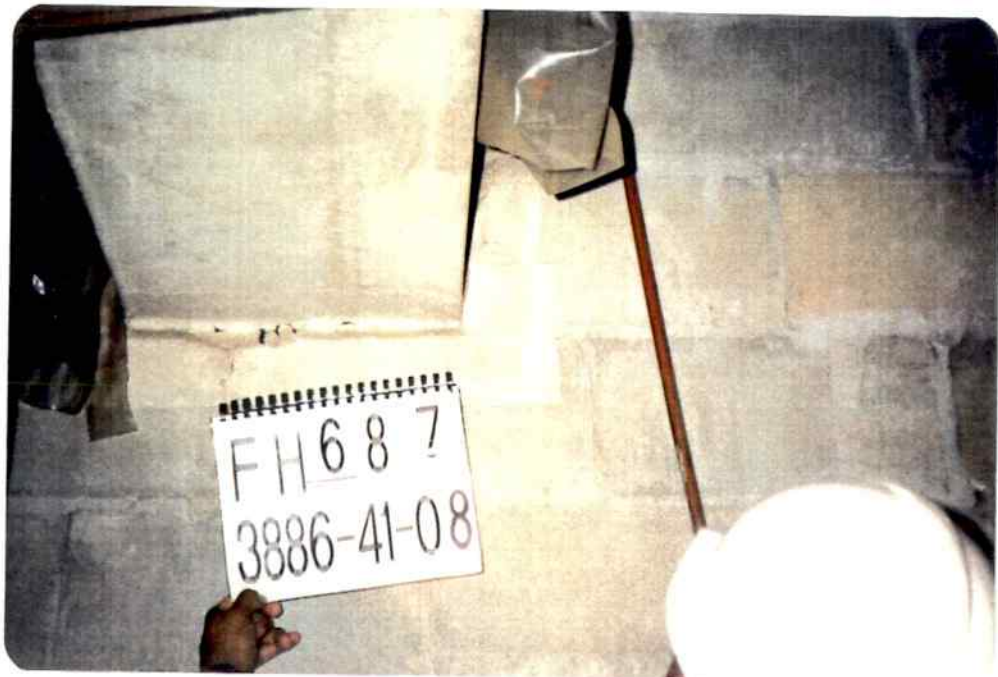
BLDG. 2337

SECOND FLOOR, PROJECTION ROOM : (SAMPLE FH678)
TAN 12" X 12" FLOOR TILE TESTED POSITVE.



BLDG. 2337

SECOND FLOOR, PROJECTION ROOM: (SAMPLE FH679)
TRANSITE PANEL BOARD TESTED POSITIVE.



BLDG. 2337

FIRST FLOOR, JANITOR'S CLOSET: (SAMPLE FH687)
AIR DUCT INSULATION TESTED POSITIVE.



BLDG. 2337

SECOND FLOOR, PROJECTION ROOM: (SAMPLE FH688)
AIR DUCT EXPANSION CLOTH TESTED POSITIVE.



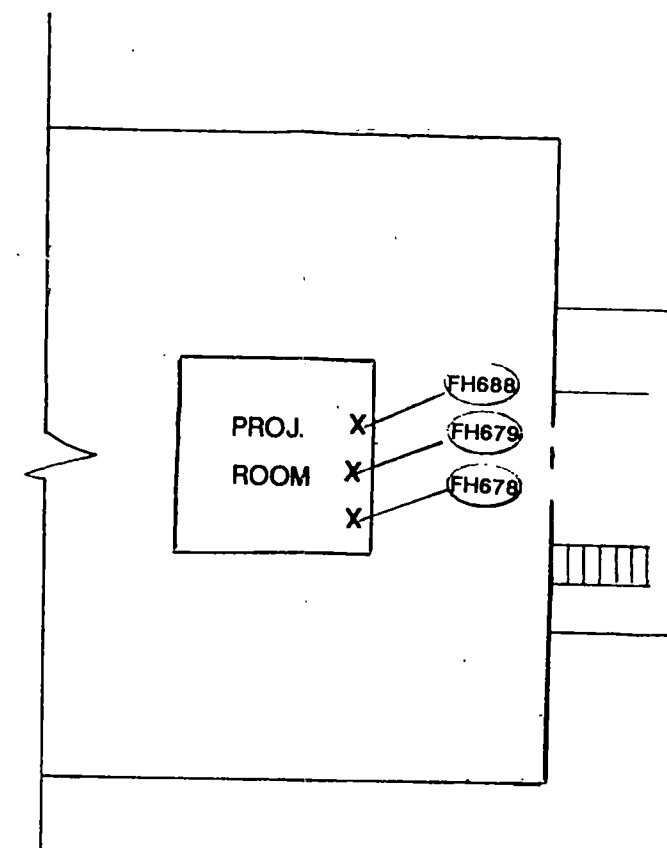
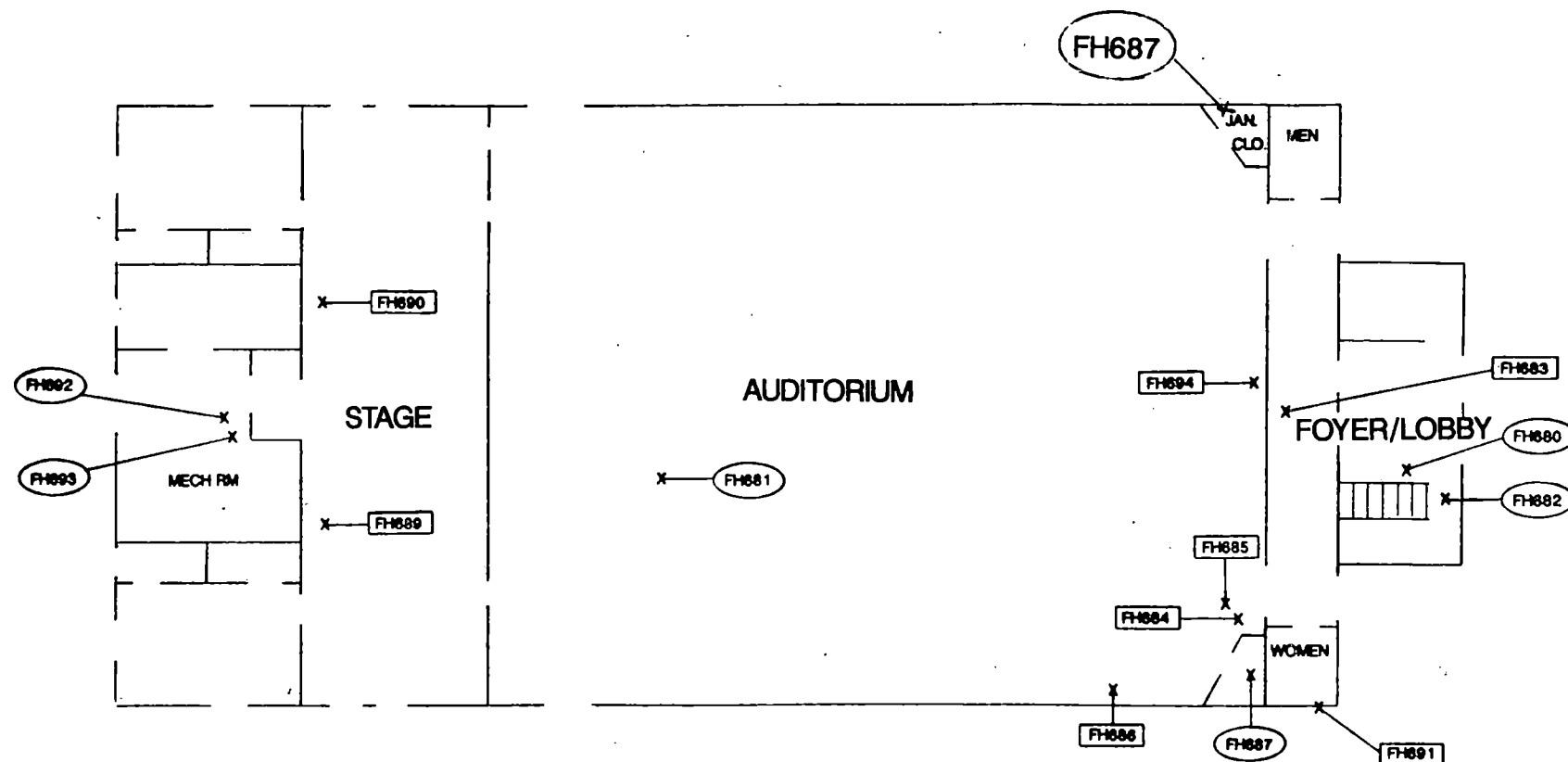
BLDG. 2337

MECHANICAL ROOM : (SAMPLE FH692)
4"-8" PIPE FITTING INSULATION TESTED
POSITIVE.



BLDG. 2337

MECHANICAL ROOM: (SAMPLE FH693)
4"-8" PIPE RUN INSULATION TESTED
POSITIVE.



LEGEND

- FHnnn POSITIVE SAMPLE
- FHnnn NEGATIVE SAMPLE

2533

2533
YOUTH ACTIVITY CENTER

YOUTH ACTIVITY CENTER

2533.1 GENERAL

Building 2533 was surveyed by WESTON technicians on 11 June 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 2533.1 lists the analytical results for the bulk samples.

2533.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 2533 are presented in Table 2533.1. An area-by-area inventory of ACM is provided in Tables 2533.2 and 2533.3. "Other Asbestos-Containing Materials," listed in Table 2533.3, are materials that do not correspond to the standard caption categories listed in Table 2533.2. A prioritized listing of exposure assessments is presented in Table 2533.4. The method by which the exposure assessment priority index values are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.5 of the Guide Document that accompanies this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 2533.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.4 of the Guide Document. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 2533.2 and 2533.5.

2533.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

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

TABLE 2533.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 2533, YOUTH ACTIVITY CTR.

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH972	GAME ROOM	FLOOR TILE	TAN,OTH,1X1 FL TL	-	-	-	NO
FH973	OFFICE 1	FLOOR TILE	TAN,OTH,1X1 FL TL	-	-	-	YES
FH974	LADIES LOUNGE	FLOOR TILE	TAN,OTH,1X1 FL TL	-	-	-	YES
FH975	POOL ROOM	FLOOR TILE	GREEN,OTH,9X9 FL TL	5	-	-	YES
FH976	STORE ROOM 2ND FLOOR	FLOOR TILE	GREEN,OTH,9X9 FL TL	5	-	1	YES
FH977	ACTIVITY ROOM	FLOOR TILE	GREEN,OTH,9X9 FL TL	3	-	1	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 2533.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 2533, YOUTH ACTIVITY CTR.

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"					
ACTIVITY ROOM	-	-	-	-	-	-	-	-	-	0.16	-	-	-
EQUIPMENT ROOM	-	-	-	-	-	-	-	-	-	0.20	-	-	-
GAME ROOM	-	-	-	-	-	-	-	-	-	1.50	-	-	-
LOUNGE	-	-	-	-	-	-	-	-	-	0.30	-	-	-
MENS/LADIES LOUNGE	-	-	-	-	-	-	-	-	-	0.40	-	-	-
OFFICE 2	-	-	-	-	-	-	-	-	-	0.18	-	-	-
OFFICE 3	-	-	-	-	-	-	-	-	-	0.45	-	-	-
OFFICE/STOREROOM	-	-	-	-	-	-	-	-	-	0.40	-	-	-
POOL ROOM	-	-	-	-	-	-	-	-	-	0.60	-	-	-
STORE ROOM 2ND FLOOR	-	-	-	-	-	-	-	-	-	0.18	-	-	-
TOTALS	-	-	-	-	-	-	-	-	-	4.36	-	-	-

* Other Material Present In Various Units Of Measure

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

Table 2533.3

**Other Asbestos-Containing Material - Building 2533, Youth Activity Center
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

2533-5

TABLE 2533.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 2533, YOUTH ACTIVITY CTR.

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 2533.5

COST ESTIMATE* - BUILDING 2533, YOUTH ACTIVITY CTR.

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6	AREA 7	AREA 8	AREA 9	AREA 10	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	0.9	1.1	8.4	1.7	2.2	1.0	2.5	2.2	3.4	1.0	24.4
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-	-	-	-	-
SUBTOTAL		0.9	1.1	8.4	1.7	2.2	1.0	2.5	2.2	3.4	1.0	24.4
Difficulty Allowance		-	-	4.2	0.8	1.1	-	-	1.1	1.7	0.5	9.5
SUBTOTAL		0.9	1.1	12.6	2.5	3.4	1.0	2.5	3.3	5.0	1.5	33.9
Decontamination Units Mobilization		0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	6.0
		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2.0
SUBTOTAL		1.7	1.9	13.4	3.3	4.2	1.8	3.3	4.1	5.8	2.3	41.9
Contingency @ 15.00%		0.3	0.3	2.0	0.5	0.6	0.3	0.5	0.6	0.9	0.3	6.3
SUBTOTAL		1.9	2.2	15.4	3.8	4.8	2.1	3.8	4.7	6.7	2.7	48.1
Design Fee @ 10.00%		0.2	0.2	1.5	0.4	0.5	0.2	0.4	0.5	0.7	0.3	4.8
SUBTOTAL		2.1	2.4	17.0	4.2	5.3	2.3	4.2	5.2	7.4	2.9	53.0
Air Monitoring @ 10.00%***		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5.3
TOTAL		2.7	2.9	17.5	4.7	5.8	2.8	4.7	5.7	7.9	3.5	58.3

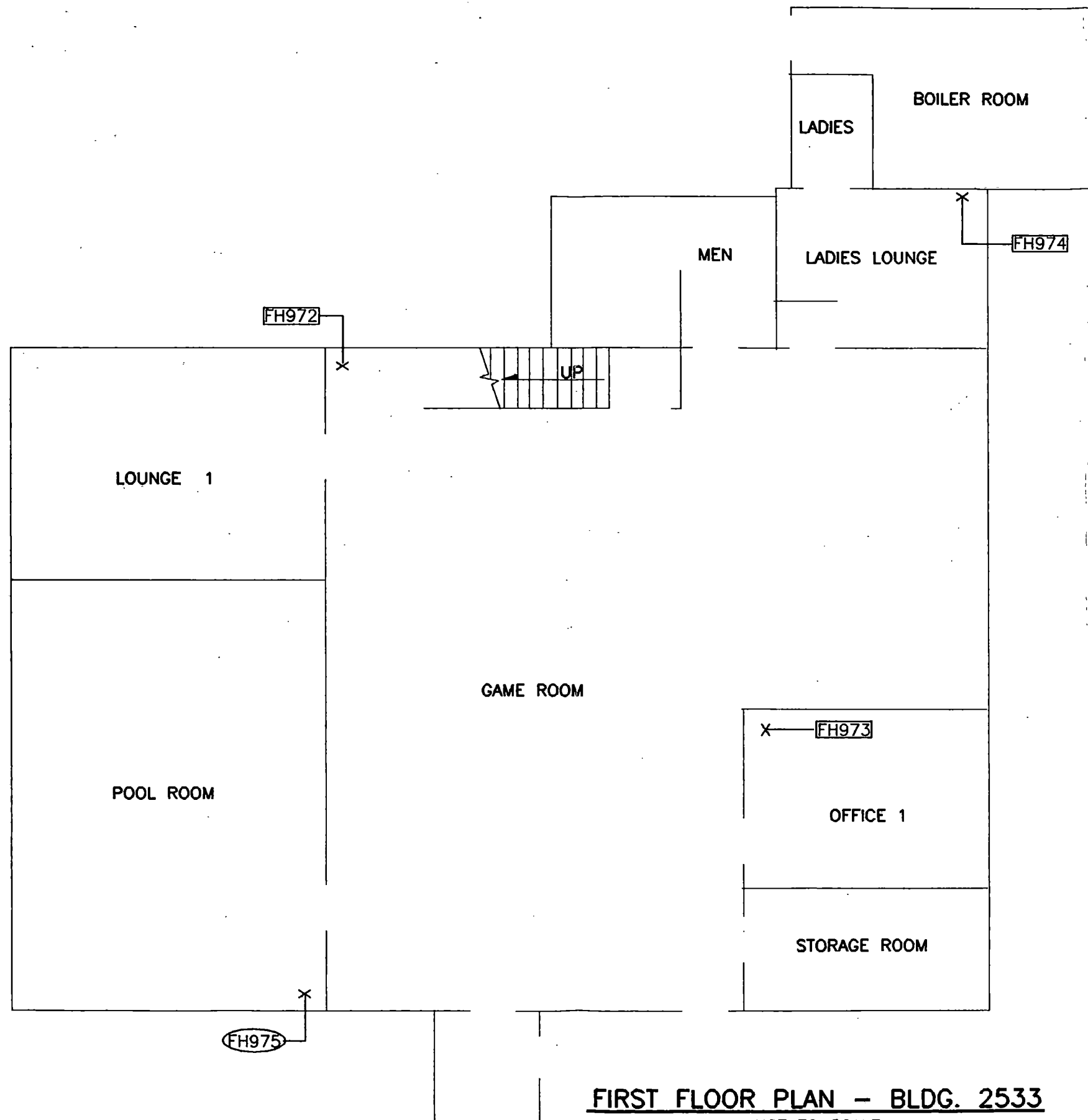
*Amounts Are In Thousands Of Dollars

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

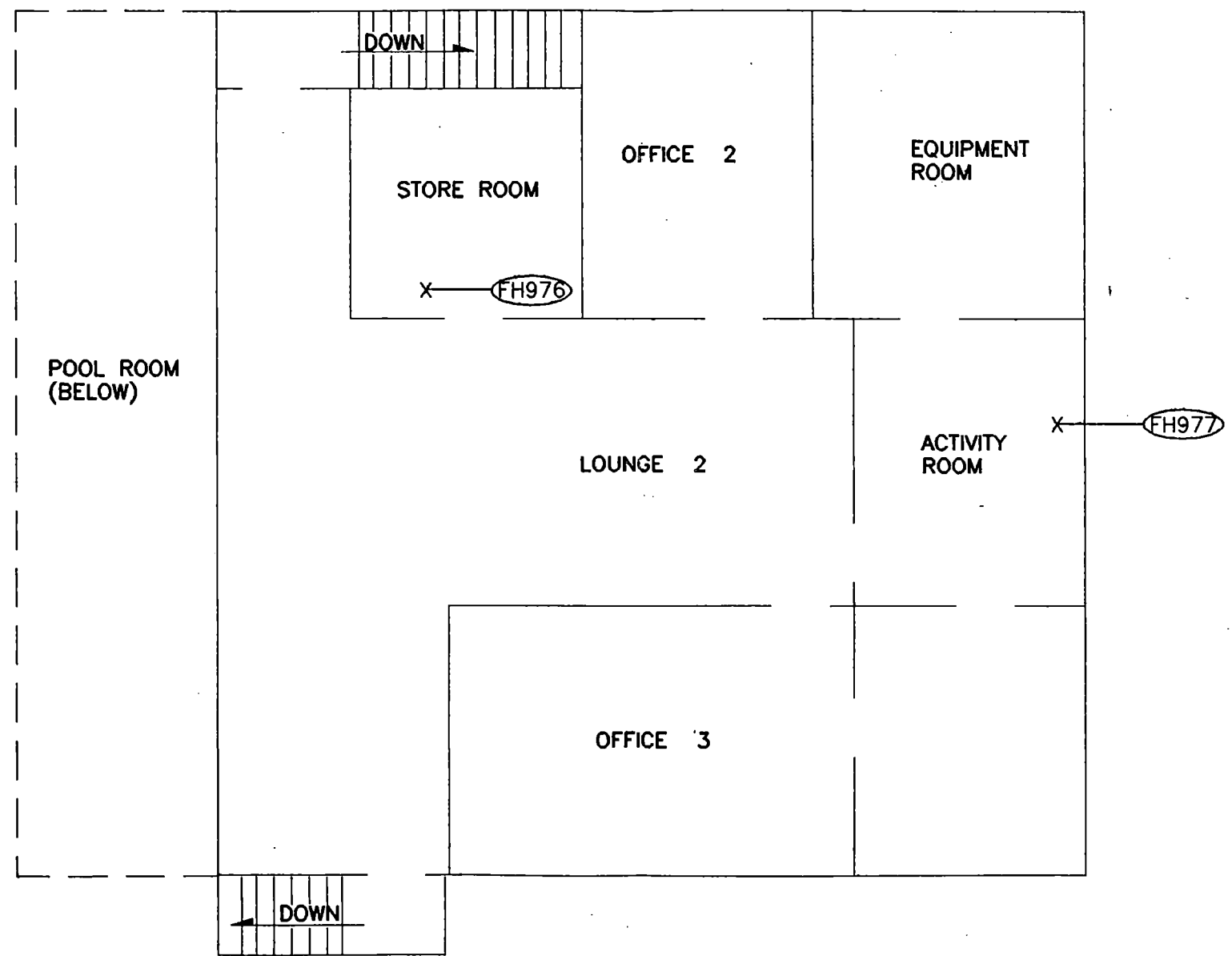
***The Minimum Air Monitoring Fee is \$500.00 Per Building

AREA 1: ACTIVITY ROOM
 AREA 2: GAME ROOM
 AREA 3: MENS/LADIES LOUNGE
 AREA 4: OFFICE 3
 AREA 9: POOL ROOM

AREA 2: EQUIPMENT ROOM
 AREA 2: LOUNGE
 AREA 6: OFFICE 2
 AREA 8: OFFICE/STOREROOM
 AREA 10: STORE ROOM 2ND FLOOR



FIRST FLOOR PLAN - BLDG. 2533
NOT TO SCALE



SECOND FLOOR PLAN - BLDG. 2533

NOT TO SCALE

NORTH



LEGEND

-  POSITIVE SAMPLE
-  NEGATIVE SAMPLE



9352

9352
STOREHOUSE

STOREHOUSE

9352.1 GENERAL

Building 9352 was surveyed by WESTON technicians on 5 June 1991.

The first three portions of this facility report summarize the results of this inspection. A photograph of one sample location is provided in Section 9352.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 2 samples of suspect material collected from the building. Both samples were found to be asbestos-containing materials (ACM). Table 9352.1 lists the analytical results for the bulk samples.

9352.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9352 are presented in Table 9352.1. An area-by-area inventory of ACM is provided in Tables 9352.2 and 9352.3. "Other Asbestos-Containing Materials," listed in Table 9352.3, are materials that do not correspond to the standard caption categories listed in Table 9352.2. A prioritized listing of exposure assessments is presented in Table 9352.4. The method by which the exposure assessment priority index values are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.5 of the Guide Document that accompanies this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9352.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.4 of the Guide Document. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9352.2 and 9352.5.

9352.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- Asbestos-containing exterior siding should be labeled under the O&M Program.

TABLE 9352.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9352, STOREHOUSE

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH868	EXTERIOR WALL	EXTERIOR SIDING	BROWN,OTH,BLD. STRIP	3	-	-	YES
FH869	EXTERIOR WALL	EXTERIOR SIDING	BROWN,OTH,BLD. STRIP	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 9352.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 9352, 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"					
EXTERIOR WALL	-	-	-	-	-	-	-	-	-	-	-	-	*
TOTALS	-	-	-	-	-	-	-	-	-	-	-	-	*

* Other Material Present In Various Units Of Measure

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

Table 9352.3

Other Asbestos-Containing Material - Building 9352, Storehouse
Type Occupancy: Adults (Public)

Area	Material Type	Quantity (Unit)
Exterior Wall	Exterior Siding	0.525 (MSF)

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

9352-5

TABLE 9352.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9352, STOREHOUSE

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH868	EXTERIOR WALL	EXTERIOR SIDING	A	5.000E-6	1	1	1	1	1	1.00	3
FH869	EXTERIOR WALL	EXTERIOR SIDING	A	5.000E-6	1	1	1	1	1	1.00	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 9352.5

COST ESTIMATE* - BUILDING 9352, STOREHOUSE

DESCRIPTION	UNIT COST (\$)	AREA 1	TOTAL
Pipe Fittings (EA)			
<4"	70.30	-	-
4-8"	85.80	-	-
9-14"	146.70	-	-
>14"	218.00	-	-
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	-	-
Boilers/Tanks (SF)	37.90	-	-
Air Handling Equipment (SF)	20.00	-	-
Other		5.8	5.8
SUBTOTAL		5.8	5.8
Difficulty Allowance		11.6	11.6
SUBTOTAL		17.4	17.4
Decontamination Units Mobilization		2.0	2.0
SUBTOTAL		19.4	19.4
Contingency @ 15.00%		2.9	2.9
SUBTOTAL		22.3	22.3
Design Fee @ 10.00%		2.2	2.2
SUBTOTAL		24.5	24.5
Air Monitoring @ 10.00%***		2.4	2.4
TOTAL		26.9	26.9

* 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: EXTERIOR WALL

SECTION 9532.4
PHOTOGRAPHS



BLDG. 9352

EXTERIOR WALL: (SAMPLES FH868 AND FH869)
BROWN BUILDING STRIPS TESTED POSTIVE.

SAMPLES OF OUTSIDE WALL

FH868

NO SUSPECT MATERIAL FOUND INSIDE THE BUILDING

FH869

BLDG. 9352
NOT TO SCALE

NORTH



LEGEND

FHnnp POSITIVE SAMPLE
FHnnn NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

9379

9379
LABORATORY

LABORATORY**9379.1 GENERAL**

Building 9379 was surveyed by WESTON technicians on 5 April 1991.

The first three portions of this facility report summarize the results of this inspection. Photographs of some sample locations are provided in Section 9379.4.

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 9379.1 lists the analytical results for the bulk samples.

9379.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9379 are presented in Table 9379.1. An area-by-area inventory of ACM is provided in Tables 9379.2 and 9379.3. "Other Asbestos-Containing Materials," listed in Table 9379.3, are materials that do not correspond to the standard caption categories listed in Table 9379.2. A prioritized listing of exposure assessments is presented in Table 9379.4. The method by which the exposure assessment priority index values are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.5 of the Guide Document that accompanies this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9379.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.4 of the Guide Document. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9379.2 and 9379.5.

9379.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- All asbestos-containing transite board and floor tile should be labeled under the O&M Program.

TABLE 9379.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9379, LABORATORY

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			
				CH	AM	OT	LAYERED ^a
FH742	MECH. ROOM	TRANSITE PANEL BOARD	GRAY,OTH,TRANS PANL	40	-	-	NO
FH743	ELECTRICAL CLOSET	FLOOR TILE	BROWN,OTH,FL TL	5	-	-	NO
FH744	BLDG. EXTERIOR WALL	EXTERIOR SIDING	BLACK,OTH,PAPER TAR	-	-	-	NO
FH745	LATRINE	FLOOR TILE	BLACK,OTH,FL TL	5	-	-	NO
FH746	ROOF	OTHER MATERIAL	BLACK,OTH,ROOF MAT.	-	-	-	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 9379.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 9379, LABORATORY

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"					
Electrical Closet	-	-	-	-	-	-	-	-	-	0.02	-	-	-
Latrine	-	-	-	-	-	-	-	-	-	0.03	-	-	-
Mech. Room	-	-	-	-	-	-	-	-	-	-	-	-	*
TOTALS	-	-	-	-	-	-	-	-	-	0.05	-	-	*

* Other Material Present In Various Units Of Measure

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

Table 9379.3

**Other Asbestos-Containing Material - Building 9379, Laboratory
Type Occupancy: Adults (Public)**

Area	Material Type	Quantity (Unit)
Mechanical Room	Transite Panel	0.016 (MSF)

EA - Each

LF - Linear Feet

MSF - Thousand Square Feet

9379-5

TABLE 9379.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9379, LABORATORY

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH742	Mech. Room	TRANSITE PANEL BOARD	A	2.175E-4	1	1	2	1	1	1.00	40
FH744	Bldg. Exterior Wall	EXTERIOR SIDING	A	0	1	1	2	1	1	1.00	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 9379.5

COST ESTIMATE* - BUILDING 9379, LABORATORY

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"	30.50	-	-	-	-
9-14"	42.50	-	-	-	-
>14"	60.80	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-
Floor Tile (SF)	5.60	**	0.2	-	0.3
Boilers/Tanks (SF)	37.90	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-
Other		-	-	0.2	0.2
SUBTOTAL		**	0.2	0.2	0.4
Difficulty Allowance		-	-	0.4	0.4
SUBTOTAL		**	0.2	0.5	0.8
Decontamination Units		0.5	0.5	0.5	1.5
Mobilization		0.7	0.7	0.7	2.0
SUBTOTAL		1.3	1.3	1.7	4.3
Contingency @ 15.00%		0.2	0.2	0.3	0.6
SUBTOTAL		1.4	1.5	1.9	4.9
Design Fee @ 10.00%		0.1	0.2	0.2	0.5
SUBTOTAL		1.6	1.7	2.1	5.4
Air Monitoring @ 10.00%***		0.2	0.2	0.2	0.5
TOTAL		1.8	1.9	2.3	6.0

*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: Electrical Closet
AREA 3: Mech. Room

AREA 2: Latrine

SECTION 9379.4
PHOTOGRAPHS



BLDG. 9379

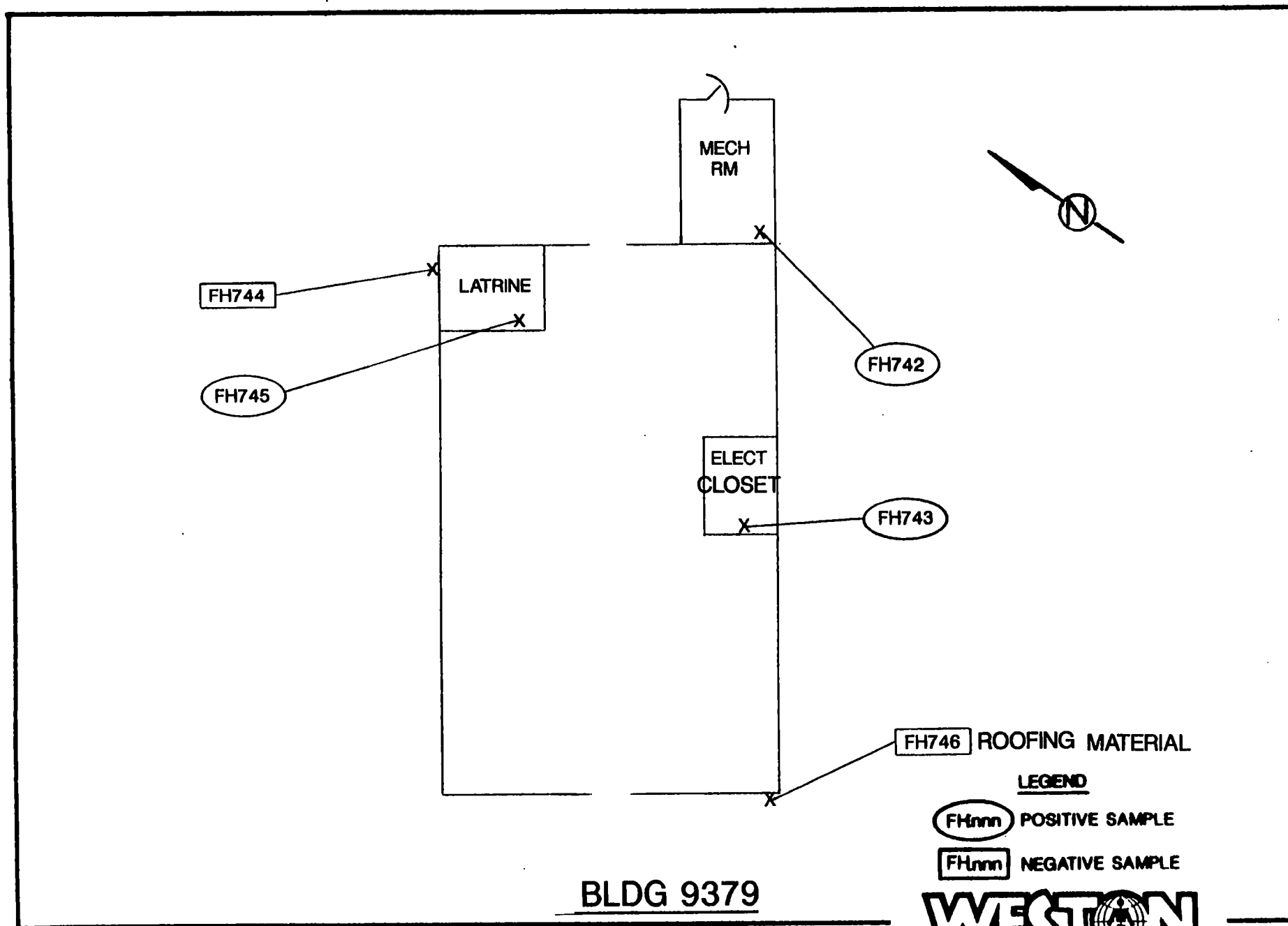
MECHANICAL ROOM: (SAMPLE FH742)
TRANSITE PANEL BOARD TESTED POSITIVE.



BLDG. 9379

ELECTRICAL CLOSET: (SAMPLE FH743)
BROWN 9" X 9" FLOOR TILE TESTED POSITIVE.

9379-9



FH746 ROOFING MATERIAL

LEGEND

(FHnnn) POSITIVE SAMPLE

[FHnnn] NEGATIVE SAMPLE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

9392

9392
PAINT SHOP

PAINT SHOP

9392.1 GENERAL

Building 9392 was surveyed by WESTON technicians on 5 June 1991.

The first three portions of this facility report summarize the results of this inspection. Photographs of some sample locations are provided in Section 9392.4.

Polarized Light Microscopy (PLM) with dispersion staining was used to analyze 6 samples of suspect material collected from the building. All 6 samples were found to be asbestos-containing materials (ACM). Table 9392.1 lists the analytical results for the bulk samples.

9392.2 ACM AND EXPOSURE ASSESSMENT

The location, description, and analytical results for each bulk sample from Building 9392 are presented in Table 9392.1. An area-by-area inventory of ACM is provided in Tables 9392.2 and 9392.3. "Other Asbestos-Containing Materials," listed in Table 9392.3, are materials that do not correspond to the standard caption categories listed in Table 9392.2. A prioritized listing of exposure assessments is presented in Table 9392.4. The method by which the exposure assessment priority index values are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.5 of the Guide Document that accompanies this report. An itemized area-by-area cost estimate for removal and replacement is provided in Table 9392.5. The method by which removal/replacement costs are calculated is described in the ISSUES COMMON TO ALL BUILDINGS, Section 3.4 of the Guide Document. Building floor plans (see attachment) indicate sample locations and building area names as they are listed in Tables 9392.2 and 9392.5.

9392.3 RECOMMENDATIONS/CONCLUSIONS

WESTON recommends:

- **Building 9392's paint shop and exterior walls qualify for the Army Asbestos Deficiency Abatement Project.**
- **Asbestos-containing floor tile and transite panel should be labeled under the O&M Program.**

TABLE 9392.1

BULK SAMPLE ANALYSIS RESULTS - BUILDING 9392, PAINT SHOP

SAMPLE NO.	LOCATION	ITEM	DESCRIPTION	PERCENT ASBESTOS			LAYERED ^a
				CH	AM	OT	
FH862	PAINT SHOP 1	<4" PIPE RUN	WHITE,UNK,PIPE INSUL	25	-	-	NO
FH863	PAINT SHOP 2	<4" PIPE RUN	WHITE,UNK,PIPE INSUL	20	-	-	NO
FH864	MENS ROOM	FLOOR TILE	BLACK,OTH,FL TL	5	-	-	YES
FH865	BOILER ROOM	TRANSITE CORRUGATED PANELS	GRAY,OTH,TRAN PANEL	40	-	-	NO
FH866	BOILER ROOM	TRANSITE CORRUGATED PANELS	GRAY,OTH,TRAN PANEL	40	-	-	NO
FH867	EXTERIOR WALL	OTHER MATERIAL	BROWN,OTH,BLD PAPER	10	-	-	YES

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

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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 9392.2

ASBESTOS-CONTAINING MATERIALS - BUILDING 9392, PAINT SHOP

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"					
BOILER ROOM	-	-	-	-	-	-	-	-	-	-	-	-	*
EXTERIOR WALL	-	-	-	-	-	-	-	-	-	-	-	-	*
MENS ROOM	-	-	-	-	-	-	-	-	-	0.10	-	-	-
PAINT SHOP 1	-	-	-	-	15	-	-	-	-	-	-	-	-
PAINT SHOP 2	-	-	-	-	15	-	-	-	-	-	-	-	-
TOTALS	-	-	-	-	30	-	-	-	-	0.10	-	-	*

* Other Material Present In Various Units Of Measure

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

Table 9392.3

**Other Asbestos-Containing Material - Building 9392, Paint Shop
Type Occupancy: Adults (Public)**

Area	Material Type	Quantity (Unit)
Boiler Room	Transite Panel	0.600 (MSF)
Exterior Wall	Exterior Siding	1.0 (MSF)

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

9392-5

TABLE 9392.4

EXPOSURE ASSESSMENTS (PRIORITY ORDER) - BUILDING 9392, PAINT SHOP

SAMPLE NO.	AREA	MATERIAL TYPE	PRIOR. INDEX CODE	PRIORITY INDEX NUMBER	EXPOSURE FACTORS					AVG. EXP. HOURS	% ASB.
					1	2	3	4	5		
FH862	PAINT SHOP 1	<4" PIPE RUN	C	1.900E03	2	3	1	2	1	40.00	25
FH863	PAINT SHOP 2	<4" PIPE RUN	C	1.900E03	2	3	1	2	1	40.00	20
FH865	BOILER ROOM	TRANSITE CORRUGATED PANELS	A	2.500E-2	2	1	1	1	1	1.00	40
FH866	BOILER ROOM	TRANSITE CORRUGATED PANELS	A	2.500E-2	2	1	1	1	1	1.00	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 9392.5

COST ESTIMATE* - BUILDING 9392, PAINT SHOP

DESCRIPTION	UNIT COST (\$)	AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	TOTAL
Pipe Fittings (EA)							
<4"	70.30	-	-	-	-	-	-
4-8"	85.80	-	-	-	-	-	-
9-14"	147.00	-	-	-	-	-	-
>14"	216.00	-	-	-	-	-	-
Pipe Runs (LF)							
<4"	26.50	-	-	-	0.4	0.4	0.8
4-8"	30.50	-	-	-	-	-	-
9-14"	42.80	-	-	-	-	-	-
>14"	60.80	-	-	-	-	-	-
Sprayed/Troweled Ceilings (SF)	9.60	-	-	-	-	-	-
Floor Tile (SF)	5.60	-	-	0.6	-	-	0.6
Boilers/Tanks (SF)	37.90	-	-	-	-	-	-
Air Handling Equipment (SF)	20.00	-	-	-	-	-	-
Other		6.6	0.6	-	-	-	7.2
SUBTOTAL		6.6	0.6	0.6	0.4	0.4	8.5
Difficulty Allowance		-	0.6	-	-	-	0.6
SUBTOTAL		6.6	1.1	0.6	0.4	0.4	9.1
Decontamination Units Mobilization		0.6	0.6	0.6	0.6	0.6	3.0
		0.4	0.4	0.4	0.4	0.4	2.0
SUBTOTAL		7.6	2.1	1.6	1.4	1.4	14.1
Contingency @ 15.00%		1.1	0.3	0.2	0.2	0.2	2.1
SUBTOTAL		8.8	2.4	1.8	1.6	1.6	16.2
Design Fee @ 10.00%		0.9	0.2	0.2	0.2	0.2	1.6
SUBTOTAL		9.6	2.7	2.0	1.8	1.8	17.8
Air Monitoring @ 10.00%***		0.4	0.4	0.4	0.4	0.4	1.8
TOTAL		10.0	3.0	2.3	2.1	2.1	19.6

* 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: BOILER ROOM
 AREA 3: MENS ROOM
 AREA 5: PAINT SHOP 2

AREA 2: EXTERIOR WALL
 AREA 4: PAINT SHOP 1

SECTION 9392.4
PHOTOGRAPHS



EXTERIOR WALL: (SAMPLE FH867)
BROWN EXTERIOR BUILDING PAPER
TESTED POSITIVE.

BLDG. 9392



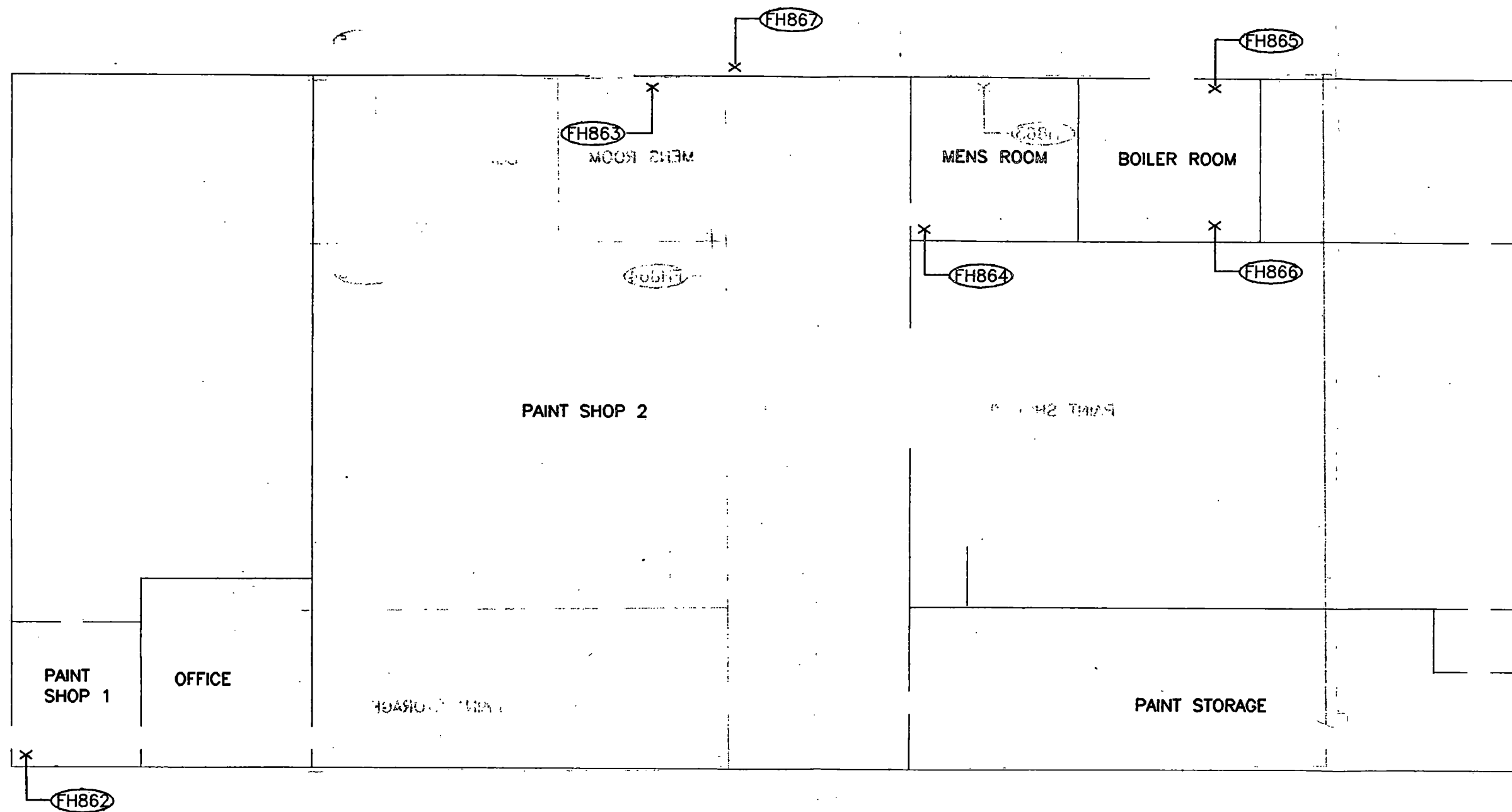
BLDG. 9392

BOILER ROOM: (SAMPLE FH865 AND FH866) TRANSITE
PANELS TESTED POSITIVE.



BLDG. 9392

PAINT SHOP: (SAMPLES FH862 AND FH863) < 4"
PIPE RUN INSULATION TESTED POSTIVE.



BLDG. 9392
NOT TO SCALE

LEGEND
 (FHnnn) POSITIVE SAMPLE
 [FHnnn] NEGATIVE SAMPLE

WESTON