

## Asbestos Design Data Collection (DDC)

### Alexander McClure Elementary School (7380)

#### Project Overview

Address:	600 W. Hunting Park Avenue, Philadelphia, PA 19140	Total Material for Abatement (SF):	
Inspector Name/Company:	Synertech Incorporated	Total Material for Abatement (LF):	See Summary List Below
Date Inspected:	12/20/2019 – 1/06/2020	Requested by:	School District of Philadelphia Office of Environmental Services
Date Issued (within 24 hours):	1/06/2020		

**Total Number of Work Areas:**

6 Incidental encapsulation abatement locations - 210, 108, 109, 110, Main Office (106B) and Office beside Copy Room (106C)

6 hallway Major Project abatement locations on the basement, first and second floors (H29, H10, H18, H16, H01/H03 and H04/S06)

4 stairwell-landing Major Project abatement locations on the second and third floors (S27, S37, S21 and S22)

2 entrance vestibule Major Project abatement locations on the first floor (S11 and S17)

1 entrance vestibule Minor Project abatement location on the first floor (S12)

1 Classroom Major Project abatement location in the basement (011, including pipe chase)

1 Major Project abatement location in the basement Gymnasium (001, including pipe chase)

# Asbestos Design Data Collection (DDC)

## Alexander McClure Elementary School (7380)

### Scope of Work - 6 Incidental Encapsulation Abatement Locations

6 Incidental encapsulation abatement locations	Classrooms 210, 108, 109, 110, Main Office (106B) and Office beside Copy Room (106C)		Use of Rooms:	Classrooms and Offices	Student/Teacher Occupied?	Yes
Space IDs:	See above	Estimated # of Man-hours to Complete this Scope	To Be Determined	Water Location (hose bib preferred)	Portable Hudson Sprayer if required	
Onsite Room Name:	See above		Electric Panel Tie-in Location (Majors)		Temporary electric panels have been installed in the basement, first and second floors	
Project Type: Incidental, Small, Minor, Major, Non-Friable	Incidentals		Shower/Clean Room (Minors) or 3 Stage Decon Location (Majors)		N/A	
High Traffic Area?	Yes		Potential For Damage - Air?		No	
High Activity Area?	Yes		Potential For Damage - Vibration?		Yes	
High Access Area?	Yes		Potential For Damage - Water?		Yes	

Material	Total Present	Damage Amount	Abatement Amount	Imminent Hazard?	Abatement Type	Specific Location	Alternative Method	Plywood Isolation Barriers Required?	Moveable Objects?	Is There Asbestos Debris on Movable Objects?	Glove Bag Tent or Full Containment	# of AFD's
	LF/SF	LF/SF	LF/SF	yes/no	Remove, Encapsulate, Enclose	i.e. riser #, wall#, window#	if yes, define	List locations	Provide Summary List			
Asbestos Containing Pipe/Pipe Fitting Insulation	Varies	1 foot or less in each location	1 foot or less in each location	No	Encapsulate	Window Walls	No Alternative Method Required	None Required	All furniture and educational materials to be relocated to 10 feet away (min.) from repair locations	None Identified	Tent Containment	HEPA vacuum to provide air filtration during repair

All contents within the vicinity of the encapsulation locations shall be pre-cleaned and moved to at least 10' away  
 The Asbestos Containing Pipe/Pipe Fitting Insulation to be repaired shall be contained with one layer of polyethylene sheeting  
 All surfaces within the tent containment shall be pre-cleaned via wet-wiping and HEPA vacuum methods  
 The damaged locations shall be encapsulated with wettable lag cloth that forms a hard cast once dry  
 Following an acceptable visual inspection by the onsite Asbestos Project Inspector, the tent containment shall be removed  
 2 TEMs shall be collected inside the Classroom/Office prior to re-occupancy – acceptable air sample results for all air samples is <0.01 s/cc

## Asbestos Design Data Collection (DDC)

### Alexander McClure Elementary School (7380)

Scope of Work - 6 Hallway Major Project Abatement Locations - Basement, First and Second Floors												
6 hallway Major Project abatement locations		Second Floor Hallways H29, H10, First Floor Hallways H18, H16, Basement Hallways H01/H03 and H04/S06				Use of Rooms:	Circulation Hallways	Student/Teacher Occupied?	Yes			
Space IDs:		See above	Estimated # of Man-hours to Complete this Scope	To Be Determined		Water Location (hose bib preferred)		Restrooms on Each Floor				
Onsite Room Name:		See above				Electric Panel Tie-in Location (Majors)		Temporary electric panels have been installed in the basement, first and second floors				
Project Type: Incidental, Small, Minor, Major, Non-Friable		Major				Shower/Clean Room (Minors) or 3 Stage Decon Location (Majors)		Attached to the entrance of each major project tent containment				
High Traffic Area?		Yes				Potential For Damage - Air?		No				
High Activity Area?		Yes				Potential For Damage - Vibration?		Yes				
High Access Area?		Yes				Potential For Damage - Water?		Yes				
Material	Total Present	Damage Amount	Abatement Amount	Imminent Hazard?	Abatement Type	Specific Location	Alternative Method	Plywood Isolation Barriers Required?	Moveable Objects?	Is There Asbestos Debris on Movable Objects?	Glove Bag Tent or Full Containment	# of AFD's
	LF/SF	LF/SF	LF/SF	yes/no	Remove, Encapsulate, Enclose	i.e. riser #, wall#, window#	if yes, define	List locations	Provide Summary List			
Asbestos Containing Pipe/Pipe Fitting Insulation	Varies	Varies	Removal of All Material	No	Remove	Throughout	No Alternative Method Required	None Required	Radiator Enclosures on the first and second floors	None Identified	Full Containment	Varies - -0.02" w.c. required
<p>3 stage decontamination chambers shall be installed prior to any asbestos pipe/pipe fitting insulation (ACPI/ACPF) removal (remote decon if &lt;40 linear feet) Install air filtration devices to establish a negative pressure differential of minimum -0.02" w.c. – a magnehelic gauge (manometer) shall be present at each containment to continuously measure negative pressure. All contents within the vicinity of the removal locations shall be pre-cleaned and relocated to a temporary storage location.</p> <p>All surfaces throughout the hallways shall be pre-cleaned via wet-wiping and HEPA vacuum methods (including above ductwork in the Basement Hallways H01/H03 and H04/S06. The Asbestos Containing Pipe/Pipe Fitting Insulation to be removed shall be contained with two layers of polyethylene floor and wall sheeting After all metal jacketing is removed, glove bags shall be installed around all ACPI/ACPF to further diminish the release of asbestos fibers during removal Upon completion of removal, an acceptable final visual inspection and encapsulation, 5 TEMs shall be collected inside each containment Acceptable air sample results for individual air samples is &lt;0.01 s/cc – Abatement work area clearances are required to be below the geometric mean of 0.00554 s/cc</p>												

## Asbestos Design Data Collection (DDC)

### Alexander McClure Elementary School (7380)

#### Scope of Work - 4 Stairwell-Landing Major Project Abatement Locations - Second and Third Floors

4 stairwell-landing Major Project abatement locations	Marshall Street Stairwell Landings S27, S37, N. 6 <sup>th</sup> Street Stairwell Landing S21, Rear Parking Lot Stairwell Landing S22		Use of Rooms:	Circulation Stairwells	Student/Teacher Occupied?	Yes
Space IDs:	See above	Estimated # of Man-hours to Complete this Scope	To Be Determined	Water Location (hose bib preferred)	Restrooms on Each Floor	
Onsite Room Name:	See above			Electric Panel Tie-in Location (Majors)	Temporary electric panels have been installed in the basement, first and second floors	
Project Type: Incidental, Small, Minor, Major, Non-Friable	Major			Shower/Clean Room (Minors) or 3 Stage Decon Location (Majors)	Remote 3 Stage Decontamination Chamber for all Stairwells	
High Traffic Area?	Yes			Potential For Damage - Air?	No	
High Activity Area?	Yes			Potential For Damage - Vibration?	Yes	
High Access Area?	Yes			Potential For Damage - Water?	Yes	

Material	Total Present LF/SF	Damage Amount LF/SF	Abatement Amount LF/SF	Imminent Hazard? yes/no	Abatement Type Remove, Encapsulate, Enclose	Specific Location i.e. riser #, wall#, window#	Alternative Method if yes, define	Plywood Isolation Barriers Required? List locations	Moveable Objects? Provide Summary List	Is There Asbestos Debris on Movable Objects?	Glove Bag Tent or Full Containment	# of AFD's
Asbestos Containing Pipe/Pipe Fitting Insulation	36 LF 8 Each	No Damage Identified	Removal of All Material	No	Remove	Along Window Walls	No Alternative Method Required	None Required	None	None Identified	Glove Bag Tent Containment	-0.02" w.c. required

Remote 3 stage decontamination chambers shall be installed prior to any asbestos pipe/pipe fitting insulation (ACPI/ACPF) removal  
 Install air filtration devices to establish a negative pressure differential of minimum -0.02" w.c. – a magnehelic gauge (manometer) shall be present at each containment to continuously measure negative pressure. Pre-clean the Stairwell Landings via wet-wiping and HEPA vacuum methods.  
 The Asbestos Containing Pipe/Pipe Fitting Insulation to be removed shall be contained with two layers of polyethylene floor and wall sheeting  
 After all metal jacketing is removed, glove bags shall be installed around all ACPI/ACPF – glove bag removal shall be performed in accordance with the ACR  
 Upon completion of removal, an acceptable final visual inspection and encapsulation, 5 TEMs shall be collected inside each containment  
 Acceptable air sample results for individual air samples is <0.01 s/cc – Abatement work area clearances are required to be below the geometric mean of 0.00554 s/cc

## Asbestos Design Data Collection (DDC)

### Alexander McClure Elementary School (7380)

Scope of Work - 2 Entrance Vestibule Major Project Abatement Locations on the First Floor												
6 stairwell-landing Major Project abatement locations		N. 6 <sup>th</sup> Street Entrance Vestibule S11 and N. Marshall Street Entrance Vestibule S17				Use of Rooms:		Circulation Vestibules		Student/Teacher Occupied?		Yes
Space IDs:		See above		Estimated # of Man-hours to Complete this Scope		To Be Determined		Water Location (hose bib preferred)		Basement or First Floor Restrooms		
Onsite Room Name:		See above				Electric Panel Tie-in Location (Majors)			Temporary electric panels have been installed in the basement, first and second floors			
Project Type: Incidental, Small, Minor, Major, Non-Friable		Major				Shower/Clean Room (Minors) or 3 Stage Decon Location (Majors)			Remote 3 Stage Decontamination Chamber for all Entrance Vestibules			
High Traffic Area?		Yes				Potential For Damage - Air?			Yes			
High Activity Area?		Yes				Potential For Damage - Vibration?			Yes			
High Access Area?		Yes				Potential For Damage - Water?			Yes			
Material	Total Present	Damage Amount	Abatement Amount	Imminent Hazard?	Abatement Type	Specific Location	Alternative Method	Plywood Isolation Barriers Required?	Moveable Objects?	Is There Asbestos Debris on Movable Objects?	Glove Bag Tent or Full Containment	# of AFD's
	LF/SF	LF/SF	LF/SF	yes/no	Remove, Encapsulate, Enclose	i.e. riser #, wall#, window#	if yes, define	List locations	Provide Summary List			
Asbestos Containing Pipe/Pipe Fitting Insulation	36 LF 14 Each	No Damage Identified	Removal of All Material	No	Remove	Throughout	No Alternative Method Required	None Required	None	None Identified	Glove Bag Tent Containment	-0.02" w.c. required
<p>Remote 3 stage decontamination chambers shall be installed prior to any asbestos pipe/pipe fitting insulation (ACPI/ACPF) removal</p> <p>Install air filtration devices to establish a negative pressure differential of minimum -0.02" w.c. – a magnehelic gauge (manometer) shall be present at each containment to continuously measure negative pressure. Pre-clean the Entrance Vestibules via wet-wiping and HEPA vacuum methods.</p> <p>The Asbestos Containing Pipe/Pipe Fitting Insulation to be removed shall be contained with two layers of polyethylene floor and wall sheeting</p> <p>After all metal jacketing is removed, glove bags shall be installed around all ACPI/ACPF – glove bag removal shall be performed in accordance with the ACR</p> <p>Upon completion of removal, an acceptable final visual inspection and encapsulation, 5 TEMs shall be collected inside each containment</p> <p>Acceptable air sample results for individual air samples is &lt;0.01 s/cc – Abatement work area clearances are required to be below the geometric mean of 0.00554 s/cc</p>												

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### Alexander McClure Elementary School (7380)

#### Scope of Work - 1 Entrance Vestibule Minor Project Abatement Location on the First Floor

1 Entrance Vestibule Minor Project Abatement Location on the First Floor	Rear Parking Lot Entrance Vestibule S12	Use of Room:	Circulation Vestibule	Student/Teacher Occupied?	Yes
Space ID:	See above	Estimated # of Man-hours to Complete this Scope	To Be Determined	Water Location (hose bib preferred)	Basement or First Floor Restrooms
Onsite Room Name:	See above			Electric Panel Tie-in Location (Majors)	Temporary electric panels have been installed in the basement, first and second floors
Project Type: Incidental, Small, Minor, Major, Non-Friable	Minor			Shower/Clean Room (Minors) or 3 Stage Decon Location (Majors)	Remote 3 Stage Decontamination Chamber for all Entrance Vestibules
High Traffic Area?	Yes			Potential For Damage - Air?	Yes
High Activity Area?	Yes			Potential For Damage - Vibration?	Yes
High Access Area?	Yes			Potential For Damage - Water?	Yes

Material	Total Present LF/SF	Damage Amount LF/SF	Abatement Amount LF/SF	Imminent Hazard? yes/no	Abatement Type Remove, Encapsulate, Enclose	Specific Location i.e. riser #, wall#, window#	Alternative Method if yes, define	Plywood Isolation Barriers Required? List locations	Moveable Objects? Provide Summary List	Is There Asbestos Debris on Movable Objects?	Glove Bag Tent or Full Containment	# of AFD's
Asbestos Containing Pipe/Pipe Fitting Insulation	24 LF 10 Each	No Damage Identified	Removal of All Material	No	Remove	Throughout	No Alternative Method Required	None Required	None	None Identified	Glove Bag Tent Containment	-0.02" w.c. required

Remote 3 stage decontamination chambers shall be installed prior to any asbestos pipe/pipe fitting insulation (ACPI/ACPF) removal  
 Install air filtration devices to establish a negative pressure differential of minimum -0.02" w.c. – a magnehelic gauge (manometer) shall be present at each containment to continuously measure negative pressure. Pre-clean the Entrance Vestibule via wet-wiping and HEPA vacuum methods.  
 The Asbestos Containing Pipe/Pipe Fitting Insulation to be removed shall be contained with two layers of polyethylene floor and wall sheeting  
 After all metal jacketing is removed, glove bags shall be installed around all ACPI/ACPF – glove bag removal shall be performed in accordance with the ACR  
 Upon completion of removal, an acceptable final visual inspection and encapsulation, 5 TEMs shall be collected inside each containment  
 Acceptable air sample results for individual air samples is <0.01 s/cc – Abatement work area clearances are required to be below the geometric mean of 0.00554 s/cc

## Asbestos Design Data Collection (DDC)

### Alexander McClure Elementary School (7380)

Scope of Work - 1 Classroom Major Project Abatement Location in the Basement Pre-K Classroom 011 & Pipe Chase												
1 Classroom Major Project Abatement Location in the Basement		Pre-K Classroom 011 and attached Pipe Chase beside Stairwell				Use of Room:		Pre-K Classroom		Student/Teacher Occupied?		Yes
Space ID:		See above		Estimated # of Man-hours to Complete this Scope		To Be Determined		Water Location (hose bib preferred)		Basement Restroom		
Onsite Room Name:		See above				Electric Panel Tie-in Location (Majors)			Temporary electric panels have been installed in the basement, first and second floors			
Project Type: Incidental, Small, Minor, Major, Non-Friable		Major				Shower/Clean Room (Minors) or 3 Stage Decon Location (Majors)			Attached to the entrance of this major project containment			
High Traffic Area?		Yes				Potential For Damage - Air?			No			
High Activity Area?		Yes				Potential For Damage - Vibration?			Yes			
High Access Area?		Yes				Potential For Damage - Water?			Yes			
Material	Total Present	Damage Amount	Abatement Amount	Imminent Hazard?	Abatement Type	Specific Location	Alternative Method	Plywood Isolation Barriers Required?	Moveable Objects?	Is There Asbestos Debris on Movable Objects?	Glove Bag Tent or Full Containment	# of AFD's
	LF/SF	LF/SF	LF/SF	yes/no	Remove, Encapsulate, Enclose	i.e. riser #, wall#, window#	if yes, define	List locations	Provide Summary List			
Asbestos Containing Pipe/Pipe Fitting Insulation	225 LF, 41 Each + 12 LF in the Pipe Chase	No Damage Identified	Removal of All Material	No	Remove	Throughout	No Alternative Method Required	None Required	Radiator Enclosures on the first and second floors	None Identified	Full Containment	-0.02" w.c. required
<p>Pre-clean all movable objects via wet-wiping and HEPA vacuum methods and relocate to a temporary storage location. Loose paper items and wall hangings present in the Classroom will be discarded as part of pre-cleaning activities. Pre-clean all surfaces via wet-wiping and HEPA vacuum methods (including above ductwork)</p> <p>Install a 3 stage decontamination chamber at the entrance to Pre-K Classroom 011</p> <p>Install air filtration devices to establish a negative pressure differential of minimum -0.02" w.c. – a magnehelic gauge (manometer) shall be present to continuously measure negative pressure.</p> <p>The Asbestos Containing Pipe/Pipe Fitting Insulation to be removed shall be contained with two layers of polyethylene floor and wall sheeting</p> <p>After all metal jacketing is removed, glove bags shall be installed around all ACPI/ACPF to further diminish the release of asbestos fibers during removal</p> <p>Upon completion of removal, an acceptable final visual inspection and encapsulation, 5 TEMs shall be collected inside each containment</p> <p>Acceptable air sample results for individual air samples is &lt;0.01 s/cc – Abatement work area clearances are required to be below the geometric mean of 0.00554 s/cc</p>												

## Asbestos Design Data Collection (DDC)

### Alexander McClure Elementary School (7380)

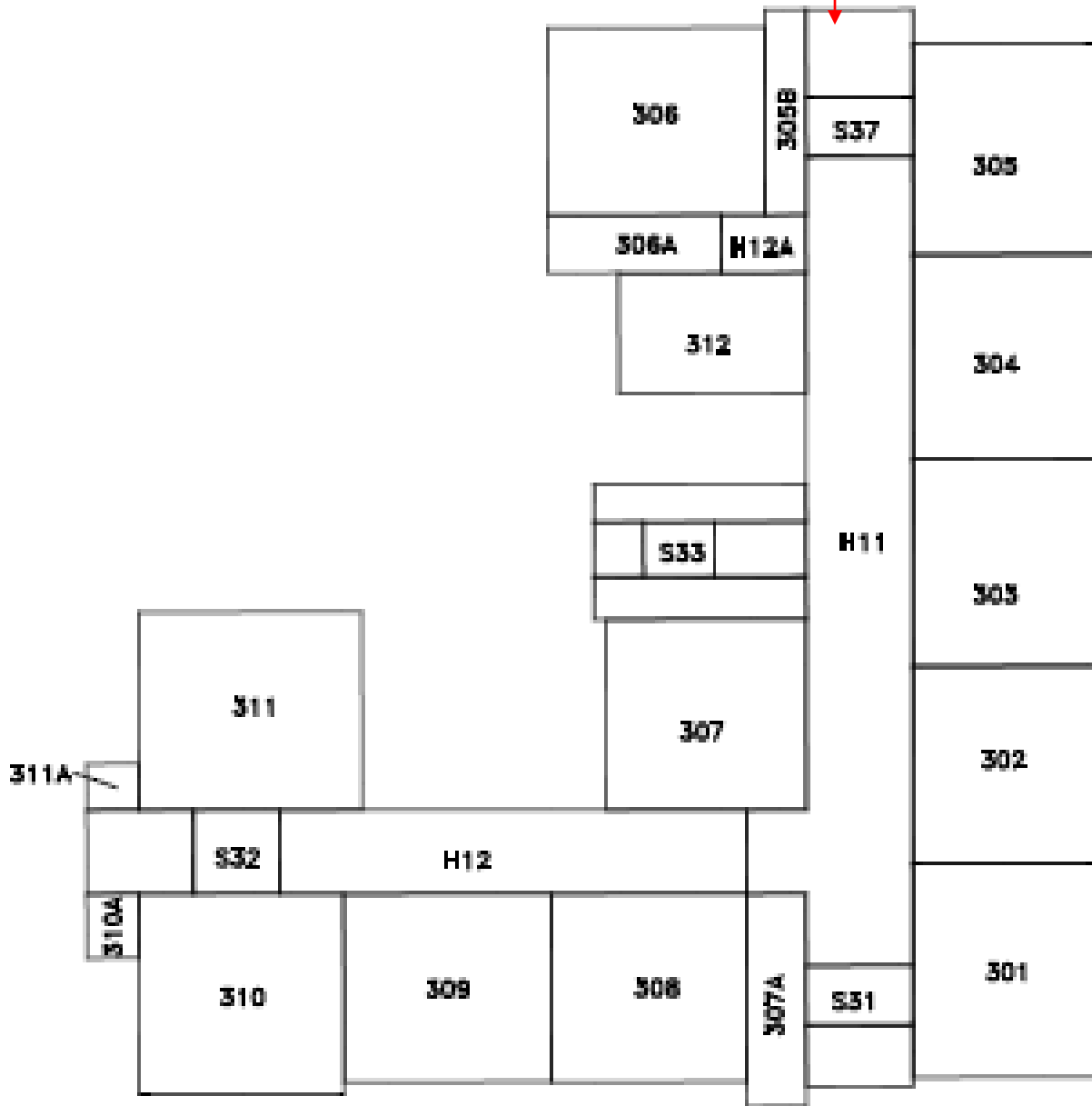
Scope of Work - 1 Major Project Abatement Location in the Basement Gymnasium & Pipe Chase												
1 Major Project abatement location in the basement Gymnasium		Gymnasium (001)				Use of Room:	Gymnasium	Student/Teacher Occupied?	Yes			
Space ID:		See above	Estimated # of Man-hours to Complete this Scope	To Be Determined		Water Location (hose bib preferred)		Basement Restroom				
Onsite Room Name:		See above				Electric Panel Tie-in Location (Majors)		Temporary electric panels have been installed in the basement, first and second floors				
Project Type: Incidental, Small, Minor, Major, Non-Friable		Major				Shower/Clean Room (Minors) or 3 Stage Decon Location (Majors)		Attached to the entrance of this major project containment				
High Traffic Area?		Yes				Potential For Damage - Air?		No				
High Activity Area?		Yes				Potential For Damage - Vibration?		Yes				
High Access Area?		Yes				Potential For Damage - Water?		Yes				
Material	Total Present	Damage Amount	Abatement Amount	Imminent Hazard?	Abatement Type	Specific Location	Alternative Method	Plywood Isolation Barriers Required?	Moveable Objects?	Is There Asbestos Debris on Movable Objects?	Glove Bag Tent or Full Containment	# of AFD's
	LF/SF	LF/SF	LF/SF	yes/no	Remove, Encapsulate, Enclose	i.e. riser #, wall#, window#	if yes, define	List locations	Provide Summary List			
Asbestos Containing Pipe/Pipe Fitting Insulation	400 LF, 90 Each + 12 LF in the Pipe Chase	16 LF 8 Each	Removal of All Material	No	Remove	Throughout	No Alternative Method Required	None Required	Gym Related Equipment	None Identified	Full Containment	-0.02" w.c. required
<p>Pre-clean all movable objects via wet-wiping and HEPA vacuum methods and relocate to a temporary storage location. Pre-clean all surfaces via wet-wiping and HEPA vacuum methods (including above ductwork) Install a 3 stage decontamination chamber at the entrance to Pre-K Classroom 011</p> <p>Install air filtration devices to establish a negative pressure differential of minimum -0.02" w.c. – a magnehelic gauge (manometer) shall be present to continuously measure negative pressure.</p> <p>The Asbestos Containing Pipe/Pipe Fitting Insulation to be removed shall be contained with two layers of polyethylene floor and wall sheeting. Note that the bottom layer of polyethylene floor sheeting must remain intact until the receipt of acceptable air sample results to protect the porous rubber flooring from contamination.</p> <p>After all metal jacketing is removed, glove bags shall be installed around all ACPI/ACPF to further diminish the release of asbestos fibers during removal</p> <p>Upon completion of removal, an acceptable final visual inspection and encapsulation, 5 TEMs shall be collected inside each containment</p> <p>Acceptable air sample results for individual air samples is &lt;0.01 s/cc – Abatement work area clearances are required to be below the geometric mean of 0.00554 s/cc</p>												



# Asbestos Design Data Collection (DDC)

## Alexander McClure Elementary School (7380) 3<sup>rd</sup> Floor

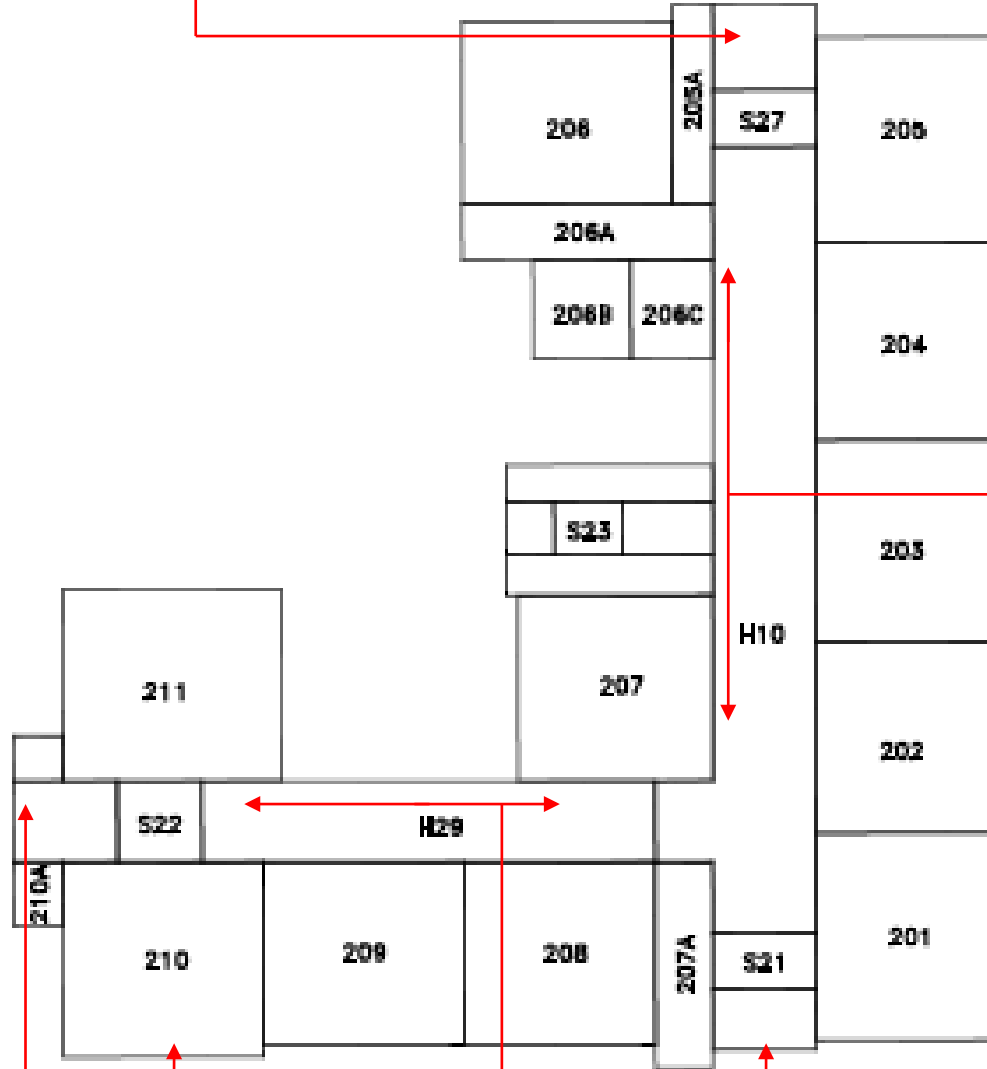
Marshall Street Stairwell S37 2<sup>nd</sup> – 3<sup>rd</sup> floor landing –  
Remove 44 linear feet of pipe/pipe fitting insulation  
from 2 Risers



## Alexander McClure Elementary School (7380) 2<sup>nd</sup> Floor

Marshall Street Stairwell S27 1<sup>st</sup> - 2<sup>nd</sup> floor landing –  
 Remove 44 linear feet of pipe/pipe fitting insulation from 2 Risers

Hallway H10 - Remove 84 linear feet of pipe/pipe fitting insulation  
 from 4 Risers (including all insulation above suspended ceiling)



Rear Parking Stairwell S22 1<sup>st</sup>- 2<sup>nd</sup> floor landing –  
 Remove 44 linear feet of pipe/pipe fitting insulation  
 from 2 Risers

N. 6<sup>th</sup> Street Stairwell S21 1<sup>st</sup> – 2<sup>nd</sup> floor landing -  
 Remove 44 linear feet of pipe/pipe fitting insulation  
 from 2 Risers

Classroom 210 – Encapsulate 1 linear foot of pipe insulation

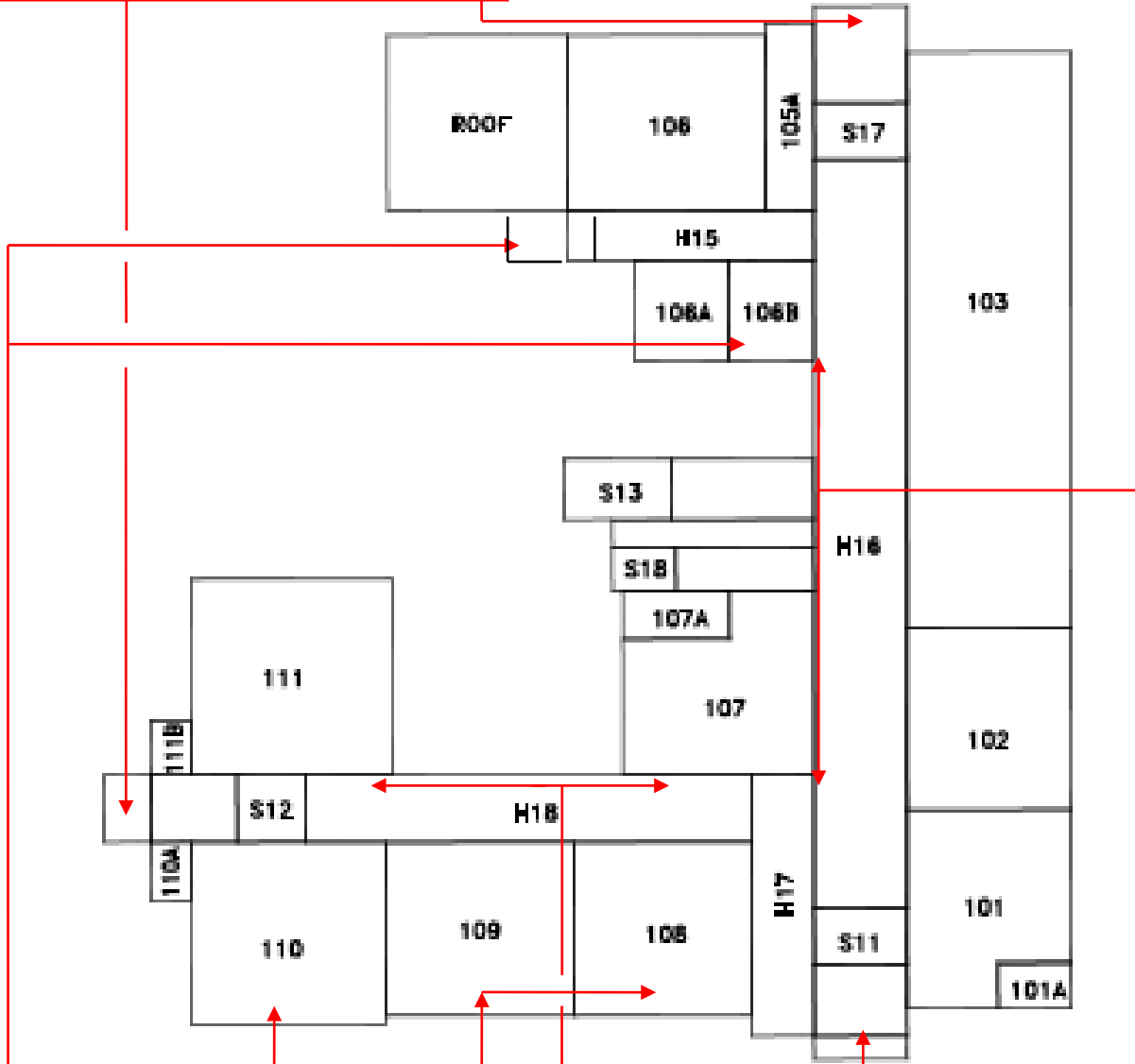
Hallway H29 - Remove 48 linear feet of pipe/pipe fitting insulation from  
 4 Risers (including all insulation above suspended ceiling)

## Alexander McClure Elementary School (7380)

### 1<sup>st</sup> Floor

Hallway H16 - Remove 84 linear feet of pipe/pipe fitting insulation from 4 Risers (including all insulation above suspended ceiling)

Marshall Street Entrance Vestibule S17 and Rear Parking Lot Entrance Vestibule S12 – Remove all pipe/pipe fitting insulation from 2 Risers (50 and 34 respectively)



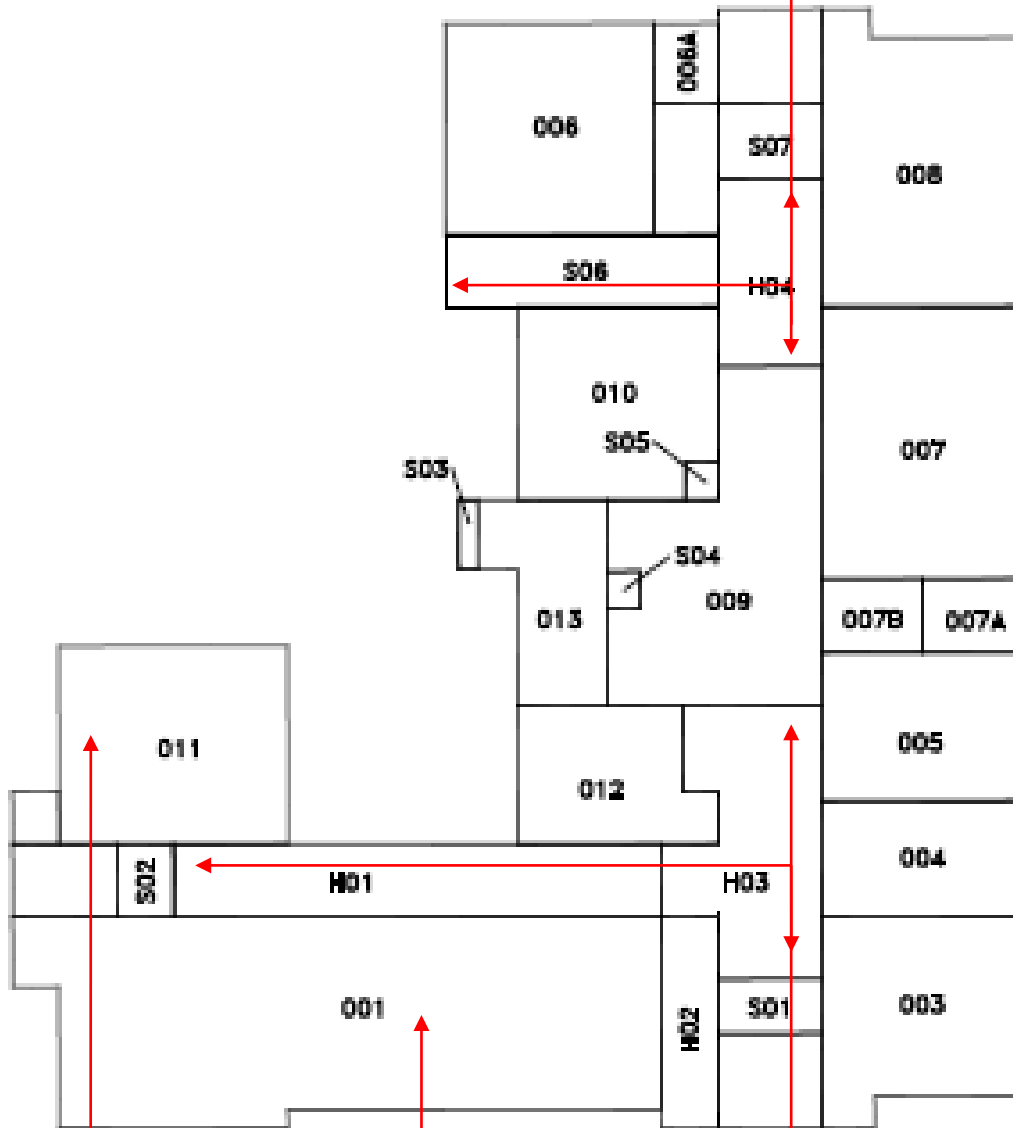
Classrooms 108, 109, 110, Main Office (106B), Office beside Copy Room (106C) – Encapsulate 1 linear foot of pipe/pipe fitting insulation

N. 6<sup>th</sup> Street Entrance Vestibule S11 – Remove 50 linear feet of pipe/pipe fitting insulation from 2 Risers

Hallway H18 - Remove 48 linear feet of pipe/pipe fitting insulation from 4 Risers (including all insulation above suspended ceiling)

## Alexander McClure Elementary School (7380) Basement

Hallway H04 and S06 (1 Combined Work Area) -  
Remove 170 linear feet of pipe/pipe fitting insulation



Pre-K Classroom 011 and Pipe Chase - Remove  
278 linear feet of pipe/pipe fitting insulation

Hallway H01 and H03 (1 Combined Work Area) -  
Remove 350 linear feet of pipe/pipe fitting insulation

Gymnasium 001 and Pipe Chase - Remove  
502 linear feet of pipe/pipe fitting insulation