

June 26, 2014

Mr. Dennis Walsh Klein, Thorpe & Jenkins Limited Suite 1600 20 North Wacker Drive Chicago, Illinois, 60606

# Subject:Quantification of Asbestos Containing Materials and Lead-Based Paint<br/>Former Illinois State Mental Institution (Tinley Park Mental Health Center),<br/>7600 West 183<sup>rd</sup> Street, Tinley Park, Illinois 60477<br/>Project No. 103P3304

Dear Mr. Walsh

Tetra Tech, Inc. is pleased to submit the enclosed Quantification of Asbestos Containing Materials and Lead-Based Paint Report regarding the Former Illinois State Mental Institution (Tinley Park Mental Health Center), at 7600 West 183rd Street, Tinley Park, Illinois.

Tetra Tech will use the quantification report to obtain preliminary cost estimates for pre-construction demolition.

If you have any questions or comments regarding this submittal, please call me at (312) 201-7474.

Sincerely,

Tom Hahne Project Manager

cc. File

# QUANTIFICATION OF ASBESTOS CONTAINING MATERIALS AND LEAD-BASED PAINT

# FORMER TINLEY PARK MENTAL HEALTH FACILITY TINLEY PARK, ILLINOIS

Prepared for:

Klein, Thorpe & Jenkins Limited Suite 1600 20 North Wacker Drive Chicago, Illinois, 60606

Prepared by:

Tetra Tech Inc. 1 S. Wacker Drive, 37th Floor Chicago, IL 60606



June 2014

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# **1.0 INTRODUCTION**

Tetra Tech, Inc. (Tetra Tech) was tasked by Klein, Thorpe & Jenkins Limited to conduct a site assessment to quantify asbestos containing materials (ACM) and lead-based paint (LBP) at 47 buildings and underground tunnels at the Former Illinois State Mental Institution (Tinley Park Mental Health Center), at 7600 West 183rd Street, Tinley Park, Illinois (the subject property). The subject property buildings are no longer occupied. The primary purpose of the survey was to conduct an assessment of ACM and LBP quantities based on the review of previous asbestos and LBP survey reports, including asbestos management plans, and site inspection of all of the 47 buildings and underground tunnels at the subject property. Figure 1 shows the site layout and existing buildings.

Tetra Tech conducted the site survey between June 2 and 5, 2014. Tetra Tech's Project Manager for the survey was Mr. Tom Hahne. The survey team included Mr. Jeffrey Mitchell, a certified U.S. Environmental Protection Agency (EPA) asbestos and LBP inspector, and Ms. Kaitlyn Bahr, a licensed EPA asbestos inspector. Inspector certifications are in Appendix A. Three reports documenting previous surveys were provided, the National Emission Standards for Hazardous Air Pollutants (NESHAP) Pre-Demolition Asbestos Inspection (ErG 2013b), and the Asbestos Management Plan Report (Fox & Fox Architects & Engineers [Fox] 1994). Because of limitations on destructive site investigation methods and on accessibility, it was not possible to verify the presence of all materials identified in these previous surveys. During Tetra Tech's survey in early June 2014, many of these materials remained inaccessible, and therefore Tetra Tech was not able to verify the presence of these materials. For purposes of this report, these materials are assumed present and considered ACM until otherwise proven to be non-ACM or not present.

Multiple asbestos abatement activities have been completed since development of the Asbestos Management Plan. Tetra Tech reviewed the available asbestos abatement reports, provided by the Site Engineer, to aid its effort to determine the quantities of ACM currently present in each building. Importantly, despite completion of multiple surveys at the subject property, ACM may also still be present within walls, voids, or other concealed areas not accessible during the survey.

Tetra Tech prepared this report in accordance with generally accepted industrial hygiene practices and procedures. This report does not cover structural areas that were not visibly assessed. The data

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evaluation and assessment stated herein constitute a professional opinion; no other warranty is expressed or implied. Tetra Tech did not collect samples for asbestos analysis and relied upon the analytical data provided from prior surveys.

Tetra Tech provided these services consistent with the level and skill ordinarily exercised by members of the profession currently practicing under similar conditions. This statement is in lieu of other statements either expressed or implied. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document, the findings, conclusions, or recommendations is at the risk of said user. This survey report does not warrant against future operations or conditions that may not be consistent with its recommendations. Moreover, because of some limitations on destructive site investigation during the survey, completion of the survey does not guarantee identification of all ACMs and LBPs—hazardous materials may be present in voids of walls or ceilings.

# 2.0 SUBJECT PROPERTY STRUCTURES

Table 1 below lists the 47 buildings. their CDB (Capital Development Board) numbers and their common names within the subject property that Tetra Tech investigated as part of this project.

Number	CDB Building Number	Building Name
1	B4001	Social Hab-Pt Building
2	B4100	Neighborhood House 100
3	B4101-B4104	Residential Units 101-104
4	B4105-B4107	Residential Units 105-107
5	B4108-B4110	Residential Units 108-110
6	B4200	Neighborhood House 200
7	B4201-B4204	Residential Units 201-204
8	B4205-B4207	Residential Units 205-207
9	B4208-B4210	Residential Units 208-210
10	B4300	Neighborhood House 300
11	B4301-B4304	Residential Units 301-304
12	B4305-B4307	Residential Units 305-307
13	B4308-B4310	Residential Units 308-310
14	B4400	Neighborhood House 400
15	B4401-B4404	Residential Units 401-404
16	B4405-B4407	Residential Units 405-407
17	B4408-B4410	Residential Units 408-410
18	B4500	Neighborhood House 500
19	B4501-B4504	Residential Units 501-504
20	B4505-B4507	Residential Units 505-507
21	B4508-B4510	Residential Units 508-510
22	B4002	Personnel Building #2
23	B4003	Administration Building #3
24	BB001	Pump House #1
25	BB002	Pump House #2
26	BB003	Pump House #3
27	BB019	Willow Hall
28	B4031	Pine Hall
29	BB006	Water Treatment Plant #6
30	BB008	Power Plant #8
31	BB020	Oak Hall #20
32	BB021	Hickory Hall #21
33	BB022	Sycamore Hall #22
34	BB025	Garage Building #25
35	BB026	Maple Hall #26
36	BB027	Administration Building #27
37	BB028	Spruce Hall #28
38	BB029	Mimosa Hall #29
39	BB030	Gen Mech Store/Shop
40	BB032	Cedar Hall #32
41	B4114	Cottage #1 – Building #24

# TABLE 1LIST OF SUBJECT PROPERTY BUILDINGS

Number	CDB Building Number	Building Name
42	B4214	Cottage #2 – Building #44
43	B4314	Cottage #3 – Building #45
44	B4414	Cottage #4 – Building #42
45	B4514	Cottage #5 – Building #43
46	B4614	Cottage #6 – Building #40
47	B4714	Cottage #7 – Building #41
Not applicable (NA)	NA	Tunnels
Note: CDB = Capital Development Board		

# 3.0 SITE ASBESTOS QUANTITY VERIFICATION SUMMARY OF FINDINGS

The site asbestos quantity verification included all accessible areas throughout each building on the subject property. Below is a summary of the findings for each of the 47 buildings and the underground tunnels surveyed. Appendix B includes a table with further detail and estimated quantities of the ACM and LBP verified in each building.

# 3.1 HOWE DEVELOPMENT CENTER BUILDINGS

The following 23 buildings (a recreation center, administrative buildings, and housing units) are part of the Howe Development Center on the southwest part of the subject property:

# CDB Building # B4001 – Social Hab-Pt Building

The following ACMs were identified: 1 foot (') x 1' white floor tile and mastic, wood fire doors, fire damper insulation, exhaust backdraft insulation, mastic underneath wood floor, under floor duct pipe and Transite<sup>®</sup>, rooftop ductwork insulation (black tar covering ductwork), and Transite<sup>®</sup> light covers. The floor tile with associated mastic and rooftop ductwork insulation were sampled and confirmed as ACMs during the NESHAP Pre-Demolition Asbestos Inspection (ECG 2013a). According to the Asbestos Management Plan Report (Fox 1994), the remaining ACMs were not sampled, but assumed present. No LBP was identified in the previous LBP inspection.

# CDB Building # B4100 - Neighborhood House 100

The following ACMs were identified: 1' x 1' white floor tile and mastic, fire damper insulation, exhaust backdraft insulation, and Transite<sup>®</sup> floor duct. The floor tile with associated mastic was sampled and confirmed as ACM during the NESHAP Pre-Demolition Asbestos Inspection (ECG 2013a). According to the Asbestos Management Plan Report (Fox 1994), the remaining ACMs were not sampled but assumed present. No LBP was identified in the previous LBP inspection.

# CDB Building # B4101- #B4104 - Residential Units 101-104

The following ACMs were identified: 1' x 1' white floor tile and mastic, wood and metal fire doors, fire damper insulation, exhaust backdraft insulation, under floor duct pipe Transite<sup>®</sup>, and Transite<sup>®</sup> light covers. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled but assumed present. No LBP was identified in the previous LBP inspection.

# CDB Building # B4105- #B4107 – Residential Units 105-107

The following ACMs were identified: 1' x 1' white floor tile and mastic, wood and metal fire doors, fire damper insulation, exhaust backdraft insulation, under floor duct pipe Transite<sup>®</sup>, and Transite<sup>®</sup> light covers. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled but assumed present. No LBP was identified in the previous LBP inspection.

# CDB Building # B4108- #B4110 – Residential Units 108-110

The following ACMs were identified: 1' x 1' white floor tile and mastic, wood and metal fire doors, fire damper insulation, exhaust backdraft insulation, under floor duct pipe Transite<sup>®</sup>, and Transite<sup>®</sup> light covers. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled but assumed present. No LBP was identified in the previous LBP inspection.

# CDB Building # B4200 - Neighborhood House 200

The following ACMs were identified: 1' x 1' white floor tile and mastic, fire damper insulation, exhaust backdraft insulation, exterior window caulk, and Transite<sup>®</sup> floor duct. The exterior window caulk was sampled and confirmed as ACM during the NESHAP Pre-Demolition Asbestos Inspection (ECG 2013a). According to the Asbestos Management Plan Report (Fox 1994), the remaining ACMs were not sampled but assumed present. No LBP was identified in the previous LBP inspection.

# CDB Building # B4202- #B4204 – Residential Units 201-204

The following ACMs were identified: 1' x 1' white floor tile and mastic, wood fire and metal doors, fire damper insulation, exhaust backdraft insulation, built-up roof and flashing, under floor duct pipe Transite<sup>®</sup>, and Transite<sup>®</sup> light covers. The floor tile with associated mastic was sampled and confirmed as ACM during the NESHAP Pre-Demolition Asbestos Inspection (ECG 2013a). According to the Asbestos Management Plan Report (Fox 1994), the remaining ACMs were not sampled but assumed present. No LBP was identified in the previous LBP inspection.

# CDB Building # B4205- #B4207 – Residential Units 205-207

The following ACMs were identiified: 1' x 1' white floor tile and mastic, wood fire and metal doors, fire damper insulation, exhaust backdraft insulation, built-up roof and flashing, under floor duct pipe Transite<sup>®</sup>, and Transite<sup>®</sup> light covers. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled but assumed present. No LBP was identified in the previous LBP inspection.

# CDB Building # B4208- #B4210 - Residential Units 208-210

The following ACMs were identified: 1' x 1' white floor tile and mastic, wood fire and metal doors, fire damper insulation, exhaust backdraft insulation, built-up roof and flashing, under floor duct pipe Transite<sup>®</sup>, and Transite<sup>®</sup> light covers. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled but assumed present. No LBP was identified in the previous LBP inspection.

# CDB Building # B4300 - Neighborhood House 300

The following ACMs were identified: 1' x 1' white floor tile and mastic, fire damper insulation, exhaust backdraft insulation, and Transite<sup>®</sup> floor duct. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled but assumed present. No LBP was identified in the previous LBP inspection.

# CDB Building # B4301- #B4304 - Residential Units 301-304

The following ACMs were identified: 1' x 1' white floor tile and mastic, wood fire and metal doors, fire damper insulation, exhaust backdraft insulation, under floor duct pipe Transite<sup>®</sup>, and Transite<sup>®</sup> light covers. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled but assumed present. No LBP was identified in the previous LBP inspection.

# CDB Building # B4305- #B4307 - Residential Units 305-307

The following ACMs were identified: 1' x 1' white floor tile and mastic, wood fire and metal doors, fire damper insulation, exhaust backdraft insulation, under floor duct pipe Transite<sup>®</sup>, and Transite<sup>®</sup> light covers. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled but assumed present. No LBP was identified in the previous LBP inspection.

# CDB Building # B4308- #B4310 - Residential Units 308-310

The following ACMs were identified: 1' x 1' white floor tile and mastic, wood fire and metal doors, fire damper insulation, exhaust backdraft insulation, under floor duct pipe Transite<sup>®</sup>, and Transite<sup>®</sup> light covers. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled but assumed present. No LBP was identified in the previous LBP inspection.

# CDB Building # B4400 - Neighborhood House 400

The following ACMs were identified: 1' x 1' white floor tile and mastic, fire damper insulation, exhaust backdraft insulation, and Transite<sup>®</sup> floor duct. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled but assumed present. No LBP was identified in the previous LBP inspection.

# CDB Building # B4401- #B4404 – Residential Units 401-404

The following ACMs were identified: 1' x 1' white floor tile and mastic, wood and metal fire doors, fire damper insulation, exhaust backdraft insulation, under floor duct pipe Transite<sup>®</sup>, built-up roof and flashing, and Transite<sup>®</sup> light covers. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled but assumed present. No LBP was identified in the previous LBP inspection.

# CDB Building # B4405- #B4407 - Residential Units 405-407

The following ACMs were identified: 1' x 1' white floor tile and mastic, wood and metal fire doors, fire damper insulation, exhaust backdraft insulation, under floor duct pipe Transite<sup>®</sup>, built-up roof and flashing, and Transite<sup>®</sup> light covers. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled but assumed present. No LBP was identified in the previous LBP inspection.

# CDB Building # B4408- #B44010 - Residential Units 408-410

The following ACMs were identified: 1' x 1' white floor tile and mastic, wood and metal fire doors, fire damper insulation, exhaust backdraft insulation, and built-up roof and flashing. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled but assumed present. No LBP was identified in the previous LBP inspection.

# CDB Building # B4500 – Neighborhood House 500

The following ACMs were identified: 1' x 1' white floor tile and mastic, fire damper insulation, exhaust backdraft insulation, and Transite<sup>®</sup> floor duct. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled but assumed present. No LBP was identified in the previous LBP inspection.

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# CDB Building # B4501- #B4504 - Residential Units 501-504

The following ACMs were identified: 1' x 1' white floor tile and mastic, wood and metal fire doors, fire damper insulation, exhaust backdraft insulation, under floor duct pipe Transite<sup>®</sup>, built-up roof and flashing, and Transite<sup>®</sup> light covers. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled but assumed present. No LBP was identified in the previous LBP inspection.

# CDB Building # B4505- #B4507 – Residential Units 505-507

The following ACMs were identtified: 1' x 1' white floor tile and mastic, wood and metal fire doors, fire damper insulation, exhaust backdraft insulation, under floor duct pipe Transite<sup>®</sup>, built-up roof and flashing, and Transite<sup>®</sup> light covers. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled but assumed present. No LBP was identified in the previous LBP inspection.

#### CDB Building # B4508- #B4510 - Residential Units 508-510

The following ACMs were identified: 1' x 1' white floor tile and mastic, wood and metal fire doors, fire damper insulation, exhaust backdraft insulation, under floor duct pipe Transite<sup>®</sup>, built-up roof and flashing, and Transite<sup>®</sup> light covers. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled but assumed present. No LBP was identified in the previous LBP inspection.

# CDB Building # B4002 – Personnel Building #2

The following ACMs were identified: 1' x 1' white floor tile and mastic, fire damper insulation, exhaust backdraft insulation, under floor duct pipe Transite<sup>®</sup>, built-up roof and flashing, and carpet adhesive. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled but assumed present. No LBP was identified in the previous LBP inspection.

# CDB Building # B4003 – Administration Building #3

The following ACMs were identified: 1' x 1' white floor tile and mastic, fire damper insulation, exhaust backdraft insulation, under floor duct pipe Transite<sup>®</sup>, built-up roof and flashing, and carpet adhesive. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled but assumed present. No LBP was identified in the previous LBP inspection.

Note: Little to no information is available regarding suspected ACMs on the roofs of the 23 buildings associated with the Howe Development Center (Numbers 1 through 23 in Table 1) and discussed above. The NESHAP Pre-Demolition Asbestos Inspection sampled built-up roofing materials and flashing on the CDB Building # B4001, Social Hab-Pt Building (Rec Center); the sample results showed non-detect for asbestos (ECG 2013a). The roofs of the remaining buildings should be inspected or presumed to be ACM.

# 3.2 OTHER SITE BUILDINGS AND STRUCTURES

The findings for the other site buildings are discussed below.

# CDB Building # BB001 – Pump House #1

The following ACMs were identified: cementitious fittings on cementitious insulation, cementitious pipe insulation, air cell pipe insulation, cementitious insulation on electrical conduit, and built-up roof and flashing. According to the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs except for the built-up roof and flashing, which was assumed to be ACM. No LBP was identified in the previous LBP inspection.

# CDB Building # BB002 – Pump House #2

The following ACMs were identified: cementitious pipe wrap and built-up roof. According to the Asbestos Management Plan Report (Fox 1994), the cementitious pipe wrap was sampled and confirmed to be ACM, but the built-up roof was not sampled and was assumed to be ACM. No LBP was identified in the previous LBP inspection.

# CDB Building # BB003 – Pump House #3

The following ACMs were identified: cementitious pipe wrap and built-up roof. According to the Asbestos Management Plan Report (Fox 1994), the cementitious pipe wrap was sampled and confirmed to be ACM, but the built-up roof was not sampled and was assumed to be ACM. No LBP was identified in the previous LBP inspection.

# CDB Building # BB019 – Willow Hall

The following ACMs were identified: sprayed-on speckled plaster ceiling, insulation on ventilation duct, flue insulation mag block, cementitious pipe insulation fittings, cementitious fittings on fiberglass or air

cell pipe, cementitious pipe insulation, air cell pipe insulation, exterior wall paneling, and stockpiled insulation mag block. According to the NESHAP Pre-Demolition Asbestos Inspection (ECG 2013a) and the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs. No LBP was identified in the previous LBP inspection.

# CDB Building # B4031 - Pine Hall

The following ACMs were identified: insulation on ventilation duct, cementitious pipe insulation fittings, cementitious fittings on fiberglass or air cell pipe, cementitious pipe insulation, air cell pipe insulation, flash tank cementitious insulation, 9 inch (") x 9" floor tile with associated mastic, 12" x 12" white floor tile with associated mastic, and fire doors. According to the NESHAP Pre-Demolition Asbestos Inspection (ECG 2013a) and the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs, except for the fire doors, which were not sampled and were assumed to be ACM. No LBP was identified in the previous LBP inspection.

# CDB Building # BB006 – Water Treatment Plant #6

The following ACMs were identified: cementitious boiler insulation, boiler flue insulation, cementitious fitting insulation on air cell pipe, cementitious fitting insulation on cementitious insulation, air cell pipe insulation, cementitious insulation on electrical conduit, cementitious tank insulation, brick base, boiler gasket insulation rope, metal fire doors, built-up roof, exhaust backdraft damper insulation, asbestos stockpile, boiler door insulation, interior window glaze, and cementitious fittings on fiberglass insulation. According to the NESHAP Pre-Demolition Asbestos Inspection(ECG 2013a) and the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs, except for the fire doors, built-up roofing, exhaust backdraft damper insulation, asbestos stockpile, and cementitious fittings on fiberglass insulation fittings on fiberglass insulation asbestos fittings on fiberglass insulation and the fire doors, built-up roofing, exhaust backdraft damper insulation, asbestos stockpile, and cementitious fittings on fiberglass insulation, asbestos fittings on fiberglass insulation fittings on fiberglass insulation, asbestos stockpile, and cementitious fittings on fiberglass insulation, which were not sampled and were assumed to be ACMs. LBP was identified in the previous LBP inspection report and is detailed in Appendix B.

# CDB Building # BB008 – Power Plant #8

The following ACMs were identified: boiler insulation, flue insulation, cementitious fitting on electrical conduit, cementitious pipe fitting, cementitious fitting on fiberglass insulation, air cell pipe fitting, cementitious pipe insulation, air cell pipe insulation, cementitious insulation on water softener tank, cemetitious insulation on holding tank, cementitious insulation on hot water tank, cementitious insulation on cindensate tanks, cementitious insulation on oil heating convert, feed water tank, boiler gaskets, 9" x

9" vinyl tile with associated mastic, exhaust backdraft damper insulation, and asbestos stockpile. According to the NESHAP Pre-Demolition Asbestos Inspection (ECG 2013a) and the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs except for the exhaust backdraft damper insulation, asbestos stockpile, and 9" x 9" vinyl tile with associated mastic, which were not sampled and were assumed to be ACMs. LBP was identified in the previous LBP inspection report and is detailed in Appendix B.

# CDB Building # BB020 – Oak Hall #20

The following ACMs were identified: cementitious insulation on ducts, cementitious pipe fitting, fitting on air cell pipe, cementitious pipe insulation, air cell pipe insulation, cementitious insulation on electrical conduit, cementitious material on booster pump, 12" x 12" vinyl floor tile with associated mastic, wood and metal fire doors, vibration damper insulation, fire damper insulation, exhaust backdraft damper insulation, Transite<sup>®</sup> pipe, and asbestos stockpile. According to the NESHAP Pre-Demolition Asbestos Inspection (ECG 2013a) and the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs, except for the fire doors, which were not sampled and were assumed to be ACM. No LBP was identified in the previous LBP inspection.

# CDB Building # BB021 – Hickory Hall #21

The following ACMs were identified: cementitious pipe fittings, cementitious pipe fitting on air cell pipe, cementitious pipe fitting on fiberglass pipe, cementitious pipe insulation, air cell pipe insulation, cementitious insulation on electrical conduit, booster tank insulation, vinyl floor sheeting with mastic, 9" x 9" floor tile with associated mastic, 1' x 1' floor tile with associated mastic, metal fire doors, built-up roof and flashing, cementitious backdraft damper insulation, fire damper insulation, mastic under carpet, and mastic under rubberized floor. According to the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs, except for the vinyl floor sheeting with mastic, 9" x 9" floor tile with associated mastic, 1' x 1' floor tile with associated mastic, metal fire doors, built-up roof and flashing, cemetitious backdraft damper insulation, fire damper insulation, mastic under carpet, and mastic under rubberized floor. According to the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs, except for the vinyl floor sheeting with mastic, 9" x 9" floor tile with associated mastic, 1' x 1' floor tile with associated mastic, metal fire doors, built-up roof and flashing, cemetitious backdraft damper insulation, fire damper insulation, mastic under carpet, and mastic under rubberized floor, which were not sampled and were assumed to be ACM. No LBP was identified in the previous LBP inspection.

# CDB Building # BB022 – Sycamore Hall # 22

The following ACMs were identified: cementitious fitting on hot water heating pipe, cementitious fitting on air cell pipe, cementitious fitting on fiberglass, cementitious insulation on hot water heating pipe, air

cell pipe insulation, cementitious insulation on electrical conduit, booster tank insulation, 9" x 9" floor tile with associated mastic, 1' x 1' floor tile with associated mastic, wood and metal fire doors, mastic under vinyl floor, exterior window caulk and glazing, and interior window glazing. According to the NESHAP Pre-Demolition Asbestos Inspection (ECG 2013a) and the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs except for the 9" x 9" floor tile with associated mastic, 1' x 2' floor tile with associated mastic, 1' x 1' floor tile with associated mastic, 1' x 2' floor tile with associated mastic, 1' x 1' floor tile with associated mastic, 1' x 1' floor tile with associated mastic, No LBP was identified in the previous LBP inspection.

# CDB Building # BB025 – Garage Building # 25

The following ACMs were identified: cementitious tank insulation, cementitious insulation on water tank #2, 9" x 9" floor tile with associated mastic, fire damper insulation, metal fire door, insulation on exhaust backdraft dampers, cementitious pipe fitting insulation on cementitious insulation, cementitious pipe insulation on air cell, cementitious pipe fitting on fiberglass pipe, cementitious insulation, air cell insulation, cementitious insulation on electrical conduit, and window caulking. According to the NESHAP Pre-Demolition Asbestos Inspection (ECG 2013a) and the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs except for the 9" x 9" floor tile with associated mastic, fire damper insulation, metal fire doors, and insulation in exhaust backdraft damper, which were not sampled and were assumed to be ACMs. No LBP was identified in the previous LBP inspection.

# CDB Building # BB026 – Maple Hall #26

The following ACMs were identified: cementitious insulation on ducts, cementitious fittings, cementitious fitting on fiberglass pipe, cementitious pipe insulation, cementitious material on booster pump, rope insulation around access panel, 9" x 9" light brown floor tile with associated mastic, 12" x 12" white and beige with brown floor tile with associated mastic, metal and wood fire doors, fire damper insulation, exhaust backdraft dampers, vibration damper insulation, carpet and mastic door, Transite<sup>®</sup> duct under door, and Transite<sup>®</sup> louvers. According to the NESHAP Pre-Demolition Asbestos Inspection (ECG 2013a) and the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs except for the wood and metal fire doors, fire damper insulation, exhaust backdraft damper insulation, carpet and mastic door, Transite<sup>®</sup> duct under door, and Transite<sup>®</sup> louvers, which were not sampled and were assumed to be ACMs. No LBP was identified in the previous LBP inspection.

# CDB Building # BB027 – Administration Building #27

The following ACMs were identified: cementitious fittings on pipe, cementitious pipe insulation, cementitious air cell pipe insulation, cementitious insulation on flash tank, cementitious insulation on hot water tank, Transite<sup>®</sup> siding around cooling tower, 9" x 9" floor tile with associated mastic, 1' x 1' floor tile with associated mastic, metal fire doors, and fire damper insulation. According to the NESHAP Pre-Demolition Asbestos Inspection (ECG 2013a) and the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs except for the wood and metal fire doors, fire damper insulation, exhaust backdraft dampers, vibration damper insulation, carpet and mastic door, Transite<sup>®</sup> duct under door, and Transite<sup>®</sup> louvers, which were not sampled and were assumed to be ACMs. No LBP was identified in the previous LBP inspection.

# CDB Building # BB028 – Spruce Hall #28

The following ACMs were identified: sprayed on plaster ceiling, cementitious fittings on fiberglass pipe insulation, cementitious fittings, cementitious fitting on air cell pipe, cementitious pipe insulation, air cell pipe insulation, cementitious insulation on conversion tank, 9" x 9" floor tile with associated mastic, metal fire doors, vibration damper, fire damper insulation, white linoleum flooring, and exhaust backdraft damper. According to the NESHAP Pre-Demolition Asbestos Inspection (ECG 2013a) and the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs except for the 9" x 9" floor tile with associated mastic, metal fire doors, vibration damper, shich were not sampled and were assumed to be ACMs. No LBP was identified in the previous LBP inspection.

# CDB Building # BB029 – Mimosa Hall #29

The following ACMs were identified: fittings on air cell pipe, fittings on cementitious pipe, fitting on fiberglass pipe, air cell pipe insulation, cementitious pipe insulation, cementitious insulation on booster tank, insulation on chiller tank, 9" x 9" floor tile with associated mastic, 1' x 1' floor tile with associated mastic, mastic under wood floor, carpet mastic over vinyl tile, wood and metal fire doors, canvas vibration damper, fire damper insulation, Transite<sup>®</sup> at cooling tower, and exhaust backdraft damper. According to the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs except for the 9" x 9" floor tile with associated mastic, 1' x 1' floor tile with associated mastic, mastic under wood floor, carpet mastic over vinyl tile, wood and metal fire doors, canvas vibration damper, fire damper insulation, Transite<sup>®</sup> at cooling to the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs except for the 9" x 9" floor tile with associated mastic, 1' x 1' floor tile with associated mastic, mastic under wood floor, carpet mastic over vinyl tile, wood and metal fire doors, canvas vibration damper, fire damper insulation, Transite<sup>®</sup> at cooling tower, and exhaust backdraft

damper, which were not sampled and were assumed to be ACMs. No LBP was identified in the previous LBP inspection.

# CDB Building # BB030 – Gen Mech Store/Shop #30

The following ACMs were identified: cementitious pipe fitting on air cell pipe, cementitious fittings on fiberglass pipe, cementitious pipe fitting on cementitious pipe, cementitious insulation on heat exchanger, air cell pipe insulation, cementitious pipe insulation, cementitious tank insulation, cooler door insulation, 9" x 9" floor tile with associated mastic, 1' x 1' floor tile with associated mastic, insulation inside fire damper access panel, metal fire doors, exhaust backdraft damper insulation, mastic sealant around conduit insulation, and asbestos stockpile. According to the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs except for the cooler door insulation, 9" x 9" floor tile with associated mastic, 1' x 1' floor tile with associated mastic, insulation inside fire damper access panel, metal fire doors, exhaust backdraft damper insulation inside fire damper access panel, and confirmed to be ACMs except for the cooler door insulation, 9" x 9" floor tile with associated mastic, insulation inside fire damper access panel, metal fire doors, exhaust backdraft damper insulation inside fire damper access panel, metal fire doors, exhaust backdraft damper insulation, mastic sealant around conduit insulation, and asbestos stockpile, which were not sampled and were assumed to be ACMs. LBP was identified in the previous LBP inspection report and is detailed in Appendix B.

# CDB Building # BB032 – Cedar Hall #32

The following ACMs were identified: cementitious fittings on air cell pipe, cementitious fittings on fiberglass pipe, cementitious fittings on cementitious pipe, cemetitious pipe insulation, 9" x 9" floor tile with associated mastic, sheet goods with mastic, metal fire doors, built-up roof, mastic under wood floor, exhaust backdraft damper, white linoleum flooring, and fire damper insulation. According to the NESHAP Pre-Demolition Asbestos Inspection (ECG 2013a) and the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs except for the 9" x 9" floor tile with associated mastic, 1' x 1' floor tile with associated mastic, 1' the second to be ACMs except for the 9" x 9" floor tile with associated mastic, 1' x 1' floor tile with associated mastic, sheet goods with mastic, metal fire doors, built-up roof, mastic under wood floor, exhaust backdraft damper, and fire damper insulation, which were not sampled and were assumed to be ACMs. LBP was identified in the previous LBP inspection report and is detailed in Appendix B.

# CDB Building # B4114 – Cottage #1 Building #24

The following ACMs were identified: 1' x 1' floor tile with associated mastic, metal fire doors, fire damper insulation, and exhaust backdraft damper insulation. According to the Asbestos Management Plan Report (Fox 1994), all these ACMs were not sampled and were assumed present as ACMs. No LBP was identified in the previous LBP inspection.

# CDB Building # B4214 - Cottage #2 Building #44

The following ACMs were identtified: 1' x 1' floor tile with associated mastic, metal fire doors, fire damper insulation, and exhaust backdraft damper insulation. According to the Asbestos Management Plan Report (Fox 1994), all these ACMs were not sampled and were assumed present as ACMs. No LBP was identified in the previous LBP inspection.

# CDB Building # B4314 - Cottage #3 Building #45

The following ACMs were identified: 1' x 1' floor tile with associated mastic, metal fire doors, fire damper insulation, and exhaust backdraft damper insulation. According to the Asbestos Management Plan Report (Fox 1994), all these ACMs were not sampled and were assumed present as ACMs. LBP was identified in the previous LBP inspection report and is detailed in Appendix B.

# CDB Building # B4414 – Cottage #4 Building #42

The following ACMs were identified: 1' x 1' floor tile with associated mastic, metal fire doors, fire damper insulation, and exhaust backdraft damper insulation. The floor tile with associated mastic was sampled, and the floor tile was confirmed to be ACM during the 2013 NESHAP Pre-Demolition Asbestos Inspection (ECG 2013a). According to the Asbestos Management Plan Report (Fox 1994), the remaining ACMs were not sampled and were assumed present as ACMs. No LBP was identified in the previous LBP inspection.

# CDB Building # B4514 – Cottage #5 Building #43

The following ACMs were identified: metal fire doors, fire damper insulation, and exhaust backdraft damper insulation. According to the Asbestos Management Plan Report (Fox 1994), all these ACMs were not sampled and were assumed present as ACMs. No LBP was identified in the previous LBP inspection.

# CDB Building # B4614 – Cottage #6 Building #40

The following ACMs were identified: 1' x 1' floor tile with associated mastic, metal fire doors, fire damper insulation, and exhaust backdraft damper insulation. According to the Asbestos Management Plan Report (Fox 1994), all these ACMs were not sampled and were assumed present as ACMs. No LBP was identified in the previous LBP inspection.

# CDB Building # B4714 – Cottage #7 Building #41

The following ACMs were identified: metal fire doors, fire damper insulation, and exhaust backdraft damper insulation. According to the Asbestos Management Plan Report (Fox 1994), all these ACMs were not sampled and were assumed present as ACMs. No LBP was identified in the previous LBP inspection.

# Tunnels

The following ACMs were identified: thermal systems insulation (TSI) of various pipe sizes and TSI joints. No previous survey reports or Asbestos Management Plans were available regarding the tunnels; therefore, due to the age of the material, all TSI was assumed to be ACM excluding the fiberglass insulation. No information on LBP sampling in the tunnels was provided; based on visual observation, minimal painted surfaces were present in the tunnels and LBP is not expected to be present.

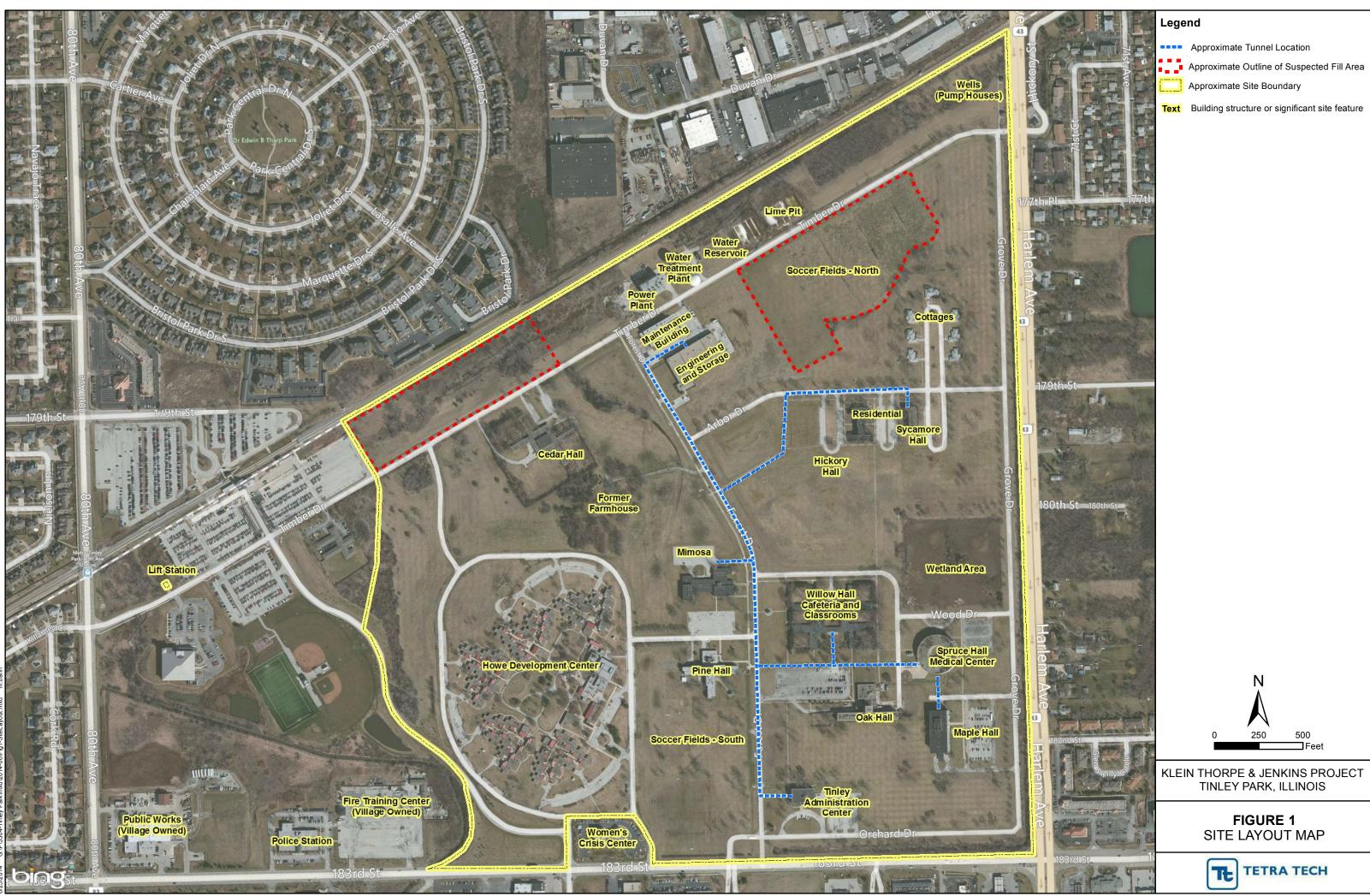
# 4.0 SUMMARY AND CONCLUSION

Tetra Tech believes that sufficient information concerning the types and quantities of ACM and LBP is present to evaluate the costs associated with pre-demolition abatement. ACM will require significant abatement prior to demolition and LBP painted surfaces can be managed during demolition with little impact to demolition costs.

Abatement will require use of a licensed asbestos removal contractor and should include third party oversight and air monitoring by an Illinois licensed asbestos during abatement and clearance sampling prior to release for open demolition.

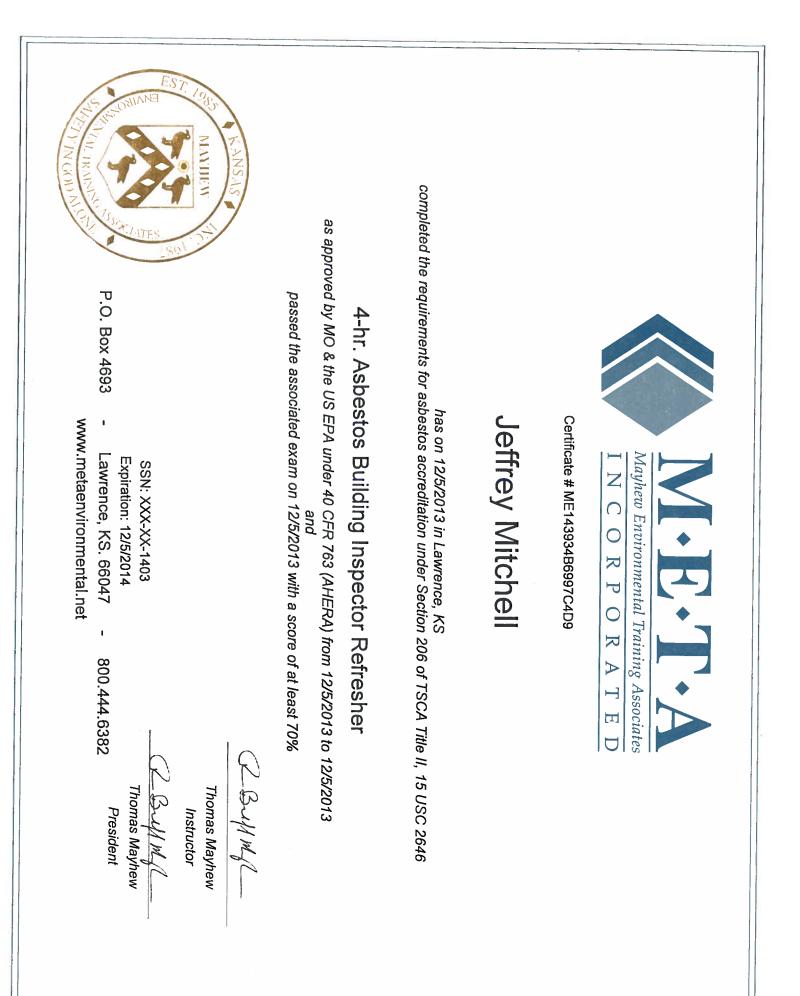
# 5.0 **REFERENCES**

- Environmental Consulting Group, Inc. (ECG). 2013a. NESHAP Pre-Demolition Asbestos Inspection. Tinley Park Mental Health Center and Howe Development Center. September 25
- ECG. 2013b. Lead-Based Paint Screening Inspection Report. Tinley Park Mental Health Center and Howe Development Center. September 25
- Fox and Fox Architects & Engineers (Fox). 1994. Asbestos Management Plan Report. Howe Mental Health Center, Department of Mental Health and Development Disabilities. October 10



APPENDIX A

**INSPECTOR CERTIFICATIONS** 





BAKER ENVIRONMENTAL CONSULTING, INC. Nationwide Testing. Training and Consulting for the Detection and Control of Environmental Hazards Serving America Through Our Nation's Heartland

# **Jeffrey Mitchell**

has successfully completed an 8 hour professionally accredited training course and passed an end of course exam with a score of at least 70% (80% in Kansas)

# LEAD-BASED PAINT INSPECTOR REFRESHER

Certificate #: LBPIR130621-05

Attendee's Listed Address: 415 Oak St., Kansas City, MO

Course Dates: June 21, 2013

Exam Date: June 21, 2013

Unique Identifying Number: LBPIR941306140321

raining Course Manager

www.bakerenvironmental.com

920 Massachusetts \* Lawrence, Kansas 66044 \* (913) 541-0220 \* info@bakerenvironmental.com

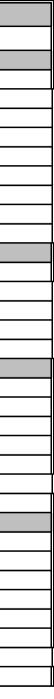
Image: Second	A-hr. Asbestos Building Inspector Refresher         as approved by M0 & the US EPA under 40 CFR 763 (AHERA) from 6/12/2014 to 6/12/2014         as approved by M0 & the US EPA under 40 CFR 763 (AHERA) from 6/12/2014         passed the associated exam on 6/12/2014 with a score of at least 70%         Bob Baer         Interaction:         Sintraction:         Bob Baer         Interaction:         Bob Baer         Interaction:         Bob Baer         Bob Baer         Interaction:         Bob Baer         Interaction:         Bob Baer         Interaction:         Bob Baer         Bob Baer         Interaction:         Bob Baer         Bob Baer         Interaction:         Bob Baer         Bob Baer         Bob Baer         Bob Baer         Interaction:         Bob Baer         Bob Baer
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**APPENDIX B** 

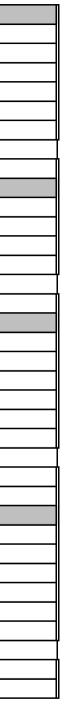
QUANTITIES OF ACM AND LBP FOR EACH BUILDING

	Quantifications of ACM ar	nd LBP for Each Building
	CDB Building # B4001 - S	Social Hab-Pt Building
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	14,023 SF	None
Fire Doors - Wood	7 each	None
Fire Damper Insulation	20 SF	None
Exhaust Backdraft Damper Insulation	50 each	None
Mastic under Wood Floor	7,960 SF	None
Ductwork Insulation on Roof	300 SF	Black tar covering parts of the fiberglass insulation on ducts
Under floor duct pipe and transite	690 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Transite Light Covers	60 each	None
	CDB Building # B4100 – Ne	eighborhood House 100
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	2,220 SF	None
Insulation on Fire Damper	15 each	None
Exhaust Backdraft Damper Insulation	15 each	None
Transite Floor Duct	300 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
	CDB Building # B4101- #B4104	– Residential Units 101-104
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	32 SF	Abatement has removed most of this material
Fire Door - Metal	8 each	Only metal fire doors were present; no wood fire doors were identifed
Insulation on Fire Damper	60 SF	None
Exhaust Backdraft Damper Insulation	60 each	None
Transite Floor Duct	1,200 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Light Covers	56 each	None
	CDB Building # B4105- #B4107	– Residential Units 105-107
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	24 SF	Abatement has removed most of this material
Fire Door - Wood	3 each	None
Fire Door - Metal	3 each	None
Insulation on Fire Damper	45 SF	None
Exhaust Backdraft Damper Insulation	45 each	None
Transite Floor Duct	900 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Light Covers	42 each	None

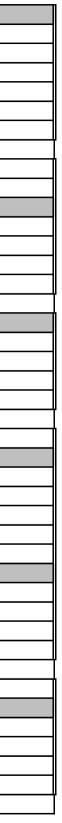
# Appendix B



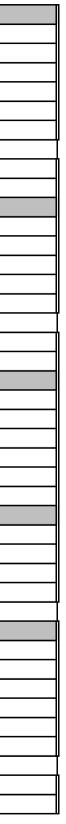
	CDB Building # B4108- #B4110 -	- Residential Units 108-110
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	24 SF	Abatement has removed most of this material
Fire Door - Wood	3 each	None
Fire Door - Metal	3 each	None
Insulation on Fire Damper	45 SF	None
Exhaust Backdraft Damper Insulation	45 each	None
Transite Floor Duct	900 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Light Covers	42 each	None
	CDB Building # B4200 – Ne	ighborhood House 200
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	2,240 SF	None
Insulation on Fire Damper	15 SF	None
Exhaust Backdraft Damper Insulation	15 each	None
Transite Floor Duct	300 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plar
Window Caulking	225 LF	None
	CDB Building # B4201- #B4204 -	- Residential Units 201-204
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	10,160 SF	None
Fire Door - Wood	4 each	None
Fire Door - Metal	4 each	None
Insulation on Fire Damper	60 SF	None
Exhaust Backdraft Damper Insulation	60 each	None
Transite Floor Duct	1,200 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plar
Built-up Roof and Flashing	9,800 SF	None
Light Covers	56 each	None
	CDB Building # B4205- #B4207 -	- Residential Units 205-207
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	7,740 SF	None
Fire Door - Wood	6 each	None
Fire Door - Metal	3 each	None
Insulation on Fire Damper	45 SF	None
Exhaust Backdraft Damper Insulation	45 each	None
Transite Floor Duct	900 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plar
Built-up Roof and Flashing	7,350 SF	None
Light Covers	39 each	None



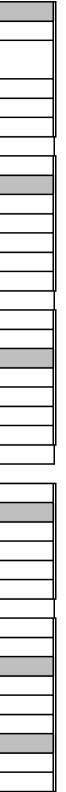
		Desidential Unite 200 210
	CDB Building # B4208- #B421	
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	7,740 SF	None
Fire Door - Wood	3 each	None
Fire Door - Metal	3 each	None
Insulation on Fire Damper	45 SF	None
Exhaust Backdraft Damper Insulation	45 each	None
Transite Floor Duct	900 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Built-up Roof and Flashing	7,350 SF	None
Light Covers	45 each	None
	CDB Building # B4300 – N	leighborhood House 300
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	2,150 SF	None
Insulation on Fire Damper	15 SF	None
Exhaust Backdraft Damper Insulation	15 each	None
Transite Floor Duct	300 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
	CDB Building # B4301- #B4304	4 – Residential Units 301-304
Material	Quantity	Notes
Fire Door - Metal	4 each	Only metal fire doors were present; no wood fire doors were identifed
Insulation on Fire Damper	60 SF	None
Exhaust Backdraft Damper Insulation	60 each	None
Transite Floor Duct	1,200 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Light Covers	49 each	None
	CDB Building # B4305- #B430	7 – Residential Units 305-307
Material	Quantity	Notes
Fire Door - Metal	3 each	Only metal fire doors were present; no wood fire doors were identifed
Insulation on Fire Damper	45 SF	None
Exhaust Backdraft Damper Insulation	45 each	None
Light Covers	39 each	None
	CDB Building # B4308- #B431	0 – Residential Units 308-310
Material	Quantity	Notes
Fire Door - Metal	3 each	Only metal fire doors were present; no wood fire doors were identifed
Insulation on Fire Damper	45 SF	None
Exhaust Backdraft Damper Insulation	45 each	None
Transite Floor Duct	900 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Light Covers	39 each	None
	CDB Building # B4400 – N	
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	2,200 SF	None
Insulation on Fire Damper	15 SF	None
Exhaust Backdraft Damper Insulation	15 each	None
Transite Floor Duct	300 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan



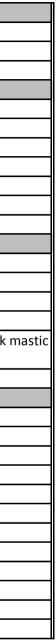
	CDB Building # B4401- #B4404 -	- Residential Units 401-404
Material	-	Notes
1' X 1' Floor Tile and Mastic	Quantity 8,700 SF	None
Fire Door - Wood	8 each	
Fire Door - Metal	4 each	None
Insulation on Fire Damper	60 SF	None
		None
Exhaust Backdraft Damper Insulation Transite Floor Duct	60 each	None
	1,200 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Built-up Roof and Flashing	9,800 SF	None
Light Covers	60 each	None
	CDB Building # B4405- #B4407 -	
Material	Quantity	Notes
Fire Door - Wood	12 each	None
Fire Door - Metal	4 each	None
Insulation on Fire Damper	45 SF	None
Exhaust Backdraft Damper Insulation	45 each	None
Transite Floor Duct	900 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Built-up Roof and Flashing	7,350 SF	None
Light Covers	39 each	None
	CDB Building # B4408- #B44010	– Residential Units 408-410
Material	Quantity	Notes
Fire Door - Wood	12 each	None
Fire Door - Metal	3 each	None
Insulation on Fire Damper	45 SF	None
Exhaust Backdraft Damper Insulation	45 each	None
Built-up Roof and Flashing	7,350 SF	None
	CDB Building # B4500 – Ne	ighborhood House 500
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	2,285 SF	None
Insulation on Fire Damper	15 SF	None
Exhaust Backdraft Damper Insulation	15 each	None
Transite Floor Duct	300 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
	CDB Building # B4501- #B4504 -	– Residential Units 501-504
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	9,880 SF	Floor tile has been removed; only mastic remains
Fire Door - Wood	4 each	None
Fire Door - Metal	8 each	None
Insulation on Fire Damper	60 SF	None
Exhaust Backdraft Damper Insulation	60 each	None
Transite Floor Duct	1,200 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Built-up Roofing	9,800 SF	None
Light Covers	60 each	None
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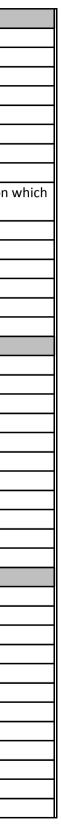
Material         Counting = 0400 motor         Notes           1' X 1' Floor Tile and Mastic         25.5F - Floor Tile 7.40 Sr - Mastic         Most of the floor tile has been abated, but the mastic was not 7.40 Sr - Mastic           Fire Door - Metai         3 each         Only metal fire doors were present, no wood fire doors were identified 1.msulation on Fire Damper         45 SF           Exhaust Backinst Damper Insulation         45 each         None           Transite Floor Duct         900 LF         Material is inaccessible, estimate is based on 1994 Fox OM Plan           Light Covers         45 each         None           CDB building # 84908- #84510 - Residential Units 508-510           Material         Quantity         Notes           1' X 1' Floor Tile and Mastic         7,410 SF         None           Fire Door - Metai         3 each         None           Insulation on Fire Damper         45 SF         None           Exhaust Backing TL Damper Insulation         45 each         None           Transite Floor Duct         900 LF         Material is inaccessible, estimate is based on 1994 Fox OM Plan           Built up Roofing         7,350 SF         None         None           Transite Floor Duct         900 LF         Material is inaccessible, estimate is based on 1994 Fox OM Plan           Built up Roofing		CDB Building # B4505- #B4507 –	Residential Units 505-507
1' X 1' Floor Tile and Mastic     26 SF - Floor Tile     Most of the floor tile has been abated, but the mastic was not       Fire Door - Metal     3 each     Only metal fire doors were present; no wood fire doors were identified       Insulation on Fire Damper     45 SF     None       Exhaust Endord Timper insulation     45 each     None       Transite Floor Duct     900 LF     Material is inaccessible, estimate is based on 1994 Fox OM Plan       Uight Covers     45 each     None       ODB Building # B408- #B4510 - Residential Units 508-510       Material     Quantity       None       International Colspan="2">Motes       1' X 1' Floor Tile and Mastic     7,4105 F     None       International Colspan="2">None       International Colspan="2">Motes       International Colspan="2">Motes       International Colspan="2">Motes       International Colspan="2">International Colspan="2"       Internationa Colsp	Material		
1* X 1* Ploor The and Mastic     7,410 SF - Mastic     Most of the floor tile has been abated, but the mastic was not       Fire Door - Metal     3 each     Only metal fire doors were present; no wood fire doors were identifed       Insulation on Fire Damper     45 SF     None       Exhaust Backdraft Damper Insulation     45 sach     None       Transite Floor Duct     900 LF     Material is haccessible, estimate is based on 1994 Fox OM Plan       Uight Covers     45 sach     None       CDB Building # B4508: #B4510       Material     Quantity     Notes       1* X 1* Floor Tile and Mastic     7,410 SF     None       Fire Door - Metal     3 each     None       Insulation on Fire Damper     45 SF     None       Exhaust Backdraft Damper Insulation     45 sech     None       Transite Floor Duct     900 LF     Material is inaccessible, estimate is based on 1994 Fox OM Plan       Built-up Roofing     7,330 SF     None       CDB Building # B4002- Personnel Building #2       CDB Building # B4002- Personnel Building #2       Mone       Light Covers       CDB Building # B4002- Administration Building #2       CDB Building # B4002- Administration Building #2       Mone       CDB Building # B4003 - Administration Buildi			Notes
Fire Door - Metal         3 each         Only metal fire doors were present; no wood fire doors were identifed           Insulation on Fire Damper         45 \$F         None           Exhaust Backdraft Damper Insulation         45 each         None           Transite Floor Duct         900 UF         Material is inaccessible, estimate is based on 1994 Fox OM Plan           Light Covers         45 each         None           CDB Building # B4508- #B4510 - Residential Units 508-510           Material         Quantity         None           1' X 1' Floor Tile and Mastic         7,410 \$F         None           Fire Door - Metal         3 each         None           Insulation on Fire Damper         45 \$F         None           Transite Floor Duct         900 LF         Material is inaccessible, estimate is based on 1994 Fox OM Plan           Built- up Roofing         7,350 SF         None         None           Upit Covers         45 each         None         None           Usit up Roofing         7,350 SF         None         None           Usit Up Roofing         20 each         None         None           Usit Up Roofing         20 each         None         None           Under Floor Duct Pipe and Transite         350 LF         Material is in	1' X 1' Floor Tile and Mastic		Most of the floor tile has been abated, but the mastic was not
Insulation on Fire Damper         45 SF         None           Exhaust Backdraft Damper Insulation         45 each         None           Transite Floor Duct         900 LF         Material is inaccessible, estimate is based on 1994 Fox OM Plan           Light Covers         455 each         None           CDB Building # B4508-#84510 - Residential Units 508-510           Material         Quantity         None           1' X 1' Floor Tile and Mastic         7,410 SF         None           File Door - Metal         3 each         None           Insulation on Fire Damper         45 SF         None           Exhaust Backdraft Damper Insulation         45 sech         None           Built-up Roofing         7,350 SF         None           Light Covers         45 sech         None           CDB Building # B4002 - Personnel Building #2           Material         Quantity         Notes           1' X 1' Floor Tile and Mastic         42 ado SF         None           Light Covers         45 sech         None           Light Covers         45 sech         None           CDB Building # B4002 - Administration         None         None           Light Covers         45 sech         None         None </td <td>Fire Door - Metal</td> <td></td> <td>Only metal fire doors were present: no wood fire doors were identifed</td>	Fire Door - Metal		Only metal fire doors were present: no wood fire doors were identifed
Exhaust Backdraft Damper Insulation         45 Each         None           Transite Floor Duct         900 LF         Material is inaccessible, estimate is based on 1994 Fox OM Plan           Light Covers         45 Each         None           CDB Building # B4508-#B4510 - Residential Units 508-510           Material         Quantity         Notes           1'X 1' Floor Tile and Mastic         7,410 SF         None           Fire Door - Metal         3 each         None           Issulation on Fire Damper         45 SF         None           Transite Floor Duct         900 LF         Material is inaccessible, estimate is based on 1994 Fox OM Plan           Built-up Roofing         7,350 SF         None           Transite Floor Duct         900 LF         Material is inaccessible, estimate is based on 1994 Fox OM Plan           Built-up Roofing         7,350 SF         None         None           CDB Building # B4002 - Personnel Building #2         None         None           Material         Quantity         None         None           1'X 1' Floor Tile and Mastic         4,240 SF         None         None           1'X 1' Floor Tile and Mastic         4,240 SF         None         None           Carpet Adhesive         988 SF         None			
Transite Floor Duct     900 LF     Material is inaccessible, estimate is based on 1994 Fox OM Plan None       CDB Building # B4308-#04500 - Residential Units 508-510       Material     Quantity     Notes       1'X 1' Floor Tile and Mastic     7, 410 SF     None       Fire Door - Metal     3 each     None       Insulation on Fire Damper     45 SF     None       Exhaust Backdraft Damper Insulation     45 each     None       Transite Floor Duct     900 LF     Material is inaccessible, estimate is based on 1994 Fox OM Plan       Built-up Boofing     7,350 SF     None       Uight Covers     45 each     None       CDB Building # 4002 - Personnel Building #2       CDB Building # 4002 - Personnel Building #2       Material       Quantity     Notes       1'X 1' Floor Tile and Mastic       1'X 1' Floor Tile and Mastic     4,240 SF     None       None       Exhaust Backdraft Damper Insulation     20 each     None       None       Exhaust Backdraft Damper Insulation       20 each     None       Under Floor Duct Pige and Transite     350 LF     Material is inaccessible, estimate is based on 1994 Fox OM Plan       CDB Building # B4003 - Administration Building #3	•		
Light Covers     45 each     None       CDB Building # B4508 - #B4510 - Residential Units 508-510       Material     Quantity     Notes       1'X 1'Floor Tile and Mastic     7,410.5F     None       Fire Door - Metal     3 each     None       Insulation on Fire Damper     45 SF     None       Exhaust Backdraft Damper Insulation     45 each     None       Transite Floor Duct     900 LF     Material is inaccessible, estimate is based on 1994 Fox OM Plan       Built-up Roofing     7,350.5F     None       Light Covers     45 each     None       CDB Building # B4002 - Personnel Building #2       Material     Quantity     Notes       Inter Damper Insulation       20 each     None       Fire Damper Insulation     20 each     None       Exhaust Backdraft Damper Insulation     20 each     None       Exhaust Backdraft Damper Insulation     20 each     None       CDB Building # B4003 - Administration Building #3       CD	•		
CDB Building # B4508 - #B4510 - Residential Units 508-510           Material         Quantity         Notes           1'X 1' Floor Tile and Mastic         7,410 SF         None           Isulation on Fire Damper         45 SF         None           Exhaust Backdraft Damper Insulation         45 each         None           Transite Floor Duct         900 LF         Material is inaccessible, estimate is based on 1994 Fox OM Plan           Built-up Roofing         7,30 SF         None           Light Covers         45 each         None           Material         Quantity         None           Material         Quantity         None           1' X 1' Floor Tile and Mastic         4,240 SF         None           1' X 1' Floor Tile and Mastic         4,240 SF         None           Exhaust Backdraft Damper Insulation         20 each         None           Under Floor Duct Pipe and Transite         350 LF         Material is inaccessible, estimate is based on 1994 Fox OM Plan           Built-up Roof         2,900 SF         None         None           Built-up Roof         2,900 SF         None         None           Built-up Roof         2,900 SF         None         None           Built-up Roof         2,900 SF         None			
1'X1' Floor Tile and Mastic     7,410 SF     None       Fire Door - Metal     3 each     None       Insulation on Fire Damper     45 SF     None       Exhaust Backdraft Damper Insulation     45 each     None       Transite Floor Duct     900 LF     Material is inaccessible, estimate is based on 1994 Fox OM Plan       Built-up Roofing     7,350 SF     None       Light Covers     45 each     None       CDB Building # B4002 - Personnel Building #2       Material       Quantity       Notes     None       1'X1' Floor Tile and Mastic     4,240 SF     None       Fire Damper Insulation     20 each     None       Exhaust Backdraft Damper Insulation     50 each     None       Carpet Adhesive     988 SF     None       Under Floor Duct Pipe and Transite     350 LF     Material is inaccessible, estimate is based on 1994 Fox OM Plan       Carpet Adhesive     988 SF     None       Built-up Roof     2,900 SF     None       Exhaust Backdraft Damper Insulation     20 each     None       1'X1' Floor Tile and Mastic     4,655 SF     None       Fire Damper Insulation     20 each     None       Under Floor Duct Pipe and Transite     400 LF     Material is inaccessible, estimate is based on 1994 Fox OM			
1'X1' Floor Tile and Mastic     7,410 SF     None       Fire Door - Metal     3 each     None       Insulation on Fire Damper     45 SF     None       Exhaust Backdraft Damper Insulation     45 each     None       Transite Floor Duct     900 LF     Material is inaccessible, estimate is based on 1994 Fox OM Plan       Built-up Roofing     7,350 SF     None       CDB Building # B4002 - Personnel Building #2     None       Material Quantity       Material     Quantity       None     None       Fire Damper Insulation     20 each     None       Fire Damper Insulation     50 each     None       Carpet Adhesive     988 SF     None       Under Floor Duct Pipe and Transite     350 LF     Material is inaccessible, estimate is based on 1994 Fox OM Plan       Carpet Adhesive     988 SF     None       Built-up Roof     2,900 SF     None       Material     Quantity     Notes       1' X 1' Floor Tile and Mastic     4,655 SF     None       Built-up Roof     2,900 SF     None       Built-up Roof     2,900 SF     None       Exhaust Backdraft Damper Insulation     20 each     None       I' X 1' Floor Tile and Mastic     4,655 SF     None       Fire Damper Insulation     20	Material		
Fire Door - Metal     3 each     None       Insulation on Fire Damper     45 SF     None       Exhaust Backfardt Damper Insulation     45 SF     None       Transite Floor Duct     900 LF     Material is inaccessible, estimate is based on 1994 Fox OM Plan       Built-up Roofing     7,350 SF     None       Light Covers     45 Seach     None       CDB Building # B4002 - Personnel Building #2       Material     Quantity       Material     Quantity     Notes       1' X 1' Floor Tile and Mastic     4,240 SF     None       Exhaust Backfarft Damper Insulation     20 each     None       Exhaust Backfarft Damper Insulation     50 each     None       Under Floor Duct Pipe and Transite     350 LF     Material is inaccessible, estimate is based on 1994 Fox OM Plan       Carpet Adhesive     988 SF     None       Built-up Roof     2,900 SF     None       CDB Building # B4003 - Administration Building #3       Material     Quantity     Notes       1' X 1' Floor Tile and Mastic     4,655 SF     None       Exhaust Backfart Damper Insulation     20 each     None       1' X 1' Floor Tile and Mastic     4,655 SF     None       1' X 1' Floor Tile and Mastic     4,655 SF     None       Fire Damper Insu	1' X 1' Floor Tile and Mastic		None
Exhaust Backdraft Damper Insulation45 eachNoneTransite Floor Duct900 LFMaterial is inaccessible, estimate is based on 1994 Fox OM PlanBuilt-up Roofing7,350 SFNoneLight Covers45 eachNoneCDB Building # B4002 - Personnel Building #2MaterialQuantityNotes1' X 1' Floor Tile and Mastic4,240 SFNoneFire Damper Insulation20 eachNoneUnder Floor Duct Pipe and Transite350 LFMaterial is inaccessible, estimate is based on 1994 Fox OM PlanCarpet Adhesive988 SFNoneBuilt-up Roof2,900 SFNoneCDB Building # B4003 - Administration Building #3NotesMaterialQuantityNotes1' X 1' Floor Tile and Mastic4,655 SFNoneFire Damper Insulation20 eachNoneBuilt-up Roof2,900 SFNoneCDB Building # B4003 - Administration Building #3MaterialQuantityNotes1' X 1' Floor Tile and Mastic4,655 SFNoneFire Damper Insulation20 eachNoneExhaust Backdraft Damper Insulation20 eachNoneUnder Floor Duct Pipe and Transite400 LFMaterial is inaccessible, estimate is based on 1994 Fox OM PlanMastic under Carpeting2,445 SFNoneBuilt-up Roof5,200 SFNoneBuilt-up Roof5,200 SFNoneCDB Building # BB001 - Pump House #1NotesCDB Building # BB001 - Pump House #1Notes <td< td=""><td>Fire Door - Metal</td><td>3 each</td><td></td></td<>	Fire Door - Metal	3 each	
Exhaust Backdraft Damper Insulation45 eachNoneTransite Floor Duct900 LFMaterial is inaccessible, estimate is based on 1994 Fox OM PlanBuilt-up Roofing7,350 SFNoneLight Covers45 eachNoneCDB Building # B4002 - Personnel Building #2MaterialQuantityNotes1' X 1' Floor Tile and Mastic4,240 SFNoneFire Damper Insulation20 eachNoneUnder Floor Duct Pipe and Transite350 LFMaterial is inaccessible, estimate is based on 1994 Fox OM PlanCarpet Adhesive988 SFNoneBuilt-up Roof2,900 SFNone1' X 1' Floor Tile and Mastic4,655 SFNoneCDB Building # B4003 - Administration Building #3Out Pipe and TransiteUnder Floor Duct Pipe and Transite00 achNoneNoneNoneBuilt-up Roof2,900 SFNone1' X 1' Floor Tile and Mastic4,655 SFNone1' X 1' Floor Tile and Mastic4,655 SFNone1' X 1' Floor Tile and Transite400 LFMaterial is inaccessible, estimate is based on 1994 Fox OM PlanCB Building # B4003 - Administration Building #3NoneCDB Building # B4003 - Administration Building #3NoneCDB Building # B4003 - Administration Building #3NoneCDB Building # B4003 - Pump House #1NoneMaterialQuantityNoneBuilt-up Roof5,200 SFNoneCDB Building # B8003 - Pump House #1None	Insulation on Fire Damper	45 SF	None
Built-up Roofing     7,350 SF     None       Light Covers     45 each     None       CDB Building # 84002 – Personnel Building #2       Material     Quantity     Notes       1' X 1' Floor Tile and Mastic     4,240 SF     None       1' X 1' Floor Tile and Mastic     4,240 SF     None       Exhaust Backdraft Damper Insulation     20 each     None       Exhaust Backdraft Damper Insulation     50 each     None       Under Floor Duct Pipe and Transite     350 LF     Material is inaccessible, estimate is based on 1994 Fox OM Plan       Carpet Adhesive     988 SF     None       Built-up Roof     2,900 SF     None       CDB Building # B4003 – Administration Building #3       Material       Quantity     Notes       None       1' X 1' Floor Tile and Mastic       1' X 1' Floor Tile and Mastic     4,655 SF       1' X 1' Floor Tile and Mastic     4,655 SF       None     None       Exhaust Backdraft Damper Insulation     20 each       Under Floor Duct Pipe and Transite     400 LF       Material to and Carpeting     2,445 SF       Built-up Roof     5,200 SF       None     None       Built-up Roof     5,200 SF       None     None   <	•	45 each	None
Light Covers     45 each     None       CDB Building # B4002 - Personnel Building #2       Material     Quantity     Notes       1' X 1' Floor Tile and Mastic     4,240 SF     None       Fire Damper Insulation     20 each     None       Exhaust Backfraft Damper Insulation     50 each     None       Under Floor Duct Pipe and Transite     350 LF     Material is inaccessible, estimate is based on 1994 Fox OM Plan       Carpet Adhesive     988 SF     None       Built-up Roof     2,900 SF     None       CDB Building # B4003 - Administration Building #3       Material     Quantity     Notes       None       Exhaust Backfraft Damper Insulation     20 each       Material     Quantity     Notes       Mone       CDB Building # B4003 - Administration Building #3       Material       Quantity     Notes       None       Exhaust Backfraft Damper Insulation       20 each       None       Exhaust Backfraft Damper Insulation       20 each       None       Exhaust Backfraft Damper Insulation       20 each       None	Transite Floor Duct	900 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
CDB Building # B4002 – Personnel Building #2           Material         Quantity         Notes           1' X 1' Floor Tile and Mastic         4,240 SF         None           Fire Damper Insulation         20 each         None           Under Floor Duct Pipe and Transite         350 LF         Material is inaccessible, estimate is based on 1994 Fox OM Plan           Carpet Adhesive         988 SF         None           Built-up Roof         2,900 SF         None           CDB Building # B4003 – Administration Building #3           Material           Quantity         Notes           1' X 1' Floor Tile and Mastic         4,655 SF         None           Fire Damper Insulation         20 each         None           Fire Damper Insulation         20 each         None           Fire Damper Insulation         20 each         None           Under Floor Duct Pipe and Transite         400 LF         Material is inaccessible, estimate is based on 1994 Fox OM Plan           Mastic under Carpeting         2,445 SF         None         None           Built-up Roof         5,200 SF         None         None           Built-up Roof         5,200 SF         None         None           Built-up Roof         5,200 SF <td< td=""><td>Built-up Roofing</td><td>7,350 SF</td><td>None</td></td<>	Built-up Roofing	7,350 SF	None
MaterialQuantityNotes1' X 1' Floor Tile and Mastic4,240 SFNoneFire Damper Insulation20 eachNoneExhaust Backdraft Damper Insulation50 eachNoneUnder Floor Duct Pipe and Transite350 LFMaterial is inaccessible, estimate is based on 1994 Fox OM PlanCarpet Adhesive988 SFNoneBuilt-up Roof2,900 SFNoneCDB Building # 84003 - Administration Building #3MaterialQuantityNotes1' X 1' Floor Tile and Mastic4,655 SFNone1' X 1' Floor Tile and Mastic4,655 SFNoneFire Damper Insulation20 eachNoneExhaust Backdraft Damper Insulation20 eachNoneUnder Floor Duct Pipe and Transite400 LFMaterial is inaccessible, estimate is based on 1994 Fox OM PlanMastic under Carpeting2,445 SFNoneUnder Floor Duct Pipe and Transite400 LFMaterial is inaccessible, estimate is based on 1994 Fox OM PlanMastic under Carpeting2,445 SFNoneBuilt-up Roof5,200 SFNoneCDB Building # BB001 - Pump House #1CDB Building # BB001 - Pump House #1MaterialQuantityNotesTil*4 LFNoneBuilt-up Roof and Flashing685 SFNoneCDB Building # BB002 - Pump House #2NotesCDB Building # BB002 - Pump House #2Notes	Light Covers	45 each	None
1'X 1' Floor Tile and Mastic       4,240 SF       None         Fire Damper Insulation       20 each       None         Exhaust Backdraft Damper Insulation       50 each       None         Under Floor Duct Pipe and Transite       350 LF       Material is inaccessible, estimate is based on 1994 Fox OM Plan         Carpet Adhesive       998 SF       None         Built-up Roof       2,900 SF       None         CDB Building # B4003 – Administration Building #3         Material       Quantity       Notes         1' X 1' Floor Tile and Mastic       4,655 SF       None         1' X 1' Floor Tile and Mastic       4,655 SF       None         Fire Damper Insulation       20 each       None         Exhaust Backdraft Damper Insulation       20 each       None         Under Floor Duct Pipe and Transite       400 LF       Material is inaccessible, estimate is based on 1994 Fox OM Plan         Mastic under Carpeting       2,445 SF       None         Built-up Roof       5,200 SF       None         CDB Building # BB001 – Pump House #1       None         Material       Quantity       Notes         The outper SF       None       None         Built-up Roof and Flashing       685 SF       None		CDB Building # B4002 – P	ersonnel Building #2
Fire Damper Insulation20 eachNoneExhaust Backdraft Damper Insulation50 eachNoneUnder Floor Duct Pipe and Transite350 LFMaterial is inaccessible, estimate is based on 1994 Fox OM PlanCarpet Adhesive988 SFNoneBuilt-up Roof2,900 SFNoneCDB Building # B4003 – Administration Building #3MotesUnder Floor Tile and Mastic4,655 SF1' X 1' Floor Tile and Mastic4,655 SFNoneFire Damper Insulation20 eachNoneExhaust Backdraft Damper Insulation20 eachNoneUnder Floor Duct Pipe and Transite400 LFMaterial is inaccessible, estimate is based on 1994 Fox OM PlanMatic under Carpeting2,445 SFNoneBuilt-up Roof5,200 SFNoneCDB Building # BB001 – Pump House #1MaterialQuantityNotesCDB Building # BB001 – Pump House #1Out PlanStift during BB001 – Pump House #1CDB Building # BB001 – Pump House #1CDB Building # BB001 – Pump House #1NoneCDB Building # BB001 – Pump House #2CDB Building # BB002 – Pump House #2CDB Building # BB002 – Pump House #2	Material	Quantity	Notes
Exhaust Backdraft Damper Insulation50 eachNoneUnder Floor Duct Pipe and Transite350 LFMaterial is inaccessible, estimate is based on 1994 Fox OM PlanCarpet Adhesive988 SFNoneBuilt-up Roof2,900 SFNoneCDB Building # 84003 – Administration Building #3CDB Building # 84003 – Administration Building #3NoneOut of the second se	1' X 1' Floor Tile and Mastic	4,240 SF	None
Under Floor Duct Pipe and Transite350 LFMaterial is inaccessible, estimate is based on 1994 Fox OM PlanCarpet Adhesive988 SFNoneBuilt-up Roof2,900 SFNoneCDB Building # B4003 – Administration Building #3MaterialQuantityNotes1' X 1' Floor Tile and Mastic4,655 SFNoneFire Damper Insulation20 eachNoneExhaust Backdraft Damper Insulation20 eachNoneUnder Floor Duct Pipe and Transite400 LFMaterial is inaccessible, estimate is based on 1994 Fox OM PlanMastic under Carpeting2,445 SFNoneBuilt-up Roof5,200 SFNoneCDB Building # BB001 – Pump House #1MaterialQuantityNotesMaterialQuantityNoneStilt-up Roof and Flashing685 SFNoneCDB Building # BB002 – Pump House #1NoneMaterialQuantityNoneBuilt-up Roof and Flashing685 SFNoneCDB Building # BB002 – Pump House #2NotesCDB Building # BB002 – Pump House #2Notes	Fire Damper Insulation	20 each	None
Carpet Adhesive988 SFNoneBuilt-up Roof2,900 SFNoneCDB Building # B4003 – Administration Building #3MaterialQuantityNotes1' X 1' Floor Tile and Mastic4,655 SFNoneFire Damper Insulation20 eachNoneExhaust Backdraft Damper Insulation20 eachNoneUnder Floor Duct Pipe and Transite400 LFMaterial is inaccessible, estimate is based on 1994 Fox OM PlanMastic under Carpeting2,445 SFNoneBuilt-up Roof5,200 SFNoneCDB Building # BB001 – Pump House #1CDB Suilding # BB001 – SNoneTSI*4 LFNoneBuilt-up Roof and Flashing685 SFNoneCDB Building # BB002 – Pump House #2CDB Building # BB002 – Pump House #2MaterialQuantityNotes	Exhaust Backdraft Damper Insulation	50 each	None
Built-up Roof2,900 SFNoneCDB Building # B4003 - Administration Building #3MaterialQuantityNotes1' X 1' Floor Tile and Mastic4,655 SFNoneFire Damper Insulation20 eachNoneExhaust Backdraft Damper Insulation20 eachNoneUnder Floor Duct Pipe and Transite400 LFMaterial is inaccessible, estimate is based on 1994 Fox OM PlanMastic under Carpeting2,445 SFNoneBuilt-up Roof5,200 SFNoneCDB Building # BB001 - Pump House #1MaterialQuantityNotesTSI*4 LFNoneBuilt-up Roof and Flashing685 SFNoneCDB Building # BB002 - Pump House #2NoneCDB Building # BB002 - Pump House #2NotesMaterialQuantityNotes	Under Floor Duct Pipe and Transite	350 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
CDB Building # B4003 – Administration Building #3MaterialQuantityNotes1' X 1' Floor Tile and Mastic4,655 SFNoneFire Damper Insulation20 eachNoneExhaust Backdraft Damper Insulation20 eachNoneUnder Floor Duct Pipe and Transite400 LFMaterial is inaccessible, estimate is based on 1994 Fox OM PlanMastic under Carpeting2,445 SFNoneBuilt-up Roof5,200 SFNoneCDB Building # BB001 – Pump House #1MaterialQuantityNotesTSI*4 LFNoneBuilt-up Roof and Flashing685 SFNoneCDB Building # BB002 – Pump House #2CDB Building # BB002 – Pump House #2MaterialQuantityNotes	Carpet Adhesive	988 SF	None
MaterialQuantityNotes1' X 1' Floor Tile and Mastic4,655 SFNoneFire Damper Insulation20 eachNoneExhaust Backdraft Damper Insulation20 eachNoneUnder Floor Duct Pipe and Transite400 LFMaterial is inaccessible, estimate is based on 1994 Fox OM PlanMastic under Carpeting2,445 SFNoneBuilt-up Roof5,200 SFNoneCDB Building # BB001 - Pump House #1NotesMaterialQuantityNotesTSI*4 LFNoneBuilt-up Roof and Flashing685 SFNoneCDB Building # BB002 - Pump House #2NotesMaterialQuantityNotes	Built-up Roof	2,900 SF	None
1' X 1' Floor Tile and Mastic4,655 SFNoneFire Damper Insulation20 eachNoneExhaust Backdraft Damper Insulation20 eachNoneUnder Floor Duct Pipe and Transite400 LFMaterial is inaccessible, estimate is based on 1994 Fox OM PlanMastic under Carpeting2,445 SFNoneBuilt-up Roof5,200 SFNoneCDB Building # BB001 - Pump House #1MaterialQuantityNotesTSI*4 LFNoneBuilt-up Roof and Flashing685 SFNoneCDB Building # BB002 - Pump House #2MaterialQuantityNoneCDB Building # BB002 - Pump House #2MaterialQuantityNotes		CDB Building # B4003 – Adm	inistration Building #3
Fire Damper Insulation20 eachNoneExhaust Backdraft Damper Insulation20 eachNoneUnder Floor Duct Pipe and Transite400 LFMaterial is inaccessible, estimate is based on 1994 Fox OM PlanMastic under Carpeting2,445 SFNoneBuilt-up Roof5,200 SFNoneCDB Building # BB001 – Pump House #1MaterialQuantityNotesTSI*4 LFNoneBuilt-up Roof and Flashing685 SFNoneCDB Building # BB002 – Pump House #2MaterialQuantityNotesCDB Building # BB002 – Pump House #2MaterialQuantityNotes	Material	Quantity	Notes
Exhaust Backdraft Damper Insulation20 eachNoneUnder Floor Duct Pipe and Transite400 LFMaterial is inaccessible, estimate is based on 1994 Fox OM PlanMastic under Carpeting2,445 SFNoneBuilt-up Roof5,200 SFNoneCDB Building # BB001 – Pump House #1MaterialQuantityNotesTSI*4 LFNoneBuilt-up Roof and Flashing685 SFNoneCDB Building # BB002 – Pump House #2MaterialQuantityMaterialQuantityNotes	1' X 1' Floor Tile and Mastic	4,655 SF	None
Under Floor Duct Pipe and Transite400 LFMaterial is inaccessible, estimate is based on 1994 Fox OM PlanMastic under Carpeting2,445 SFNoneBuilt-up Roof5,200 SFNoneCDB Building # BB001 – Pump House #1MaterialQuantityNotesTSI*4 LFNoneBuilt-up Roof and Flashing685 SFNoneCDB Building # BB002 – Pump House #2NoneMaterialQuantityNotesMaterialQuantityNoneBuilt-up Roof and Flashing685 SFNoneCDB Building # BB002 – Pump House #2NotesMaterialQuantityNotes	Fire Damper Insulation	20 each	None
Mastic under Carpeting2,445 SFNoneBuilt-up Roof5,200 SFNoneCDB Building # BB001 – Pump House #1MaterialQuantityNotesTSI*4 LFNoneBuilt-up Roof and Flashing685 SFNoneCDB Building # BB002 – Pump House #2MaterialQuantityNotesMaterialQuantityNotes	Exhaust Backdraft Damper Insulation	20 each	None
Built-up Roof       5,200 SF       None         CDB Building # BB001 – Pump House #1         Material       Quantity       Notes         TSI*       4 LF       None         Built-up Roof and Flashing       685 SF       None         CDB Building # BB002 – Pump House #2       Notes         Material       Quantity       Notes	Under Floor Duct Pipe and Transite	400 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
CDB Building # BB001 – Pump House #1         Material       Quantity       Notes         TSI*       4 LF       None         Built-up Roof and Flashing       685 SF       None         CDB Building # BB002 – Pump House #2       Notes         Material       Quantity       Notes	Mastic under Carpeting	2,445 SF	None
MaterialQuantityNotesTSI*4 LFNoneBuilt-up Roof and Flashing685 SFNoneCDB Building # BB002 – Pump House #2MaterialQuantityNotes	Built-up Roof	5,200 SF	None
TSI*     4 LF     None       Built-up Roof and Flashing     685 SF     None       CDB Building # BB002 – Pump House #2       Material     Quantity     Notes		CDB Building # BB001	– Pump House #1
Built-up Roof and Flashing     685 SF     None       CDB Building # BB002 – Pump House #2       Material     Quantity     Notes	Material	Quantity	Notes
CDB Building # BB002 – Pump House #2       Material     Quantity     Notes		4 LF	None
Material Quantity Notes	Built-up Roof and Flashing		
		CDB Building # BB002	– Pump House #2
Built-up Roof and Flashing 360 SF None			
	Built-up Roof and Flashing	360 SF	None



	CDB Building # BB	003 – Pump House #3
Material	Quantity	Notes
Built-up Roof and Flashing	360 SF	None
Lead-Based Paint	120 SF**	Door
	CDB Building # E	3B019 – Willow Hall
Material	Quantity	Notes
TSI*	11,600 LF	None
Sprayed-on Speckled Plaster Ceiling	31,090 SF	None
Insulation on Ventilation Duct	10,000 SF	None
Flue Insulation Mag Block	300 SF	None
Exterior Transite Panels	13,900 SF	None
Stockpiled Insulation Mag Block	NA	Could not identify/verify - inaccessible crawl space
	CDB Building #	B4031 – Pine Hall
Material	Quantity	Notes
TSI*	6,500LF	None
Flash Tank Insulation	150 SF	None
Insulation on Ventilation Duct	700 SF	None
Plack Mastic with Flooring	38,054 SF	Multiple flooring has been removed and replaced, but asbestos containing black n
Black Mastic with Flooring		is still present
Fire Door	22 each	None
	CDB Building # BB006 -	Water Treatment Plant #6
Material	Quantity	Notes
Metal Fire Doors	1 each	Could not verify but likely door to electrical room
Built-up Roof	4,600 SF	None
Insulation Material on Exhaust Backdraft Damper	10 SF	None
Mortar and Brick Base	200 SF	Associated with Boiler in Basement
Boiler Gasket Insulation Rope	15 LF	None
Cementitious Material	NA	Could not identify/verify
TSI*	600 LF	None
Exterior Window Caulk	400 LF	None
Interior Window Glaze	1,900 LF	None
Boiler Flue Insulation	30 SF (visible)	None
Lead-Based Paint	600 SF**	Exterior white walls
	•	



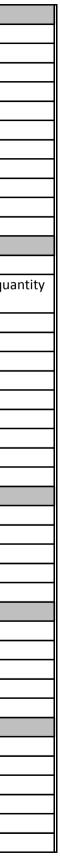
	CDB Building # BB0	08 – Power Plant #8
Material	Quantity	Notes
TSI*	4,200 LF	Throughout building - various pipe runs and joints (all non fiberglass)
Boiler Insulation	9,200 SF	Boiler #1 and #2
Flue Insulation	590 SF	None
Flue Insulation #2	1,250 SF	None
Cementitious Fitting on Electrical Conduit	50 LF	None
Cementitious Insulation on Holding Tank	170 SF	None
Cementitious Insulation on Hot Water Tank #1 and #2	960 SF	None
Cementitous Insulation on Conditioning Tank #1 and #1	480 SF	One tank is no longer wrapped and the other is wrapped in dark blue insulation w appears to be fiberglass
Cementitous Insulation on Oil Heating Converter	100 SF	None
Feed Water Tank (TSI)	450 SF	None
Exhaust Backdraft Damper Insulation	15 each	None
Boiler Gaskets	15 each	None
Asbestos Stockpile	10 SF	None
Lead-Based Paint	1,500 SF**	Gray on boilers and white exterior walls
	CDB Building # BB	020 – Oak Hall #20
Material	Quantity	Notes
TSI*	6,000 LF	None
Duct Insulation	195 SF	None
Booster Pump Insulation	500 SF	None
12" X 12" Vinyl Floor Tile and Mastic (non-white)	1,980 SF	None
Fire Door - Wood	2 each	None
Fire Door - Metal	12 each	None
Vibration Damper Insulation	8 SF	None
Fire Damper Insulation	3 SF	None
Exhaust Backdraft Damper	32 each	None
Transite Pipe	16 LF	None
	CDB Building # BB02	21 – Hickory Hall #21
Material	Quantity	Notes
TSI*	1,975 LF	None
Boiler Tank Insulation	50 SF	None
Vinyl Floor Sheeting and Mastic	4,235 SF	None
9" X 9" Floor Tile and Mastic	8,300 SF	None
1' X 1' Floor Tile and Mastic	11,200 SF	None
Built-up Roof and flashing	10,700 SF	None
Metal Fire Doors	14 each	None
Cementitious Backdraft damper insulation	10 each	None
Fire Damper Insulation	5 each	None
Carpet Mastic	17,800 SF	None
Mastic Under Rubberized Stair Tread	500 SF	None



	CDB Building # BB022 – Sycamore Hall #22				
Material	Quantity	Notes			
TSI*	1,200 LF	None			
Booster Pump Insulation	12 SF	None			
9" X 9" Floor Tile and Mastic	3,900 SF	None			
1' X 2' Floor Tile and Mastic	100 SF	None			
1' X 1' Floor Tile and Mastic	9,566 SF	None			
Fire Door - Wood	9 each	None			
Fire Door - Metal	11 each	None			
Exterior Window Caulking	2,472 LF	None			
Exterior Window Glaze	4,000 LF	None			
Interior Window Glaze	4,000 LF	None			
Mastic Under Vinyl Floor	216 SF	None			
	CDB Building # BB025	– Garage Building #25			
Material	Quantity	Notes			
TSI*	1,950 LF	None			
9" X 9" Floor Tile and Mastic	120 SF	None			
Fire Damper Insulation	150 each	None			
Metal Fire Doors	1 each	None			
Insulation on Exhaust Backdraft Dampers	2 each	None			
Window Caulking	300 LF	None			
Roofing Material Felt and Flashing	16,950 SF	None			
Lead-Based Paint	50 SF**	Blue garage door and green door frame			
	CDB Building # BB0	26 – Maple Hall #26			
Material	Quantity	Notes			
	1,718 LF	Throughout on various pipe sizes (elbows and runs). This quantity is listed on the			
TSI*		previous survey; very little was accessible and most appears to be fiberglass except for			
		the joints.			
Cementitious Insulation on Ducts	500 SF	None			
Cementitious Material on Booster Pump	128 SF	None			
Rope Insulation around Access Panel	3 LF	None			
9" X 9" Floor Tile and Mastic	59, 393 SF	None			
1' X 1' Floor Tile and Mastic	4,474 SF	None			
Fire Door - Wood	1	None			
Fire Door - Metal	60	None			
Vibration Damper Insulation	8 SF	None			
Fire Damper Insulation	2 SF	None			
Exhaust Backdraft Damper	18 each	None			
Carpet and Mastic Door	NA	Could not identify/verify			
Transite Duct under Door	NA	Could not identify/verify			
Transite Louvars	NA	Could not identify/verify			

CDB Building # BB027 – Administration Building #27				
Material	Quantity	Notes		
TSI*	400 LF	None		
Tank Insulation	260 SF	None		
9" X 9" Floor Tile and Mastic	15,158 SF	Within some carpeted areas, the 9" X 9" floor tile has been removed but the mastic remains.		
1' X 1' Floor Tile and Mastic	750 SF	None		
Fire Door - Metal	7	None		
Transite Siding around Cooling Tower	300 SF	None		
Insulation on Fire Dampers	50 each	None		
Liner Inside Cooling Tanks	NA	Could not identify/verify		
	CDB Building # BB02			
Material	Quantity	Notes		
Sprayed-on Plaster Ceiling	1,000 SF	None		
9" X 9" Vinyl Floor Tile and Mastic	2,700 SF	None		
Vinyl Sheet Good with Mastic	2,971 SF	None		
Fire Doors - Metal	33	None		
Fire Damper Insulation	124 SF	None		
Exhaust Backdraft Damper	352 each	None		
Vibration Damper Insulation	96 SF	None		
Cementitious Insulation on Conversion Tank	100 SF	None		
TSI*	1,400 LF	None		
	CDB Building # BB029	– Mimosa Hall #29		
Material	Quantity	Notes		
	3,000 LF	Throughout various pipe sizes. Main level above the ceiling hot and cold water lines		
TSI*		are wrapped, but due to limited access, could not verify how much of this material is		
		fiberglass and how much is ACM		
9" X 9" Floor Tile and Mastic	1,590 SF	None		
1' X 1' Floor Tile and Mastic	2,704 SF	None		
Fire Door - Wood	7	None		
Fire Door - Metal	7	None		
Mastic under Wood Floor	4,500 SF - Gym 792 SF - Auditorium Stage	None		
Carpet Mastic over Vinyl Tile	2,679 SF	None		
Fire Damper Insulation	32 SF	None		
Exhaust Backdraft Damper Insulation	96 each	None		
Canvas Vibration Damper	16 SF	None		
Transite on Cooling Tower	350 SF	None		

	CDB Building # BB030	– Gen Mech Store/Shop #30
Material	Quantity	Notes
TSI*	1,200 LF	None
9" X 9" Floor Tile and Mastic	2,352 SF	None
1' X 1' Floor Tile and Mastic	50 SF	None
Cooler Door Insulation	150 SF	None
Exhaust Backdraft Damper Insulation	15 each	None
Insulation inside fire damper access panel	5 SF	None
Mastic Sealant around Conduit	10 SF	None
Metal Fire Doors	2	None
Asbestos Stockpile	NA	Could not identify/verify
Lead-Based Paint	NA**	All material was in good condition
	CDB Building # B	B032 – Cedar Hall #32
Material	Quantity	Notes
TSI*	888 LF	Mechanical room in basement is inaccessible due to flooding; therefore, the quar
131	000 LF	estimate is based on 1994 Fox OM Plan
1' X 1' Floor Tile and Mastic	352 SF	None
9" X 9" Floor Tile and Mastic	2,560 SF	None
Sheet Goods with Mastic	18,738 SF	None
Fire Doors - Metal	8	None
Built-up Roofing	4,900 SF	None
Mastic under Wood Floor	3,750 SF	None
Fire Damper Insulation	4 SF	None
Exhaust Backdraft Damper Insulation	8 each	None
Lead-Based Paint	25 SF	Orange door/door frame
	CDB Building # B4114	4 – Cottage #1 Building #24
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	2,600 SF	None
Metal Fire Doors	6 each	None
Fire Damper Insulation	30 each	None
Exhaust Backdraft Damper Insulation	10 each	None
	CDB Building # B4214	4 – Cottage #2 Building #44
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	2,600 SF	None
Metal Fire Doors	6 each	None
Fire Damper Insulation	30 each	None
Exhaust Backdraft Damper Insulation	10 each	None
	CDB Building # B4314	4 – Cottage #3 Building #45
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	2,600 SF	None
Metal Fire Doors	6 each	None
Fire Damper Insulation	30 each	None
Exhaust Backdraft Damper Insulation	10 each	None
Lead-Based Paint	NA**	All material was in good condition



	CDB Building # B4414 – Cottage #4 Building #42				
Material	Quantity	Notes			
1' X 1' Floor Tile and Mastic	2,600 SF	None			
Metal Fire Doors	6 each	None			
Fire Damper Insulation	30 each	None			
Exhaust Backdraft Damper Insulation	10 each	None			
	CDB Building # B4514 – C	ottage #5 Building #43			
Material	Quantity	Notes			
1' X 1' Floor Tile and Mastic	2,600 SF	None			
Metal Fire Doors	6 each	None			
Fire Damper Insulation	30 each	None			
Exhaust Backdraft Damper Insulation	10 each	None			
	CDB Building # B4614 – C	ottage #6 Building #40			
Material	Quantity	Notes			
1' X 1' Floor Tile and Mastic	2,600 SF	None			
Metal Fire Doors	6 each	None			
Fire Damper Insulation	30 each	None			
Exhaust Backdraft Damper Insulation	10 each	None			
	CDB Building # B4714 – C	ottage #7 Building #41			
Material	Quantity	Notes			
1' X 1' Floor Tile and Mastic	2,600 SF	None			
Metal Fire Doors	6 each	None			
Fire Damper Insulation	30 each	None			
Exhaust Backdraft Damper Insulation	10 each	None			
	Building -	Tunnel			
Material	Quantity	Notes			
TSI*	18,400 LF	Various pipe sizes throughout. Tunnel running from Sycamore Hall toward the west appears to be fiberglass with only TSI joints; flooding prevented full access to this section of the tunnel. Other sections of the tunnel were also flooded, preventing access.			

# Notes:

ACM - Asbestos Containing Material

LBP - Lead Based Paint

CBD - Capital Development Board

LF - Linear Feet

OM Plan - Operations and Maintenace plan developed by Fox and Fox Architects in 1994

SF - Square Feet

TSI - Thermal systems insulation (pipe runs and joints)

\* - OM Plans refence a multitude of TSI (as shown in the body of this report). In order to simplify the quantification, all types and pipe diameters of TSI (pipe runs and joints) were added together for a total LF per building. This, however, does not include TSI on tanks and ventilation ducting because reported in SF. For purposes of calculating the linear footage of a joint, 1 joint equals 1 LF.

these quantities are

\*\* - Only damaged areas of LBP were quantified.