



**2015 AHERA THREE-YEAR
RE-INSPECTION REPORT FOR THE
DERBY PUBLIC SCHOOLS**

Prepared for

Derby Board of Education
Derby, Connecticut

Prepared by

TRC Environmental Corporation
Windsor, Connecticut

August 2015



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I. INTRODUCTION

TRC Environmental Corporation (TRC) was retained by the Derby Board of Education to conduct a three year re-inspection of four (4) buildings owned and operated by the Derby Public School System in accordance with the United States Environmental Protection Agency's (USEPA) Asbestos Hazard Emergency Response Act (AHERA) regulations (40 CFR 763, *Asbestos-Containing Materials in Schools Rule*). All of the subject buildings are currently occupied and utilized for the purposes of the Derby Public Schools. The following is a list of the buildings and their addresses, which are included in this report:

Derby High School, 8 Nutmeg Avenue

Irving School, 9 Garden Place

Bradley School, 155 David Humphrey's Road

Board of Education, 35 Fifth Street

TRC conducted the re-inspection of the designated buildings utilizing an asbestos inspector accredited by the USEPA and State of Connecticut Department of Public Health (CTDPH). The responsibilities of the building inspector included: the visual re-inspection and re-assessment of the condition of all known or assumed friable asbestos-containing building materials (ACBM); the visual inspection of previously considered non-friable ACBM and the physical assessment through material handling in order to determine if the material had become friable since the last inspection; and the identification and assessment of suspect ACBM not previously noted during previous inspections.

All accessible interior areas of each designated building, covered walkways and roof top mechanical rooms were inspected in order to fulfill these responsibilities. However, inaccessible building areas including, but not limited to, permanent wall and ceiling spaces, pipe chases, and interior mechanical units were not surveyed and have been assumed by TRC to contain asbestos. TRC recommends that the inaccessible interior areas be assessed by an accredited asbestos inspector prior to renovation/demolition activities in order to prevent the disturbance of potential ACBM.

As recommended by the USEPA, the TRC inspector accounted for suspect ACBM which was not previously noted in the earlier inspections and/or the revised asbestos management plan (AMP) created for each specific building. In accordance with AHERA guidelines, the materials were either assumed to contain asbestos or a required number of bulk samples were collected and analyzed to determine the asbestos content.

In accordance with the State of Connecticut regulations, 19a-333-3b, TRC submitted the notification of the Three-Year Re-inspection Report to the CTDPH. The notification includes information regarding the buildings inspected as well as the names, signatures and accreditations of the Inspector, Management Planner, and Local Education Agency (LEA) Designated Person. A copy of the original submittal to the CTDPH is included in this report as **Appendix A**. Floor plan sketches showing asbestos locations for some schools are included in **Appendix B**.

As a result of the re-inspection, TRC formulated response actions to be used to update the current Operations and Maintenance (O&M) Program for asbestos-containing building materials established for the Derby Board of Education. TRC's three-year re-inspection report shall be included with each current copy of the AMP developed for each school or facility. TRC recommends that a letter detailing the availability of the updated plan be sent to interested parties including, but not limited to, school principals, parent teacher organizations, and in the case of leased buildings, building tenants.

II. OBSERVATIONS AND FINDINGS

Following an asbestos investigation of the Derby Public Schools and associated buildings, an AMP was originally drafted and submitted in 1990 to the State of Connecticut by George B. Elliott of the Institute for Environmental Education (IEE) of Woburn, Massachusetts. A subsequent three-year re-inspection was conducted in 1993 by IEE. In 1996 and 1999, A. David Lynch of Connecticut Valley Technical Services, Inc. conducted the three-year re-inspections. TRC conducted AHERA re-inspections in 2004, 2008 and 2011 at the High School, Irving Elementary School and Bradley Elementary School. The Middle School is now located in a new building on Nutmeg Avenue. No ACM was used in the construction of the New Middle School. The Board of Education Building had not been included in the earlier AHERA Inspections. TRC conducted the initial inspection of the Board of Education Building in September 2010 as well as a reinspection in 2011. TRC has incorporated the findings of the original inspection and subsequent re-inspection in this report. The following sections detail the findings of the 2015 three year AHERA re-inspection conducted by TRC for the Derby Board of Education. The BOE notified TRC at time of reinspection that the roofs on Derby High School, Irving Elementary School, and Bradley Elementary School had been replaced.

1.0 Derby High School

Derby High School was constructed in 1968 with an automobile garage addition constructed in 1978. The Middle School is no longer included with the High School and is currently located in a new building on the same campus that was constructed in 2009 and is asbestos free. The present High School building consists of classrooms, library, gymnasium, kitchen/cafeterias, administrative office areas, and vocational facilities. The reinspection of the High School was conducted by Kelly Grey (CT Inspector License Number 000904) on August 25, 2015.

1.1 Summary of Findings and Assessments

The current AMP for Derby High School addresses types of asbestos-containing building materials (ACBM) in the form of: 9"x9"green with white streak floor tile with associated mastic (FT1), 12"x12 gray with dark streak floor tile with associated mastic (FT2), mudded pipe fitting insulation, ceramic floor tile glue (G1), ceramic wall tile glue (G2), glue under wood flooring (G3), black board glue daubs, sink undercoating, gray cove base with associated mastic (CB2), and laboratory table tops. Asbestos-containing materials (ACM) located at the exterior of the school building are outside the scope of the AHERA program. TRC identified these exterior ACM in the form of inner window caulk (C3). The following sections address the locations and material conditions of each ACBM noted.

1.1.1 Resilient Floor Tile and Associated Mastic

Accessible 9" x 9" resilient floor tile (FT1) and 12" x 12" resilient floor tile (FT2) and its associated mastic types appear to be in fair to good condition throughout the building except in the north and south end corridors and several classrooms on the lower level, and in the north end corridor on the upper level. These areas have loose or missing floor tile that is presently covered with carpeting as an interim control plan until the material can be abated. Removal of floor tile with mastic was conducted in 2004 and 2005. FT1 was sampled by TRC and found to contain 2% chrysotile asbestos. FT2 was sampled by TRC and found to contain no asbestos. However the mastic for both FT1 and FT2 were found to contain 10% chrysotile asbestos.

1.1.2 Mudded Fitting Insulation

Mudded fitting insulation associated with fiberglass pipe insulation was observed in good condition throughout the school building above accessible ceiling areas. The mudded fittings were sampled by TRC and found to contain 10% chrysotile asbestos.

1.1.3 Ceramic Floor Tile Glue

Ceramic floor tile glue is presumed to be present in restrooms and locker rooms within the building. This material is inaccessible beneath the ceramic tile and considered to remain in good condition. The material was not included in the previous school inspection reports.

1.1.4 Ceramic Wall Tile Glue

Ceramic wall tile glue is presumed to be present in restrooms and locker rooms within the building. This material is inaccessible beneath the ceramic tile and considered to remain in good condition. This material was not included in the previous school inspection reports.

1.1.5 Glue Under Wood Flooring

Glue was identified in good condition beneath the wood floor of the main level Wood Shop. The glue was sampled by TRC and was found to contain 10% chrysotile asbestos. This material was not included in the previous school inspection reports.

1.1.6 Blackboard Material and Glue Daubs behind Blackboards

Blackboard material and associated glue daubs located throughout the school have been assumed to contain asbestos. The ACM was observed in good condition with no signs of damage noted. These materials were not included in the previous school inspection reports.

1.1.7 Sink Undercoating

Both gray and white sink undercoating materials were identified throughout the school and have been assumed to contain asbestos. The ACM was observed in good condition with no signs of damage noted. These materials were not included in the previous school inspection reports.

1.1.8 Gray Cove Base with Associated Mastic

Small quantities of gray cove base with associated mastic were identified in good condition at the main level of the school and were assumed to contain asbestos. These materials were not included in the previous school inspection reports.

1.1.9 Black Bench Tops

This material was found in the science classrooms in the lower level and has been assumed to contain asbestos. The ACM was observed in good condition with no signs of damage noted. This material was not included in the previous school inspection reports.

1.1.10 Inner Window Caulk

This material was found on the inner side at exterior window systems through the school. The ACM was observed in good condition with no signs of damage noted. The caulk was sampled

by TRC and found to contain 3.62% chrysotile asbestos. This material was not included in the previous school inspection reports.

1.1.11 Transite Panels

This material was found at the exterior soffits along the perimeter of the school. The ACM was observed in fair condition with some signs of damage noted. The transite was sampled by TRC and found to contain 20% chrysotile asbestos. This material was not included in the previous school inspection reports. The BOE notified TRC at time of reinspection that the roof, including exterior soffits, on Derby High School had been replaced.

1.1.12 Roof Flashing/Tar Sealants

These materials were found at the school roofs along the perimeter and at roof penetrations. The ACM was observed in good condition with no signs of damage noted. These materials were not included in the previous school inspection reports. The BOE notified TRC at time of reinspection that the roof on Derby High School, including roof flashing and tar sealant, had been replaced.

1.2 Confirmed Non-ACBM

The performance of a proper material bulk sampling program in accordance with current AHERA guidelines has documented the absence of asbestos in the following building materials:

- 2' x 4' worm hole pattern ceiling tile (CT1)
- 2' x 4' birds feet pattern ceiling tile (CT2)
- Black cove base with associated mastic (CB1)
- Interior window caulk (C1) at main level stairwell
- Sheetrock with associated joint compound
- Large black cove base with associated mastic (CB3)
- Carpet glue (G4)
- Textured ceiling coating (TC)
- 12"x12" gray with dark streak floor tile (note: mastic is ACBM)
- Exterior window caulking (outer) (C2)
- Exterior window glazing (WG1)

1.3 Additional Bulk Samples Collected

Prior to the 2004 re-inspection, all suspect materials were identified as presumed asbestos-containing materials (PACM). During the 2008 re-inspection, TRC collected samples of 9"x9" green with white streak floor tile with associated mastic (FT1), worm hole pattern ceiling tile (CT1), black cove base with associate mastic (CB1), birds feet pattern ceiling tile (CT2), interior window caulk (C1), sheetrock with associated joint compound, large black cove base with associated mastic (CB3), carpet glue (G4), textured ceiling coating (TC), 12"x12" gray with dark streak floor tile with associated mastic (FT2), mudded pipe fittings, glue under wood flooring (G3), exterior window caulk at outer side (C2), exterior window caulk at inner side (C3), exterior window glazing (WG1), transite panels, and roof flashing materials. Bulk samples were not collected during the 2011 or 2015 reinspections.

1.4 History of Response Actions

On TRC review of supporting documentation and compliance reports on file with the Derby Board of Education, response actions have been recorded for the ACBM noted at the Derby High School/Middle School in 2004 and 2005.

1.5 Inventory and Classifications of ACBM

Refer to **Table II-1** for an inventory of the ACBM identified at the Derby High School/Middle School and material classifications using current USEPA AHERA guidelines. Any changes from the 1996 AMP in regards to the condition of the ACBM were noted and the material reclassified accordingly. Refer to **Section III** of this report for ACBM hazard assessments and TRC's recommended control responses.

TABLE II-1
2015 AHERA REINSPECTION OF
HIGH SCHOOL
INVENTORY AND CLASSIFICATIONS OF ACBM

Location	ACBM	Assumed/ Sampled	Category*	Area	Friable	AHERA Assessment Category	Change in 2011 Reinspection
Throughout	9"x9" green w/ white streak floor tile with associated mastic (FT1)	4/21/04	Misc.	79,503 SF	No	Damaged Note: multiple areas of exposed residual black mastic: janitor closet across from Rm. 103 (25 SF), Rm. 127 (3 SF) lower level electrical room next to G2 (4 SF), G-01 – rear room (3 SF), Rm. 132-office (4 SF), PTO closet next to auditorium (12 SF-loose tiles also), Custodial/Electrical 5 in boy's locker room (140 SF), storage room next to boy's locker room (250 SF), electrical 7-off room 124 (15 SF), girls locker room storage (240 SF), weight room off gym (2.5 SF), computer office 119A (1.5 SF), ~3 SF Loose tile w/exposed mastic in Rm 101, ~5 SF Exposed mastic o/s Music Rm	~3 SF Loose tile w/exposed mastic in Rm 101 ~5 SF Exposed mastic in Rm 109 Doorway ~5 SF Exposed mastic o/s Music Rm ~10 SF Loose tile w/ exposed mastic in Rm 113, 0.5 SF Vault (office), 0.5 SF exposed mastic in Rm 117 mastic in Rm 117
Guidance Office –main level	12"x12" gray w/dark streak floor tile with associated mastic (FT2)	4/21/04	Misc.	1,200 SF	No	ACBM with a potential for significant damage	No
Electrical 7 (off Room 124)	Pipe fitting insulation	4/21/04	TSI	2 SF	Yes	Damaged Note: 1 defective mudded fitting	No
Music Room	Pipe fitting insulation	4/21/04	TSI	850 SF	Yes	ACBM with a potential for significant damage	No
Music Room	Acoustical ceiling plaster	8/4/11	Surfacing	1000 SF	Yes	Damaged Note: multiple nicks & exposed edges above drop ceiling	No
Hallway (north entrance)	Pipe fitting insulation	4/21/04	TSI	6 SF	Yes	ACBM with a potential for significant damage	No
Hallway (adjacent to administration)	Pipe fitting insulation	4/21/04	TSI	7 SF	Yes	ACBM with a potential for significant damage	No
Hallway (near electrical room G-2)	Pipe fitting insulation	4/21/04	TSI	8 SF	Yes	ACBM with a potential for significant damage	No
Hallway (entry to G-01)	Pipe fitting insulation	4/21/04	TSI	13 SF	Yes	ACBM with a potential for significant damage	No

Location	ACBM	Assumed/ Sampled	Category*	Area	Friable	AHERA Assessment Category	Change in 2011 Reinspection
Room G-01	Pipe fitting insulation	4/21/04	TSI	5 SF	Yes	ACBM with a potential for significant damage	No
Hallway (Science)	Pipe fitting insulation	4/21/04	TSI	9 SF	Yes	ACBM with a potential for significant damage	No
Room G-5	Pipe fitting insulation	4/21/04	TSI	12 SF	Yes	ACBM with a potential for significant damage	No
Hallway (rear exit)	Pipe fitting insulation	4/21/04	TSI	5 SF	Yes	ACBM with a potential for significant damage	No
Hallway (Bus & Main)	Pipe fitting insulation	4/21/04	TSI	5 SF	Yes	ACBM with a potential for significant damage	No
Hallway (near G-07)	Pipe fitting insulation	4/21/04	TSI	11 SF	Yes	ACBM with a potential for significant damage	No
Electrical Room	Pipe fitting insulation	4/21/04	TSI	9 SF	Yes	ACBM with a potential for significant damage	No
Storage Room	Pipe fitting insulation	4/21/04	TSI	12 SF	Yes	ACBM with a potential for significant damage	No
Cafeteria Hallway	Pipe fitting insulation	4/21/04	TSI	19 SF	Yes	ACBM with a potential for significant damage	No
Cafeteria	Pipe fitting insulation	4/21/04	TSI	12 SF	Yes	ACBM with a potential for significant damage	No
Girls Hot Water Tank	Pipe fitting insulation	4/21/04	TSI	9 SF	Yes	ACBM with a potential for significant damage	No
Throughout	9"x9" green w/ white streak floor tile with associated mastic (FT1)	4/21/04	Misc.	87,397 SF	No	ACBM with a potential for significant damage	Yes
Guidance Office – main level	12"x12" gray w/dark streak floor tile with associated mastic (FT2)	4/21/04	Misc.	1,200 SF	No	ACBM with a potential for significant damage	No
Restrooms – throughout, Kitchen	Ceramic floor tile glue (G1)	Assumed	Misc.	800 SF	No	ACBM with a potential for damage	No
Restrooms – throughout, Kitchen	Ceramic wall tile glue (G2)	Assumed	Misc.	800 SF	No	Damaged Note: 48 SF is defective in the lower level women's bathroom, 24 SF in the kitchen, 25 SF in lower level boy's bathroom & 7 SF in custodial closet next to lower level boy's bathroom.	No
Wood Shop – main level	Glue under wood flooring (G3)	Assumed	Misc.	~2,000 SF	No	Damaged Note: 4 areas (~40.5 SF total) with exposed glue/vapor barrier	No.
Classrooms	Blackboard glue daubs	Assumed	Misc.	~8,000 SF	No	ACBM with a potential for damage	No
School Sinks – throughout	Sink undercoating	Assumed	Misc.	~100 SF	No	ACBM with a potential for damage	No

Location	ACBM	Assumed/ Sampled	Category*	Area	Friable	AHERA Assessment Category	Change in 2011 Reinspection
Main Level – lower walls	Gray cove base with associated mastic (B2)	Assumed	Misc.	~500 LF	No	ACBM with a potential for damage	No
Science Classrooms – lower level	Laboratory table tops	Assumed	Misc.	~1,000 SF	No	ACBM with a potential for damage	No
Room G-02	Transite hood	Assumed	Misc.	40 SF	No	ACBM with a potential for damage	No
Main entrance (near gym/auditorium)-entry area, Stage storage, interior loading dock	Transite ceiling panels	Assumed	Misc.	1000 SF	No	ACBM with a potential for damage	No
Exterior – window systems	Caulk at inner side of windows (C3)	Assumed	Misc.	30 windows	No	ACM with a potential for damage	No
Stage lighting	Wiring insulation	Assumed	Misc.	~20 LF	Yes	ACM with a potential for damage	No
Homemaking Rm 127	Mudded pipe fitting	4/21/04	TSI	~1 SF	Yes	Damaged	No

2.0 Irving Elementary School

The Irving Elementary School is a two-story brick building constructed circa 1953 with an addition constructed in 1994. The building contains classroom areas, gymnasium, library, kitchen/cafeteria, auditorium/stage and administrative office areas. The building is heated by recirculating hot water generated by boilers located within the basement area. The reinspection of the Irving Elementary School was conducted by Kelly Grey (CT Inspector License Number 000904) on August 24, 2015.

2.1 Summary of Findings and Assessments

The current AMP for the Irving Elementary School addresses types of ACBM including: pipe insulation, acoustical ceiling plaster, 9"x9" brown floor tile with associated mastic (FT3), 9"x9" gray floor tile with associated mastic (FT4), 9"x9" red marble floor tile with associated mastic (FT5a), 9"x9" brown marble floor tile with associated mastic (FT5b), 9"x9" green floor tile with associated mastic (FT6), 9"x9" gray with blue streaks floor tile with associated mastic (FT7), blue cove base with associated mastic (CB1), tan cove base with associated mastic (CB2), large brown cove base with associated mastic (CB3), black cove base with associated mastic (CB4), ceramic floor tile glue (G1), rubber stair tread glue (G2), ceramic floor tile glue (G4), black board glue daubs, vapor barrier at ceiling grids, and sink undercoating. ACM located at the exterior of the school building are outside the scope of the AHERA program. TRC identified these exterior ACM in the form(s) of exterior window caulk (C1). The following sections address the locations and material conditions of each ACBM noted.

2.1.1 Aircell Pipe Insulation and Mudded Fitting Insulation

Aircell pipe insulation with mudded fittings is located throughout the original building and is accessible in the basement, tunnels, and storage areas. The pipe insulation is assumed to be asbestos and was found to be in good condition with no signs of damage noted except a storage area under the stage, in the custodian closet, and in the electrical closet where impact damage was identified.

2.1.2 Resilient Floor Tile and Associated Mastic

The 9" x 9" resilient floor tile with associated mastic which were found throughout the school generally appeared to be in good condition with no major signs of damage noted. TRC has sampled a variety of floor tile with associated mastics located throughout the school and has found that 9"x9" floor tile contain varying amounts of chrysotile asbestos. The 12"x12" floor tile with associated are not ACBM.

2.1.3 Acoustical Ceiling Plaster

Acoustical ceiling plaster has been troweled-on all deck areas of the original school building. This surfacing material generally appeared to be in good condition with no major signs of damage noted. The ceiling plaster was sampled by TRC and was found to contain 5% chrysotile asbestos. This material was not included in the previous school inspection reports.

2.1.4 Ceramic Floor Tile Glue

Ceramic floor tile glue is presumed to be present in restrooms and locker rooms within the building. The material is inaccessible beneath the ceramic tile and is considered to remain in good condition. This material was not included in the previous school inspection reports.

2.1.5 Ceramic Wall Tile Glue

Ceramic wall tile glue is presumed to be present in restrooms and locker rooms within the building. The material is inaccessible beneath the ceramic tile and is considered to remain in good condition. This material was not included in the previous school inspection reports.

2.1.6 Rubber Stair Tread Glue

Rubber stair tread glue is presumed to be present in stairwells within the building. The glue is inaccessible beneath the stair treads and is considered to remain in good condition. This material was not included in the previous school inspection reports.

2.1.7 Blackboard Material and Glue Daubs behind Blackboards

Blackboard material and associated glue daubs located throughout the school have been assumed to contain asbestos. The ACBM was observed in good condition with no signs of damage noted. These materials were not included in the previous school inspection reports.

2.1.8 Vapor Barrier behind Metal Ceiling Grid

Vapor barrier was identified in the original section of the school in the second floor level classrooms and has been assumed to contain asbestos. The ACBM was observed in good condition with no signs of damage noted. This material was not included in the previous school inspection reports.

2.1.9 Sink Undercoating

Sink undercoating material was identified throughout the school and has been assumed to contain asbestos. The ACBM was observed in good condition with no signs of damage noted. This material was not included in the previous school inspection reports.

2.1.10 Window Caulk

This material was found at exterior window systems throughout the older part of the school. The ACM was observed in good condition with no signs of damage noted. The caulk was sampled by TRC and found to contain 10% chrysotile asbestos. This material was not included in the previous school inspection reports.

2.1.11 Roof Flashing/Tar Sealants

These materials were found at the school roofs along the perimeter and at roof penetrations. The ACM was observed in good condition with no signs of damage noted. These materials were not included in the previous school inspection reports. The BOE notified TRC at time of reinspection that the roof on Irving Elementary School, including roof flashing and tar sealant, had been replaced.

2.2 Confirmed Non-ACBM

The performance of a proper material bulk sampling program in accordance with current AHERA guidelines has documented the absence of asbestos in the following building materials:

- Ceiling and wall plaster
- Sheetrock with associated joint compound
- 2' x 4' suspended ceiling tiles (1924)
- 2' x 2' suspended ceiling tiles (1970)
- 12"x12" Blue Streak Floor Tile with associated mastic
- Blue cove base with associated mastic (CB1)
- Tan cove base with associated mastic (CB2)
- Large brown cove base with associated mastic (CB3)
- Black cove base with associated mastic (CB4)
- Yellow carpet glue (G5)
- Exterior window glazing (GZ1)

2.3 Additional Bulk Samples Collected

Prior to the 2004 re-inspection, all suspect materials were identified as presumed asbestos-containing materials (PACM). During the 2008 re-inspection, TRC collected samples of 12"x12" blue streak floor tile with associated mastic (FT1), tan cove base with associated mastic (CB2), 2'x4' birds feet pattern ceiling tile (CT1), sheetrock with associated joint compound, 2'x4' worm hole pattern ceiling tile (CT2), large brown cove base with associated mastic (CB3), 12"x12" tan with multi colored streaks floor tile with associated mastic (FT2), acoustical ceiling plaster, coating on fiberglass breaching insulation, blue cove base with associated mastic (CB1), 9"x9" brown floor tile with associated mastic (FT3), 9"x9" gray floor tile with associated mastic (FT4), 9"x9" red marble floor tile with associated mastic (FT5a), 9"x9" brown marble floor tile with associated mastic (FT5b), large worm hole pattern ceiling tile (CT3), wall tile glue in phone booth (G3), black cove base with associated mastic (CB4), yellow carpet glue (G5), 9"x9" green with streaks floor tile with associated mastic (FT6), 9"x9" gray with blue streaks floor tile with associated mastic (FT7), exterior window glazing (GZ1), and exterior window caulk (C1). Bulk samples were not collected during the 2011 and 2015 reinspections.

2.4 History of Response Actions

On TRC review of supporting documentation and compliance reports on file with the Derby Board of Education, the following are recorded response actions for the ACBM noted at the Irving Elementary School:

1995 Removed 2'x4' acoustical ceiling tile from O&M Program per sampling on 5/1/95. Sample results were not identified by TRC and the materials were re-sampled by TRC and found to be non ACBM.

2005 Removed VAT/mastic from the 2nd floor corridor, from room 2 on the first floor, and from the gymnasium.

2005 Removed pipe insulation from pipe chases , the stage and basement.

2005 Removed window systems.

The BOE notified TRC at time of reinspection that the roof of Irving Elementary School had been replaced.

2.5 Inventory and Classifications of ACBM

Refer to **Table II-2** for an inventory of the ACBM known to exist at the Irving Elementary School material classifications using current USEPA AHERA guidelines. Any changes from the 1999 AMP in regards to the condition of the ACBM were noted and the material reclassified accordingly. Refer to **Section III** of this report for ACBM hazard assessments and TRC's recommended control responses.

TABLE II-2
2015 AHERA REINSPECTION OF
IRVING ELEMENTARY SCHOOL
INVENTORY AND CLASSIFICATIONS OF ACBM

Location	ACBM	Assumed/ Sampled	Category*	Area	Friable	AHERA Assessment Category	Change in 2011 Reinspection
Sink Storage	Pipe insulation	Assumed	TSI	190 SF	Yes	Damaged	Dip-lag missing or damaged; exposed edges of pipe insulation, storage items resting against insulation
Gas Meter/Electrical Room	Pipe insulation	Assumed	TSI	149 SF	Yes	Damaged	Dip-lag missing or defective; metal band broken on pipe by tunnel, insulation exposed/peeling
Stairwell-next to gas meter/electric room	Pipe insulation	Assumed	TSI	30 SF	Yes	ACBM with the potential for damage Note: Minor spots identified where insulation is beginning to peel.	No
Stage Loft	Pipe insulation	Assumed	TSI	190 SF	Yes	Damaged Note: 2.5 SF of debris (scattered over 12 SF) from valve end & pipe end at wall penetration	No
Stage - above paneling	Pipe insulation	Assumed	TSI	15 SF	Yes	ACBM with the potential for damage	No
Stage Storage	Pipe insulation	Assumed	TSI	12 SF	Yes	ACBM with the potential for damage	No
Above Stage Storage	Pipe insulation	Assumed	TSI	12 SF	Yes	Damaged Note: 1 SF of debris scattered over 15 SF	No
Stage Heating Unit	Pipe insulation	Assumed	TSI	44 SF	Yes	ACBM with the potential for damage	No
Tunnels	Pipe insulation	Assumed	TSI	1,548 SF	Yes	ACBM with the potential for damage	TSI uncovered at ends
Hallway (above ceiling)	Pipe insulation	Assumed	TSI	1,600 SF	Yes	ACBM with the potential for damage	No
Throughout 2 nd floor rooms and stage office	9"x9" floor tile with associated mastic	4/22/04	Misc.	56,500 SF	No	Damaged Note: 85 SF of residual black mastic in each of the 1 st & 2 nd floor closets next to the girls bathrooms. Minor cracks in tile in stage office.	1 Loose 9"x9" floor tile by teacher's desk (Rm 212)
Throughout	Acoustical ceiling plaster	4/22/04	Surfacing	57,250 SF	Yes	Damaged Note: 3 SF in the stairwell next to Grade 2 (Miss Landalfi) and multiple areas	No

Location	ACBM	Assumed/ Sampled	Category*	Area	Friable	AHERA Assessment Category	Change in 2011 Reinspection
Restrooms and Locker Rooms	Ceramic floor tile glue	Assumed	Misc.	800 SF	No	above ceiling tiles where acoustical ceiling plaster has been removed leaving exposed edges - including but not limited to - 2 nd floor hall between grade 2 & 6 (10 SF), 1 st floor hallway outside Grade 1, child resource center & hallway	No
Stairwells	Rubber stair tread glue	Assumed	Misc.	200 SF	No	ACBM with a low potential for damage	South Stairwell - 1 stair tread missing top -needs glue
Restrooms, Locker Rooms & Phone Booth	Ceramic wall tile glue	Assumed	Misc.	850 SF	No	Damaged Note: 2.5 SF in phone booth (next to cafeteria & gym)	No
Throughout	Blackboard material and glue daubs behind blackboards	Assumed	Misc.	4,000 SF	No	ACBM with a low potential for damage	No
Restrooms	Mirror glue daubs	Assumed	Misc.	100 SF	No	Damaged Note: 1 SF of residual glue daubs in women's bathroom 103	No
Second Floor - classrooms	Vapor barrier behind metal grid	Assumed	Misc.	2,000 SF	No	ACBM with a low potential for damage	No
Throughout	Sink undercoating	Assumed	Misc.	50 SF	No	ACBM with a low potential for damage	No

3.0 Bradley Elementary School

The Bradley Elementary School is a one-story brick building, which was constructed circa 1960. The building contains classroom areas, gymnasium, kitchen/cafeteria, auditorium/stage and administrative office areas. The building is heated by recirculating hot water generated by boiler units located in the basement area. The reinspection of the Bradley Elementary School was conducted by Kelly Grey (CT Inspector License Number 000904) on August 24, 2015.

3.1 Summary of Findings and Assessments

The current AMP for the Bradley Elementary School addresses ACBM including: HVAC flex connectors; mudded pipe fitting insulation on fiberglass insulated pipes; 9"x9" resilient floor tile and associated mastic (FT1, 3-5, 7-10, 12, 13); 12"x12" resilient floor tile and associated mastic (FT6, 14); glue under wood gym floor (G2); glue on pull out table tops (G3); ceramic tile wall glue (G4); ceramic floor tile glue (G5); blackboard and related glue daubs (G6); and mastic associated with gray cove base (CB1). Asbestos-containing materials (ACM) located at the exterior of the school building are outside the scope of the AHERA program. TRC identified these exterior ACM in the form(s) of front facing caulk (C2). The following sections address the locations and material conditions of each ACBM noted.

3.1.1 Mudded Pipe Fitting Insulation

Mudded pipe fitting insulation is located throughout the school on fiberglass insulated pipes. The majority of the mudded fitting insulation is located above the drop ceiling tiles of the corridor and classroom areas. In some of the hallways inspected, the mudded fitting insulation appeared to be damaged by impact sources and debris were found on top of the ceiling tiles.

3.1.2 HVAC Flex Connectors

Flex connectors are located in the gymnasium heating/cooling systems. The two (2) connectors appear to be in good shape with no damage noted. The flex connectors were sampled by TRC and were found to contain 30% chrysotile asbestos. This material was not included in the previous school inspection reports.

3.1.3 Resilient Floor Tile and Associated Mastic

The resilient floor tile and associated mastic located throughout the school generally appeared to be in good condition with no major signs of damage noted. The resilient floor tile was observed to be damaged and/or missing in some of the maintenance closets where equipment was stored. The floor tiles were sampled by TRC and were found to contain between 2-3% chrysotile asbestos.

3.1.4 Glue Under Wood Flooring

The glue under the wood flooring in the gymnasium has been assumed to contain asbestos. The floor appeared in good shape with no damage noted. This material was not included in the previous school inspection reports.

3.1.5 Glue Associated with Pull-out Table Tops

The glue under the pull-out table top material in the gymnasium has been assumed to contain asbestos. The table top material appeared in good shape with no damage noted. This material was not included in the previous school inspection reports.

3.1.6 Ceramic Wall Tile Glue

Ceramic wall tile glue is presumed to be present in restrooms within the building. This material appeared to be in good condition. This material was not included in the previous school inspection reports.

3.1.7 Ceramic Floor Tile Glue

Ceramic floor tile glue is also presumed to be present in restrooms within the building. This material appeared to be in good condition. This material was not included in the previous school inspection reports.

3.1.8 Blackboard Material and Glue Daubs behind the Blackboards

Blackboard material and associated glue daubs located throughout the school has been assumed to contain asbestos. The ACM was observed in good condition with no signs of damage noted. This material was not included in the previous school inspection reports.

3.1.9 Mastic Associated with Gray Cove Base (CB1)

Mastic on gray cove base is located throughout the school library. The cove base the mastic was adhered to seemed to be in good condition with no visible damage noted. This material was sampled by TRC and found to contain 34.08% chrysotile asbestos. This material was not included in the previous school inspection reports.

3.1.10 Front Facing Caulk

These materials are associated with the facing materials at the front entrance. The ACM was observed in good condition with no signs of damage noted. These materials were not included in the previous school inspection reports.

3.1.11 Roof Flashing/Tar Materials

These materials were found at the school roofs along the perimeter and at roof penetrations. The ACM was observed in good condition with no signs of damage noted. These materials were not included in the previous school inspection reports. The BOE notified TRC at time of reinspection that the roof on Bradley Elementary School, including roof flashing and tar sealant, had been replaced.

3.2 Confirmed Non-ACBM

The performance of a proper material bulk sampling program in accordance with current AHERA guidelines has documented the absence of asbestos in the following building materials:

- Carpet glue (G1)
- Gray cove base (CB1) (note: mastic is ACM)
- 1'x2' large worm hole pattern ceiling tile (CT1)

2x4 bird's feet pattern ceiling tile (CT2)
12"x12" White with gray streak floor tile (FT2) (note: mastic is ACBM)
Black cove base and associated mastic (CB2)
Swirl pattern linoleum table top (LIN1)
Wrapping on fiberglass lines
Magenta cove base and associated mastic (CB3)
Mastic associated with FT5 (note: the 9"x9" green with white streak floor tile is ACBM)
Sheetrock with associated joint compound
Plaster (skim and base coats)
2'x4' worm hole pattern ceiling tile (CT3)
Interior window caulking (C1)
Mastic associated with FT10 (note: the 9"x9" brown with multi-spec floor tile is ACBM)
12"x12" brown white streaks floor tile with associated mastic (FT11)
Mastic associated with FT13 (note: the 9"x9" green with spec floor tile is ACBM)
Exterior ceramic tile panel caulk

3.3 Additional Bulk Samples Collected

Prior to the 2004 re-inspection, all suspect materials were identified as presumed asbestos containing materials. During the 2008 re-inspection, TRC collected samples of HVAC flex connectors; Mudded pipe fitting insulation on fiberglass insulated pipes; 9"x9" resilient floor tile and associated mastic (FT1, 3-5, 7-10, 12, 13); 12"x12" resilient floor tile and associated mastic (FT2, 6, 11, 14); Glue under wood gym floor (G2); Glue on pull out table tops (G3); Ceramic tile wall glue (G4); Ceramic floor tile glue (G5); Blackboard and related glue daubs (G6); Carpet glue (G1); Gray cove base and associated mastic (CB1); 1'x2' large worm hole pattern ceiling tile (CT1); 2'x4' bird's feet pattern ceiling tile (CT2); Black cove base and associated mastic (CB2); Swirl pattern linoleum table top (LIN1); Wrapping on fiberglass lines; Magenta cove base and associated mastic (CB3); Sheetrock and associated joint compound; Plaster (skim and base coats); 2'x4' worm hole pattern ceiling tile (CT3); Interior window caulking (C1); Exterior front facing caulking (C2); and Exterior ceramic tile panel caulk (C3). Bulk samples were not collected during the 2011 and 2015 reinspections.

3.4 History of Response Actions

1996 All ACBM in the form of pipe insulation and fittings were removed and replaced with fiberglass insulation in the boiler room. A total of 410 SF of ACBM was removed.

2005 Removed VAT/mastic and cove base/mastic from corridor area.

2005 Removed gym floor with associated cork/mastic/felt.

The BOE notified TRC at time of reinspection that the roof on Bradley Elementary School had been replaced.

3.5 Inventory and Classifications of ACBM

Refer to **Table II-3** for an inventory of the ACBM known to exist at the Bradley Elementary School and material classifications using current USEPA AHERA guidelines. Any changes from the 1999 AMP in regards to the condition of the ACBM were noted and the material reclassified accordingly. Refer to **Section III** of this report for ACBM hazard assessments and TRC's recommended control responses.

**TABLE II-3
2015 AHERA RE-INSPECTION OF
BRADLEY ELEMENTARY SCHOOL
INVENTORY AND CLASSIFICATIONS OF ACBM**

Location	ACBM	Assumed/ Sampled	Category*	Area	Friable	AHERA Assessment Category	Change in 2011 Reinspection
Gymnasium	Pipe Fitting Insulation	4/23/04	TSI	36 SF	Yes	Damaged thermal system insulation	~3 SF Damaged Insulation
Stage	Pipe Fitting Insulation	4/23/04	TSI	25 SF	Yes	ACBM with a potential for significant damage	No
Hallways & Lobby	Pipe Fitting Insulation	4/23/04	TSI	150 SF	Yes	Damaged Note: ½ SF of MF debris on top of ceiling tiles: corridor 178-next to Rm 129, corridor 177-next to library (2 areas), corridor 176-next to Rm. 138 & 136, lobby, 173-outside toilet 149	No
Gymnasium	HVAC flexible duct connectors	4/23/04	TSI	100 SF	Yes	Damaged thermal system insulation	~3 SF Damaged duct connectors
Throughout	9"x9" resilient floor tile with associated mastic (FT1, 3-5, 7-10, 12, 13) – Note: the mastic associated with FT5, FT10, and FT13 is not ACBM	4/23/04	Misc.	6,500 SF	No	Damaged	No
Throughout	12"x12" resilient floor tile with associated mastic (FT2, 6, 14)	Assumed	Misc.	800 SF	No	ACBM with a potential for significant damage	No
Room 103	Floor tile with associated mastic	4/23/04	Misc.	~400 SF	No	ACBM with a potential for damage	No
Room 117	Floor tile with associated mastic	4/23/04	Misc.	~400 SF	No	ACBM with a potential for damage Note: ~20 SF of floor tile replaced in room 117	No
Gymnasium	Glue on pull-out table top material (G3)	Assumed	Misc.	90 SF	No	Damaged Note: 3.5 SF (total) is defective – showing exposed glue	No
Throughout restrooms	Ceramic tile wall glue (G4)	Assumed	Misc.	1,500 SF	No	Damaged Note: 2 SF of damage in girls bathroom (next to Rm 101)	No
Throughout restrooms	Ceramic floor tile glue (G5)	Assumed	Misc.	1,400 SF	No	ACBM with a potential for damage	No
Throughout classrooms	Blackboard material and related glue daubs (G6)	Assumed	Misc.	2,600 SF	No	ACBM with a potential for damage	No

Location	ACBM	Assumed/ Sampled	Category*	Area	Friable	AHERA Assessment Category	Change in 2011 Reinspection
Throughout library	Mastic associated with gray cove base (CB1)	4/23/04	Misc.	75 SF	No	Damaged Note: 16 LF of residual cove base mastic below radiator	No
Stage Vestibule (Room 165)	Cove base adhesive	4/23/04	Misc.	Unknown	No	4 LF of damaged (exposed) cove base adhesive	No
Exterior-front entrance	Front facing caulk (C2)	4/23/04	Misc.	150 SF	No	ACBM with a potential for damage	No
Room 119, 120 & 124	Sink undercoating	8/10/09 & 8/6/11	Misc.	~36 SF (4 E.A.)	Yes	ACBM with a potential for damage	No

4.0 Board of Education

Derby Board of Education (BOE) occupies portions of the building located on 35 Fifth Street. The scope of the investigation was to address the ACBM located within the BOE areas of the building. The BOE portion of the building consists of two floors, each with various offices, copy rooms, bathrooms, lobby and a break room. The reinspection of the Board of Education areas on 35 Fifth was conducted by Kelly Grey (CT Inspector License Number 000904) on August 24, 2015.

4.1 Summary of Findings and Assessments

The current AMP for the Board of Education Building addresses ACBM including: wood panel glue, various types of 9"x9" floor tile with associated mastic, carpet glue, various types of cove base with associated mastic, window glazing, window caulk, pipe insulation with mudded fittings (located within inaccessible areas) and glue daubs behind mirrors (suspect). Asbestos-containing materials (ACM) located at the exterior of the school building are outside the scope of the AHERA program. The following sections address the locations and material conditions of each ACBM noted.

4.1.1 Mudded Pipe Fitting Insulation

Wood panel glue is presumed to be present in the copy room and at the adjoining walls between Offices 7 and 8. This material is located behind wood panels and remains intact and in good condition. This material was assumed to be ACBM.

4.1.2 Resilient Floor Tile and Associated Mastic

The resilient floor tile and associated mastic located throughout the Board of Education generally appeared to be in good condition with no major signs of damage noted. The resilient floor tile was observed to be damaged and/or missing in some of the maintenance closets where equipment was stored. This material was assumed to be ACBM.

4.1.3 Carpet Glue

Carpet glue identified in the file room, copy room, Offices 1 through 11, Break Room, and Conference Rooms 1 and 2 has been assumed to contain asbestos. The material is under carpeting and appeared in good shape with no damage noted.

4.1.4 Cove Base with Associated Mastic

Cove base with associated mastic was identified in Vaults (1-3), Offices 1-12, Stage Room 2, the second floor lobby, Conference Room 2, Slop sink 2 and the Break Room. The cove base with associated mastic is in good condition with no visible damage noted. This material was assumed to be ACBM.

4.1.5 Window Glazing and Window Caulk

Window glazing and window caulk is located on window systems located throughout the Board of Education. The materials appear in good condition with no visible damage. These materials were assumed to be ACBM.

4.1.6 Pipe Insulation and Mudded Pipe Fittings

Pipe insulation and mudded pipe fittings are suspected to be located within inaccessible areas of the building. Inaccessible areas include but are not limited to walls, pipe chases, ceilings and floors. The materials are suspected to be present and cannot be assessed. These materials were assumed to be ACBM.

4.1.7 Glue Daubs behind Mirrors

Glue daubs associated with restroom mirrors located throughout the Board of Education has been assumed to contain asbestos. The ACBM was observed in good condition with no signs of damage noted. These materials were assumed to be ACBM.

4.2 Confirmed Non-ACBM

The performance of a proper material bulk sampling program in accordance with current AHERA guidelines has documented the absence of asbestos in the following building materials:

- Plaster ceilings and walls
- Sheetrock Boards
- Ceiling Tiles

4.3 Additional Bulk Samples Collected

TRC has not conducted additional bulk sampling within the Board of Education Building.

4.4 History of Response Actions

TRC was unable to procure all of the supporting documentation or compliance reports on file of past response actions for the ACBM noted at the Derby Board of Education and recommends these reports be made available at the Board of Education as soon as possible.

4.5 Inventory and Classifications of ACBM

Refer to **Table II-4** for an inventory of the ACBM known to exist at the Board of Education and material classifications using current USEPA AHERA guidelines. Any changes from the 2010 AMP in regards to the condition of the ACBM were noted and the material reclassified accordingly. Refer to **Section III** of this report for ACBM hazard assessments and TRC's recommended control responses.

TABLE II-4
2015 AHERA RE-INSPECTION OF
BOARD OF EDUCATION AREAS OF 35 FIFTH STREET BUILDING
INVENTORY AND CLASSIFICATIONS OF ACBM

Location	ACBM	Assumed/ Sampled	Category*	Area	Friable	AHERA Assessment Category	Change in 2011 Reinspection
Copy room, adjoining walls between Office 7, 8	Wood panel glue	Assumed	Misc.	600 SF	Non-Friable	ACBM with a potential for damage	No
Copy room, 1 st floor Lobby, Vault 1, 2, Office 4	9X9 Floor Tile & Mastic 1	Assumed	Misc.	2,034 SF	Non-Friable	ACBM with a potential for damage (Residual mastic – 2 SF in 1 st floor-slop sink 1, 10 SF in 2 nd floor-slop sink 2)	No
Stage Room 2, Conference room 1, Office 8, 10, Break room, 2 nd Fl Lobby	9X9 Floor Tile & Mastic 2	Assumed	Misc.	1,890 SF	Non-Friable	ACBM with a potential for damage	No
Office 6, 7, 9, 11, Vault 3, Conference Room 2, 2 nd Fl Stage Room 2	9X9 Floor Tile & Mastic 3	Assumed	Misc.	1,710 SF	Non-Friable	ACBM with a potential for damage (Residual mastic – 3 SF in storage room 2)	No
Office 5	9X9 Floor Tile & Mastic 4	Assumed	Misc.	225 SF	Non-Friable	ACBM with a potential for damage	No
File room, Copy room, Office 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, Break room, Conference Room 1, 2.	Carpet glue	Assumed	Misc.	3,366 SF	Non-Friable	ACBM with a potential for damage	No
File room, Copy room, Office 1, 2, 3, 4, 8, 9, 10, 11, Vault 1, Stage room 2, 2 nd Fl Lobby	Cove Base 1	Assumed	Misc.	3,942 SF	Non-Friable	ACBM with a potential for damage	No
Vault 2, 3, Office 7, Slop sink 2, Conference room 2, Break room	Cove Base 2	Assumed	Misc.	744 LF	Non-Friable	ACBM with a potential for damage	No
Office 5, 8, 12	Cove Base 3	Assumed	Misc.	170 LF	Non-Friable	ACBM with a potential for damage	No
All BOE window systems	Window glazing and caulk	Assumed	Misc.	~30 window systems	Non-Friable	Damaged or significantly damaged friable miscellaneous ACM	Window glazing damaged- interior windows in Accounts Payable Copy Rm (#67)
Throughout	Pipe Insulation and/or mudded fittings (inaccessible locations)	Assumed	TSI	Unknown	Friable	ACBM with a potential for damage	No
Restrooms	Possible Glue Daubs behind Mirrors	Assumed	Misc.	Unknown	Non-Friable	ACM with a low potential for damage	No

III. ACBM HAZARD ASSESSMENT AND CONTROL RESPONSES

The performance of asbestos building investigations by an accredited inspector revealed that ACBM exists in a variety of forms within the Derby Public School buildings and administrative office areas. This section of report will assess the potential exposure to building occupants from these materials and prioritize the remedial actions necessary to effectively alleviate the potential hazards associated with asbestos.

The USEPA has produced a draft document entitled *Guidance for Assessing and Managing Exposure to Asbestos in Buildings*. The EPA report proposes the use of "decision trees" for estimating the risks posed by exposure to ACBM and recommends certain response actions which are consistent with the Asbestos Hazard Emergency Response Act (AHERA) regulations. TRC's asbestos exposure assessment and recommendations are derived from these guidelines for each material noted. The two factors that must be evaluated when doing an exposure assessment for friable asbestos are the present condition of the ACBM and the potential for future disturbance of the ACBM. To use the EPA's Decision Tree, the present condition of the friable ACBM is evaluated as being significantly damaged, damaged or not damaged.

The potential for future disturbance takes into account a number of factors which include accessibility to building occupants, level of activity of building occupants, mechanical vibrations and air erosion. The response action selected for each type of ACM is sufficient to protect human health and the environment. Generally, there are five recognized courses of action to control ACBM: 1) removal and disposal; 2) repair; 3) enclose; 4) encapsulate; and 5) operations and maintenance (O&M) programs. The USEPA has indicated that there are no longer any grounds for deferring action in a building with ACBM. Even when ACBM is identified in a building and exists under ideal conditions (non-friable, minimum access, no physical damage, etc.), the absolute minimum corrective action that should be taken consists of a comprehensive O&M program and periodic re-inspection of the building.

The recommendations for a specific corrective action or abatement measure are presented for each type of ACM in each homogeneous area. The response actions are based on the USEPA's Decision Tree, **Figure III-a**. The following are standard recommended response actions for various types of ACM:

Damaged or Significantly Damaged Thermal ACM:

- 1) Repair damaged areas.
- 2) Remove the damaged material if it is not feasible due to technological factors to repair the damage.
- 3) Maintain all thermal system ACM and its covering in an intact state and undamaged condition.
- 4) Implement Operation and Maintenance Program until eventual removal.

Damaged Friable Surfacing ACM:

- 1) Repair damaged material.
- 2) Implement Operation and Maintenance Program until eventual removal.
- 3) If unable to repair damaged material, remove.

Damaged Miscellaneous ACM:

- 1) Repair damaged material.
- 2) Implement Operation and Maintenance Program until eventual removal.
- 3) If unable to repair damaged material, remove.

Significantly Damaged Surfacing ACM:

- 1) Immediately isolate the functional space and restrict access.
- 2) Remove material.

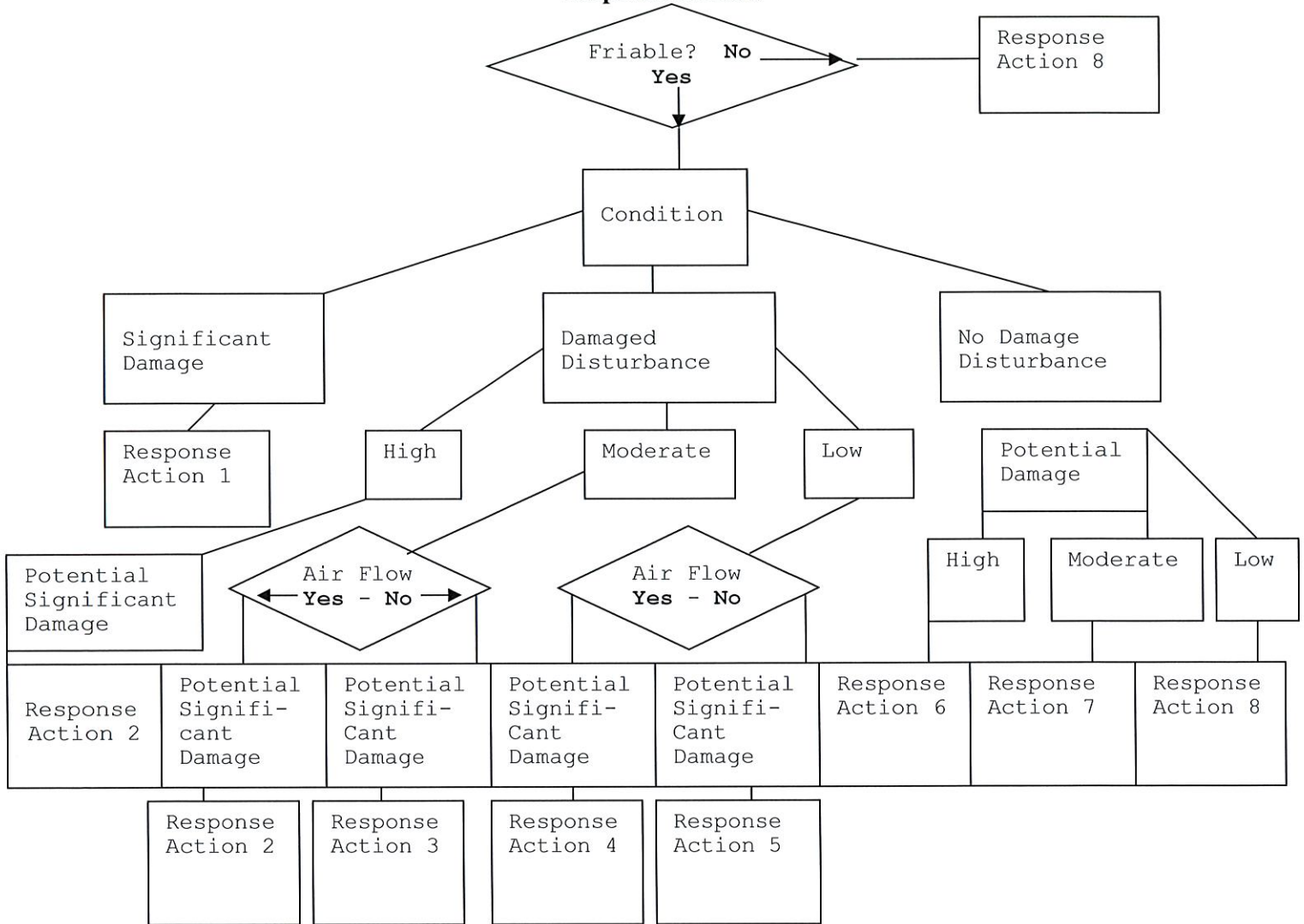
Significantly Damaged Miscellaneous ACM:

- 1) Immediately isolate the functional space and restrict access.

2) Remove material.

Hazard Assessment Summaries and specific recommended response actions for ACBM located in the Derby Public School buildings are included in the following tables. Refer to **Figure III-a** for the EPA Decision Tree and subsequent response action key.

**FIGURE III-a
EPA Decision Tree and
Response Actions**



RESPONSE ACTION KEY;

1. Isolate area and restrict access. Remove as soon as possible.
2. Implement O&M. Remove as soon as possible or reduce potential for disturbance.
3. Implement O&M. Schedule removal when practical and cost-effective, or reduce disturbance.
- 4-5. Implement O&M. Schedule removal when practical and cost-effective. Number indicates priority for removal.
- 6-7. Implement O&M. Take preventive measures to reduce disturbance. Number indicates priority for removal.
8. Implement O&M until major renovation or demolition requires removal under NESHAPS or until hazard assessment factors change.

**TABLE III-1
2015 HAZARD ASSESSMENT AND RESPONSE ACTIONS
FOR ACBM AT THE
DERBY HIGH SCHOOL**

ACBM	LOCATION	FRIABLE	CONDITION	POTENTIAL FOR FUTURE DAMAGE	AIR FLOW	RESPONSE ACTION*
9"x9" green w/white streak floor tile with associated mastic (FT1)	Throughout	No	Damaged	High	No	8
12"x12" gray w/dark streak floor tile with associated mastic (FT2)	Guidance Office –main level	No	No Damage	High	No	8
Pipe fitting insulation	Electrical 7 9off Room 124)	Yes	No Damage	Moderate	No	5
Pipe fitting insulation	Music Room	Yes	No Damage	Moderate	No	5
Pipe fitting insulation	Hallway (north entrance)	Yes	No Damage	Moderate	No	5
Pipe fitting insulation	Hallway (adjacent to administration)	Yes	No Damage	Moderate	No	5
Pipe fitting insulation	Hallway (near electrical room G-2)	Yes	No Damage	Moderate	No	5
Pipe fitting insulation	Hallway (entry to G-01)	Yes	No Damage	Moderate	No	5
Pipe fitting insulation	Room G-01	Yes	No Damage	Moderate	No	5
Pipe fitting insulation	Hallway (Science)	Yes	No Damage	Moderate	No	5
Pipe fitting insulation	Room G-5	Yes	No Damage	Moderate	No	5
Pipe fitting insulation	Hallway (rear exit)	Yes	No Damage	Moderate	No	5

**TABLE III-1
2015 HAZARD ASSESSMENT AND RESPONSE ACTIONS
FOR ACBM AT THE
DERBY HIGH SCHOOL**

ACBM	LOCATION	FRIABLE	CONDITION	POTENTIAL FOR FUTURE DAMAGE	AIR FLOW	RESPONSE ACTION*
Pipe fitting insulation	Hallway (Bus & Main)	Yes	No Damage	Moderate	No	5
Pipe fitting insulation	Hallway (near G-07)	Yes	No Damage	Moderate	No	5
Pipe fitting insulation	Electrical Room	Yes	No Damage	Moderate	Yes	5
Pipe fitting insulation	Storage Room	Yes	No Damage	Moderate	Yes	5
Pipe fitting insulation	Cafeteria Hallway	Yes	No Damage	Moderate	No	5
Pipe fitting insulation	Girls Hot Water Tank	Yes	No Damage	Moderate	No	5
Pipe fitting insulation	Cafeteria	Yes	No Damage	Moderate	No	5
Ceramic floor tile glue (G1)	Restrooms – throughout, kitchen	No	No Damage	Low	No	8
Ceramic wall tile glue (G2)	Restrooms – throughout, kitchen	No	No Damage	Low	No	8
Glue under wood flooring (G3)	Wood Shop – main level	No	No Damage	Low	No	8
Black board glue daubs	Classrooms – lower level	No	No Damage	Moderate	No	8
Sink undercoating	Lower & main levels	No	No Damage	Low	No	8

**TABLE III-1
2015 HAZARD ASSESSMENT AND RESPONSE ACTIONS
FOR ACBM AT THE
DERBY HIGH SCHOOL**

ACBM	LOCATION	FRIABLE	CONDITION	POTENTIAL FOR FUTURE DAMAGE	AIR FLOW	RESPONSE ACTION*
Black cove base with associated mastic (CB1)	Lower level	No	No Damage	Moderate	No	8
Gray cove base with associated mastic (CB2)	Main level	No	No Damage	Moderate	No	8
Inner window caulk (C3)	Exterior – window systems	No	No Damage	Moderate	Yes	8
Laboratory table tops	Lower level	No	No Damage	Moderate	No	8
Transite panels	Exterior, soffit along perimeter	No	Per BOE Roof has been replaced	Moderate	Yes	8
Roofs (tar flashing materials)	Exterior roofs	No	Per BOE Roof has been replaced	Moderate	Yes	8
Transite hood	Room G-02	No	No Damage	Moderate	Yes	8
Transite ceiling tiles	Main entrance (near gym/auditorium) – entry area, stage storage, interior loading dock	No	No Damage	Moderate	Yes	8
Wiring insulation	Stage lighting	No	No Damage	Moderate	Yes	8
Mudded pipe fitting	Homemaking – Room 127	Yes	No Damage	Moderate	Yes	5

TABLE III-1
 2015 HAZARD ASSESSMENT AND RESPONSE ACTIONS
 FOR ACBM AT THE
 DERBY HIGH SCHOOL

Response Actions Taken	
DATE	DESCRIPTION
8/04	Removed ~5,404 SF VAT/mastic and 750 LF cove base/mastic from ground floor rooms and corridor areas.
7/05	Removed ~2,500 SF VAT/mastic from south corridor by LPD contracting of Clifton, New Jersey.
	BOE reported to TRC at time of reinspection that roof on High School has been replaced

**TABLE III-2
2015 HAZARD ASSESSMENT AND RESPONSE ACTIONS
FOR ACBM AT THE
IRVING ELEMENTARY SCHOOL**

ACBM	LOCATION	FRIABLE	CONDITION	POTENTIAL FOR FUTURE DAMAGE	AIR FLOW	RESPONSE ACTION*
Pipe insulation	Sink Storage	Yes	No damage	Moderate	No	7
Pipe insulation	Gas Meter Room	Yes	No damage	Moderate	No	7
Pipe insulation	Stage – above paneling	Yes	No damage	Low	No	8
Pipe insulation	Stairwell – next to gas meter/electrical room	Yes	No damage	Moderate	No	7
Pipe insulation	Stage Storage	Yes	No damage	Moderate	No	7
Pipe insulation	Above Stage Storage	Yes	No damage	Moderate	No	7
Pipe insulation	Stage Heating Unit	Yes	Damage	High	Yes	2
Pipe insulation	Stage loft	Yes	No damage	Moderate	No	7
Pipe insulation	Stage – above paneling	Yes	No damage	Moderate	No	7
Pipe insulation	Tunnels	Yes	No damage	Low	No	8
Pipe insulation	Hallway (above ceiling)	Yes	No damage	Low	No	8
9"x9" floor tile with associated mastic	Throughout	No	No damage	High	No	8

**TABLE III-2
2015 HAZARD ASSESSMENT AND RESPONSE ACTIONS
FOR ACBM AT THE
IRVING ELEMENTARY SCHOOL**

ACBM	LOCATION	FRIABLE	CONDITION	POTENTIAL FOR FUTURE DAMAGE	AIR FLOW	RESPONSE ACTION*
Acoustical ceiling plaster	Throughout	Yes	No damage	Moderate	No	7
Vapor Barrier at Metal Grid	Second floor classrooms	No	No damage	Moderate	No	8
Ceramic floor tile glue	Restrooms and Locker Rooms	No	No damage	Low	No	8
Rubber stair tread glue	Stairwells	No	Damage	Moderate	No	8
Ceramic wall tile glue	Restrooms and Locker Rooms	No	No damage	Low	No	8
Blackboard material and glue daubs behind blackboards	Throughout	No	No damage	Moderate	No	8
Sink undercoating	Throughout	No	No damage	Low	No	8
Mirror glue daubs	Restrooms	No	No damage	Low	No	8
Window caulk	Exterior at Window systems	No	No damage	Moderate	Yes	8
Roof flashing/tar sealants	Per BOE Roof has been replaced	No	No damage	Low	Yes	8

Response Actions Taken	
DATE	DESCRIPTION
1995	Removed 2x4 acoustical ceiling tile from the O&M program per sampling on 5/1/95. Sample results were not identified by TRC and the materials were re-sampled by TRC and found to be non-ACBM
6/05-7/05	AAIS removed 2,065 SF VAT/mastic from 2 nd floor hallway and classroom 2 on the 1 st floor. Also removed 110 LF of cove base from classroom 2. AAIS removed 260 LF of pipe insulation from 1 st and 2 nd floor pipe chases. AAIS made penetrations into the gymnasium asbestos containing deck to install lighting system. Removed 6,000 SF of VAT/mastic from the gymnasium.
10/05-11/05	AAIS removed window systems.
11/05	AAIS removed 600 SF of VAT/mastic and 60 LF of pipe insulation from the stage and basement.
	BOE reported to TRC at time of reinspection that roof on Irving Elementary School has been replaced

**TABLE III-3
2015 HAZARD ASSESSMENT AND RESPONSE ACTIONS
FOR ACBM AT THE
BRADLEY ELEMENTARY SCHOOL**

ACBM	LOCATION	FRIABLE	CONDITION	POTENTIAL FOR FUTURE DAMAGE	AIR FLOW	RESPONSE ACTION*
Pipe Fitting Insulation	Gymnasium	Yes	No damage	Moderate	No	7
Pipe Fitting Insulation	Stage	Yes	No damage	Moderate	No	7
Pipe Fitting Insulation	Hallways	Yes	Damaged	Moderate	No	3
HVAC flexible duct connectors	Gymnasium	Yes	No damage	Moderate	No	7
9x9 resilient floor tile and associated mastic (FT1, 3-5, 7-10, 12, 13)	Throughout	No	No damage	High	No	8
12x12 resilient floor tile and associated mastic (FT2, 6, 14)	Throughout	No	No damage	High	No	8
Sink undercoating	Rooms 119, 120 and 124	No	No damage	Low	No	8
Glue on pull-out table top material (G3)	Gymnasium	No	No damage	High	No	8
Ceramic tile wall glue (G4)	Throughout bathrooms	No	No damage	Low	No	8
Ceramic floor tile glue (G5)	Throughout bathrooms	No	No damage	Low	No	8
Blackboard material and related glue daubs (G6)	Throughout classrooms	No	No damage	Moderate	No	8
Mastic associated with gray cove base (CB1)	Throughout library	No	No damage	Moderate	No	8
Front facing caulk (C2)	Exterior-front entrance	No	No damage	Moderate	Yes	8

**TABLE III-3
2015 HAZARD ASSESSMENT AND RESPONSE ACTIONS
FOR ACBM AT THE
BRADLEY ELEMENTARY SCHOOL**

ACBM	LOCATION	FRIABLE	CONDITION	POTENTIAL FOR FUTURE DAMAGE	AIR FLOW	RESPONSE ACTION*
Roof materials	Per BOE Roof has been replaced	No	No Damage	Moderate	Yes	8

Response Actions Taken	
DATE	DESCRIPTION
1996	Boiler room- all pipe insulation fittings removed and replaced with fiberglass.
7/05	LPD Contracting of Clifton, New Jersey removed 3,250 SF of gym floor with corks/felts/mastics. Removed 2,500 SF of VAT/mastic from the main corridor. Removed 180 LF of cove base/mastic from the main corridor.
	BOE reported to TRC at time of reinspection that roof on Bradley Elementary School has been replaced

**TABLE III-4
2015 HAZARD ASSESSMENT AND RESPONSE ACTIONS
FOR ACBM AT THE
BOARD OF EDUCATION AREAS AT 35 FIFTH STREET**

ACBM	LOCATION	FRIABLE	CONDITION	POTENTIAL FOR FUTURE DAMAGE	AIR FLOW	RESPONSE ACTION*
Wood panel glue	Copy room, adjoining walls between Office 7, 8	No	No damage	Low	No	8
9X9 Floor Tile & Mastic 1	Copy room, 1 st floor Lobby, Vault 1, 2, Office 4	No	No damage	Low	No	7
9X9 Floor Tile & Mastic 2	Stage Room 2, Conference room 1, Office 8, 10, Break room, 2 nd FI Lobby	No	Damaged	Low	No	7
9X9 Floor Tile & Mastic 3	Office 6, 7, 9, 11, Vault 3, Conference Room 2, 2 nd FI Stage Room 2 – (½ FT missing)	No	No damage	Low	No	7
9X9 Floor Tile & Mastic 4	Office 5	No	No damage	Low	No	7
Carpet glue	File room, Copy room, Office 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, Break room, Conference Room 1, 2,	No	No damage	Low	No	8
Cove Base 1 with mastic	File room, Copy room, Office 1, 2, 3, 4, 8, 9, 10, 11, Vault 1, Stage room 2, 2 nd FI Lobby	No	No damage	Low	No	8
Cove Base 2 with mastic	Vault 2, 3, Office 7, Slop sink 2, Conference room 2, Break room	No	No damage	Low	No	8
Cove Base 3 with mastic	Office 5, 8, 12	No	No damage	Low	No	8
Window glazing and caulk	All BOE window systems; Office 6 – Accounts Payable Copy Room Interior Windows	No	No Damage	Low	No	7
Pipe Insulation and/or mudded fittings (inaccessible locations)	Throughout	Yes	No damage	Moderate	No	5
Possible Glue Daubs behind Mirrors	Restrooms	No	No damage	Low	No	8

TABLE III-3
 2011 HAZARD ASSESSMENT AND RESPONSE ACTIONS
 FOR ACBM AT THE
 BOARD OF EDUCATION AREAS AT 35 FIFTH STREET

DATE	DESCRIPTION	Response Actions Taken
	There is no history of response actions at the Board of Education Building.	

APPENDIX A

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
CERTIFICATION OF INSPECTION SUBMITTAL



21 Griffin Road North
Windsor, CT 06095

860.298.9692 PHONE
860.298.6399 FAX

www.TRCSolutions.com

November 20, 2015

Ms. Kristen Day
Environmental Sanitarian II
Department of Public Health
Indoor Air Program
Division of Environmental Health
410 Capitol Avenue, MS#51AIR
P.O. Box 340308
Hartford, Connecticut 06134

Re: AHERA Inspections
Derby Public Schools
TRC Job No.: 242634

Dear Ms. Day:

Enclosed please find the Local Education Agency Three Year Reinspection Report for the AHERA inspections of the Derby High School, the Irving Elementary School, the Bradley Elementary School and the Board of Education building in the City of Derby. TRC Environmental Corporation, acting on behalf of the Derby Board of Education, is forwarding this form as required.

If you have any questions regarding this project please do not hesitate to call me at (860) 298-6266.

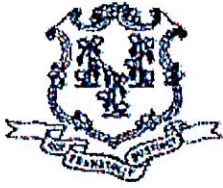
Sincerely,

TRC ENVIRONMENTAL CORPORATION

A handwritten signature in black ink that reads "Henry J. Laliberte".

Henry J. Laliberte
Senior Consulting Scientist

CC: David Nardone, Derby Board of Education



STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

LOCAL EDUCATION AGENCY THREE-YEAR REINSPECTION REPORT OF ASBESTOS-CONTAINING MATERIALS

(In accordance with Section 19a-333-3(b) of the Regulations of Connecticut State Agencies)

INSTRUCTIONS

1. This form must be typewritten.
2. If any space allowed is inadequate, continue on the reverse of this sheet.
3. Return original form to the State of CT Department of Public Health
4. Return a copy of the completed form to the address below and keep a copy in the LEA management plan.

LOCAL EDUCATIONAL AGENCY: Derby Board of Education

Name:	Derby Board of Education		
Address:	35 Fifth Street, Derby, CT 06418		
<u>School(s):</u>	<u>Date Management Plan Accepted by State</u>	<u>Reinspection Date/s</u>	<u>Next Reinspection Due</u>
Please list and identify any schools that have closed since the previous reinspection			
Derby High School	May 1990	August 2015	August 2018
Irving Elementary School	May 1990	August 2015	August 2018
Bradley Elementary School	May 1990	August 2015	August 2018
Board of Education	September 2010	August 2015	August 2018

Inspector/s: Kelly Grey

Signature: Kelly Grey

Please attach copies of current Inspector license and current refresher certificate

Management Planner: Henry J. Laliberte

Signature: Henry J. Laliberte

Please attach copies of current Management Planner license and current refresher certificate

LEA Designated Person: David Nardone

Signature: David Nardone

Please attach documentation of training

Note:

It is required that new custodial and maintenance employees attend a (2) hr. asbestos awareness training program within 60 working days of employment. Documentation that such training has been provided must be included in the management plan.



Phone: (860) 509-7367, Fax: (860) 509-7378
 Telephone Device for the Deaf (860) 509-7191
 410 Capitol Avenue - MS #51 AIR
 P.O. Box 340308 Hartford, CT 06134
 An Equal Opportunity Employer

Certificate of Training

Signifying that

David Nardone

has successfully completed a course entitled

ASBESTOS AWARENESS TRAINING PROGRAM
Introduction to Asbestos Designated Person Responsibilities
March 19, 2008

This training course initiates compliance with State of Connecticut regulations for asbestos in schools as found in
RCSA 19a-333-2 (g) (h)

Presented by

Mystic Air Quality Consultants, Inc.
1204 North Road, Groton, CT. 06340 (800) 247-7746

Certificate Number: ASBA W031908 1

Expiration Date: March 19, 2009

Richard Haffey

Instructor: Richard Haffey, President

Christopher J. Eident

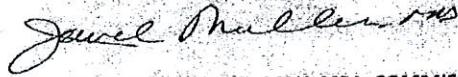
Christopher J. Eident: CIH, CSP, RS, C.E.O.

KELLY M GREY
TRC SOLUTIONS
21 GRIFFIN RD N
WINDSOR, CT 06095-1512

Dear Licensed/Certified Professional,
Attached you will find your validated license/certification for the coming year. Should you have any questions about your license/certificate renewal, please do not hesitate to write or call:

Department of Public Health (860) 509-7603
P.O. Box 340308
M.S.#12MQA <http://www.dph.state.ct.us>
Hartford, CT 06134-0308

Sincerely,



JEWEL MULLEN, MD, MPH, MPA, COMMISSIONER
DEPARTMENT OF PUBLIC HEALTH

INSTRUCTIONS:

1. Detach and sign each of the cards on this form.
2. Display the large card in a prominent place in your office or place of business.
3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.
4. The employer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges. The employer's card is to be presented to the employer and kept by them as a part of your personnel file. Only one copy of this card can be supplied to you.

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT


THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A
Asbestos Consultant-Inspector

KELLY M GREY

CERTIFICATION NO.
904

CURRENT THROUGH
02/29/2016

VALIDATION NO.
DUPLICATE



SIGNATURE: _____
COMMISSIONER

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

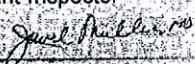
NAME
KELLY M GREY

VALIDATION NO. 904
DUPLICATE

CERTIFICATION NO. 904
PROFESSION

CURRENT THROUGH
02/29/2016

Asbestos Consultant-Inspector



SIGNATURE: _____
COMMISSIONER

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH


NAME
KELLY M GREY

VALIDATION NO. 904
DUPLICATE

CERTIFICATION NO. 904
PROFESSION

CURRENT THROUGH
02/29/2016

Asbestos Consultant-Inspector



SIGNATURE: _____
COMMISSIONER

CERTIFICATE OF ACHIEVEMENT

This certifies that

Kelly Grey

has successfully completed the
**Asbestos Site Inspector Initial Training
Asbestos Accreditation Under TSCA Title II
40 CFR Part 763**

conducted by

**Cardno ATC
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070**

Edward Kolodziej

Principal Instructor: Edward Kolodziej

October 20-22, 2014

Date of Course

October 22, 2015

Expiration Date

Gregory J. Morsch

Regional Training Manager: Gregory Morsch

SI-1753

Certificate Number

October 22, 2014

Examination Date

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A
ASBESTOS CONSULTANT-INSP/MGMT PLANNER

HENRY J. LALIBERTE

CERTIFICATE NO.
000030

CURRENT THROUGH
11/30/15

VALIDATION NO.
03-102593


SIGNATURE


COMMISSIONER

Certificate of Training

Awarded to

HENRY LALIBERTE

*For successful completion of an 8 Hour, 1 Day
Asbestos Inspector & Management Planner
Annual Refresher Training*

June 23, 2015

This training was approved and given in accordance with
Regulations for Connecticut State Agencies
RCSA 20-440 - 1-9 and RCSA 20-441 and meets the
requirements of the EPA Revised MAP under TSCA Title II of 4/4/94

Presented by

Mystic Air Quality Consultants, Inc.

1204 North Road, Groton, CT 06340 (800) 247-7746

Certificate Number: IMPR24186

Exam Grade: 95

Exam Date: 06/23/2015

Expiration Date: 06/23/2016



Christopher J. Eident, CIH, CSP, RS




George Williamson, Training Director
Richard Haffey, Training Director

APPENDIX B

FLOOR PLAN SKETCHES SHOWING ASBESTOS LOCATIONS

MPT OF DEBY HIGH UTILITY SHUT-OFF LOCATIONS

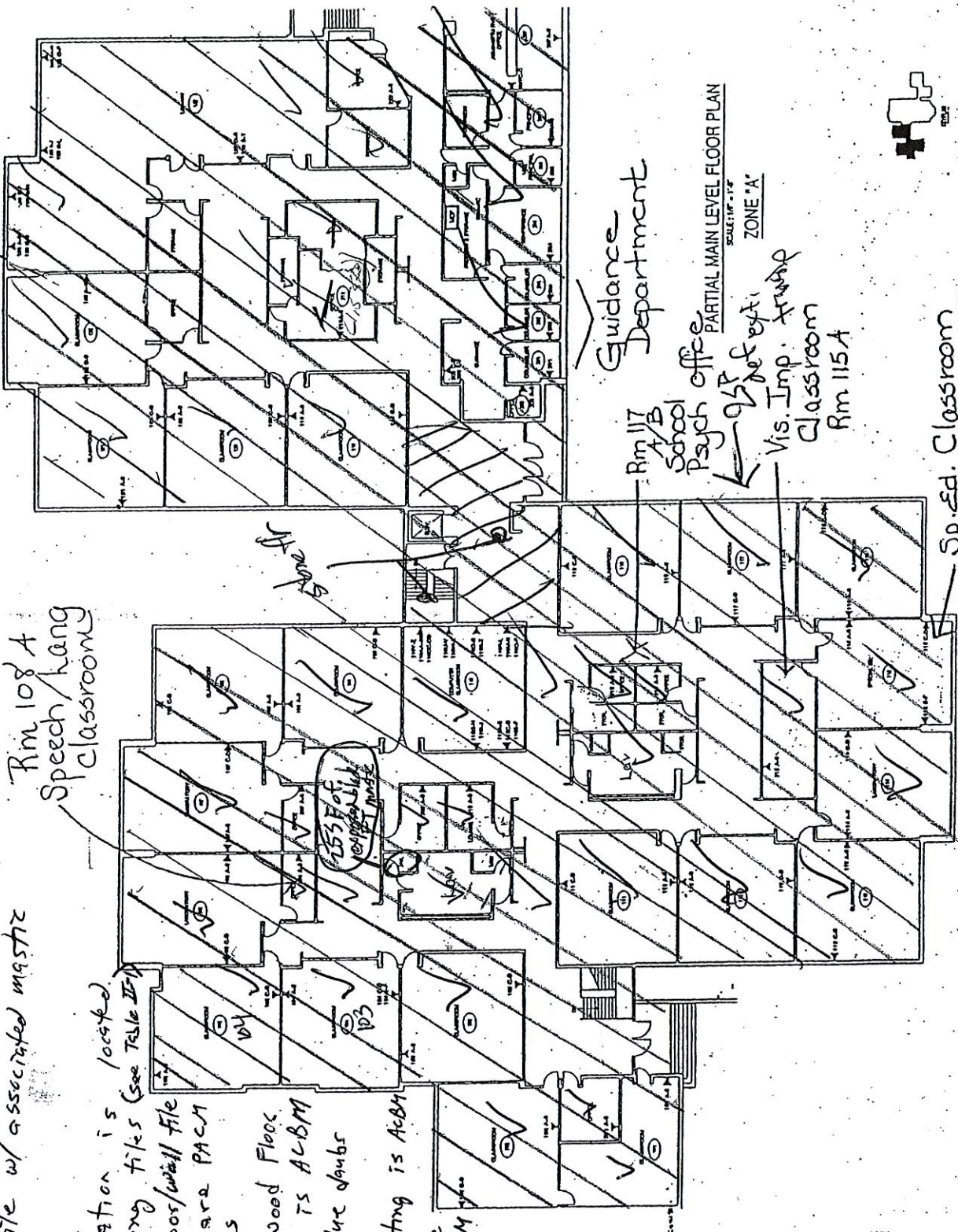
Legend of Symbols

 Floor tile w/ associated master

FITTING
Noted pipe & insulation is located above ceiling tiles (See Table B)

- 2) ceramic floor/wall tile adhesives are PACM in restrooms
- 3) Glue under wood floors in wood shop is ACBM
- 4) Black board glue doubler are ACBM
- 5) sink undercoating is ACBM
- 6) gray cove base w/ master is ACBM

Rm 108 A
Speech/lang
classrooms



PARTIAL MAIN LEVEL FLOOR PLAN
SCALE: 1/4" = 1'-0"
ZONE "A"

Legend of Symbols

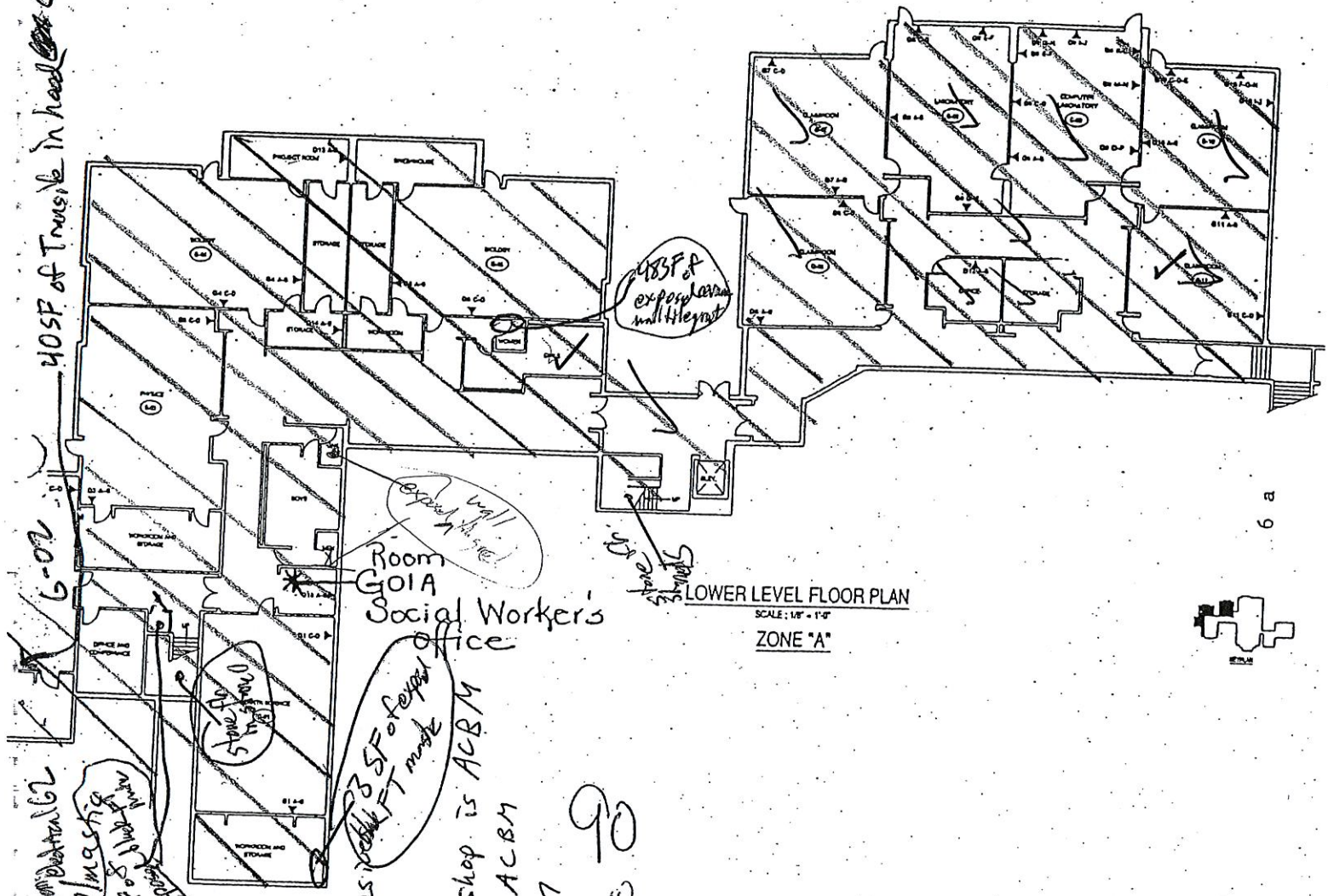
//// Floor tile w/associated mastic

Notes:

- 1) pipe insulation is located above ceiling tiles (See Table II-1)
- 2) ceramic floor/wall tile areas are PACM in restrooms
- 3) glue under wood floor in wood shop is ACBM
- 4) Blackboard glue dams are ACBM
- 5) sink undercoating is ACBM
- 6) gray core base w/mastic is ACBM

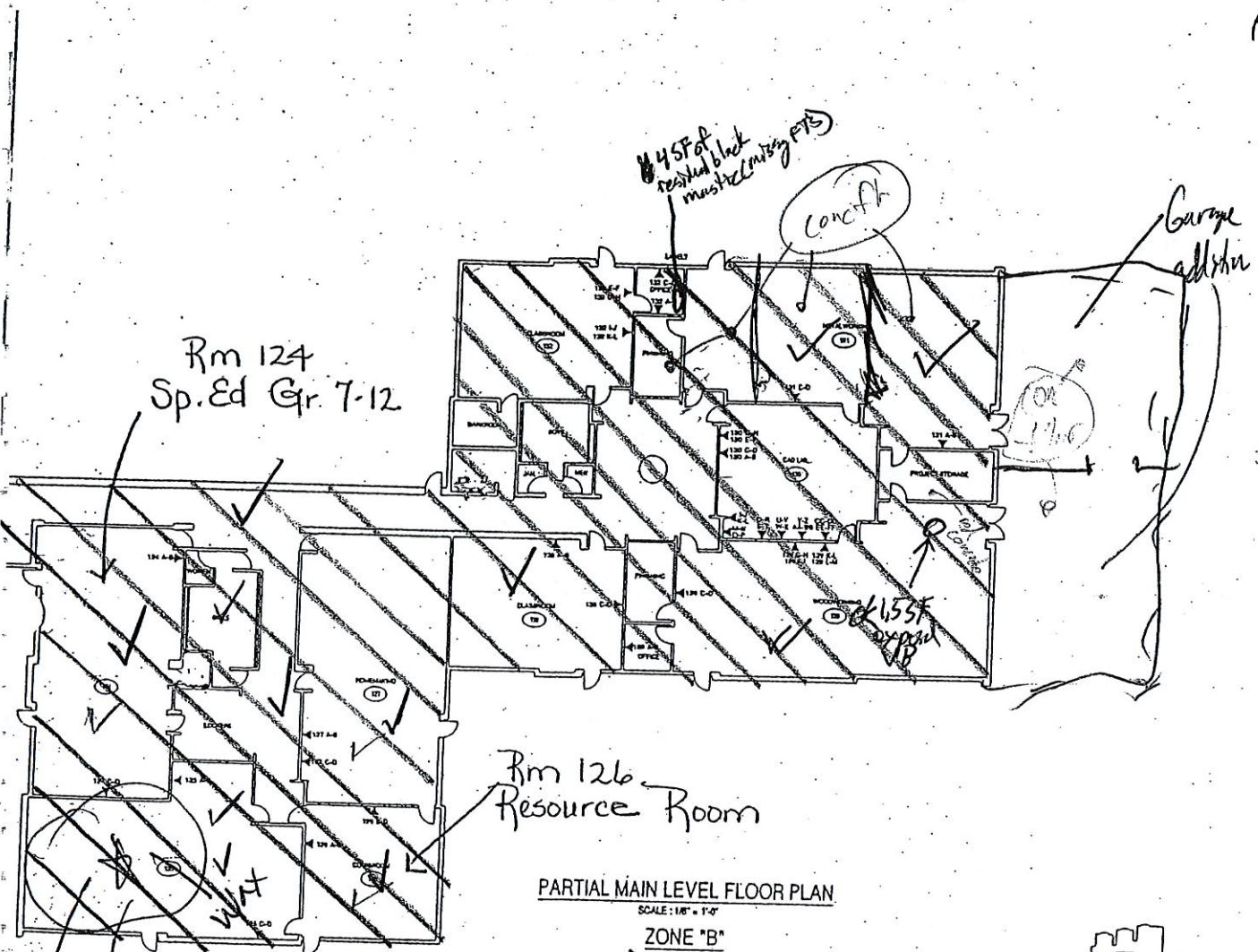
Room 622
1157 sq ft
1157 sq ft
1157 sq ft

40SF of Truss in head of Contact - exposed obj



LOWER LEVEL FLOOR PLAN
SCALE: 1/8" = 1'-0"
ZONE "A"

6 a



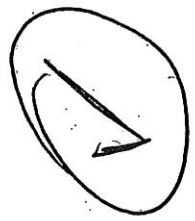
PARTIAL MAIN LEVEL FLOOR PLAN
SCALE: 1/8" = 1'-0"
ZONE "B"

Legend of Symbols

//// Floor tile w/ associated mastic
Sp. Ed. Gr. 125
Gr 9-12

Notes:

- 1) pipe insulation is located above ceiling tiles (see Table II-1)
- 2) ceramic floor/wall tile adhesives are PACM in restrooms
- 3) glue under wood floor in wood shop is ACBM
- 4) Black board glue dams are ACBM
- 5) sink undercoating is ACBM
- 6) gray core base w/mastic is ACBM

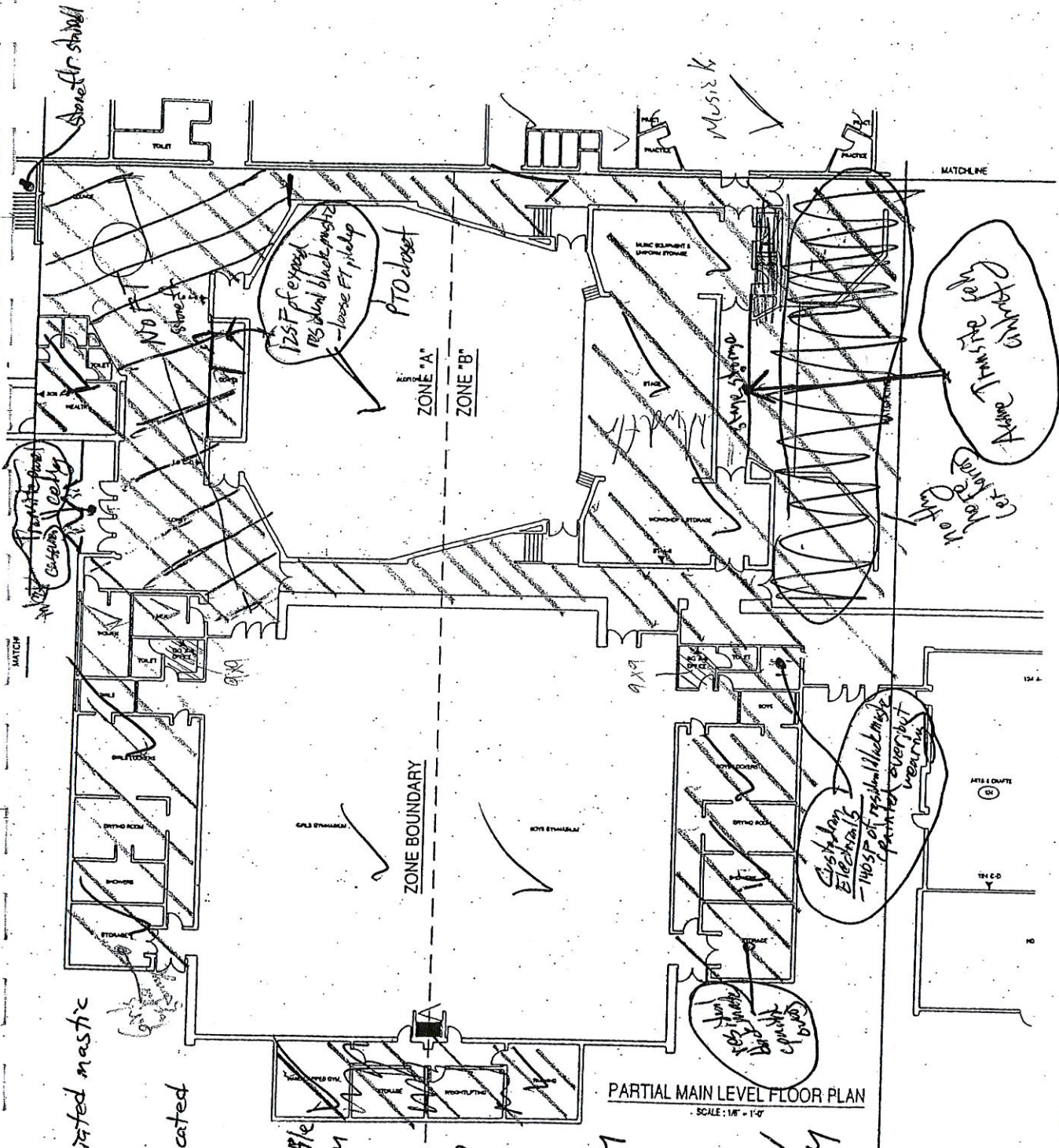


Legend of Symbols

//// Floor tile w/ associated mastic

Notes:

- 1) pipe insulation is located above ceiling tiles (see Table II-1)
- 2) ceramic floor/wall tile adhesives are PACM in restrooms
- 3) glue under wood floor in wood shop is ACBM
- 4) Blackboard glue dams are ACBM
- 5) sink undercoating is ACBM
- 6) gray core base w/ mastic is ACBM



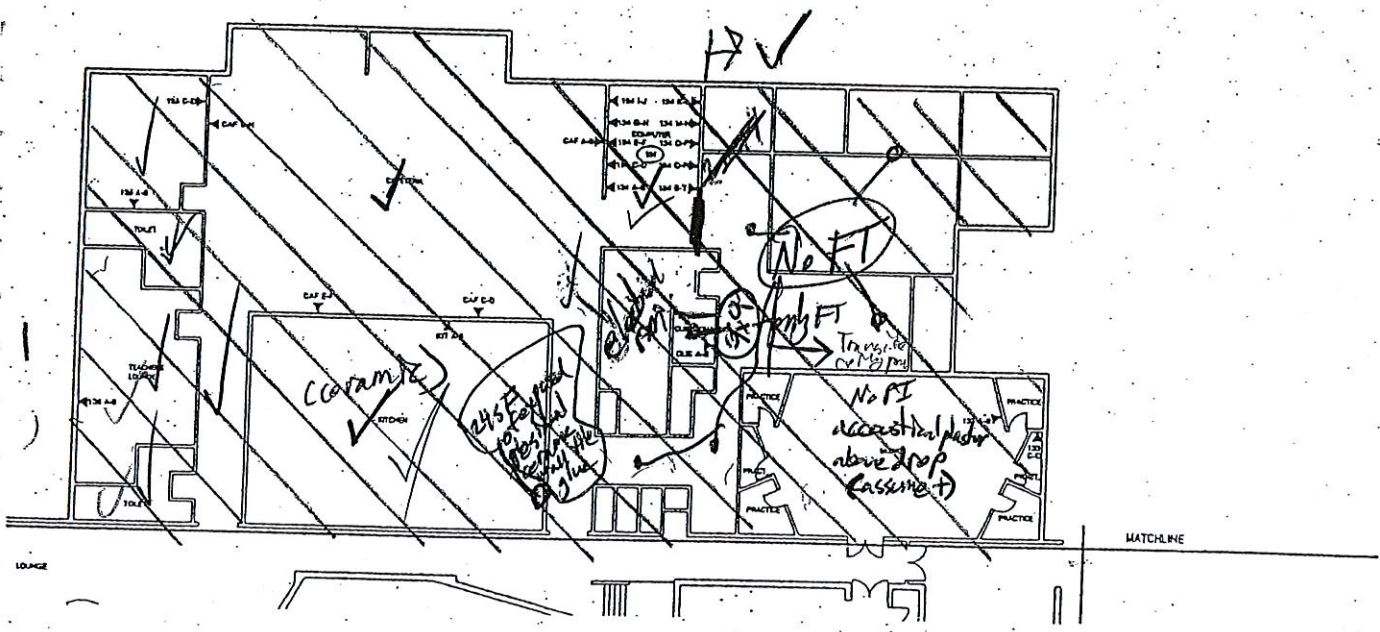
PARTIAL MAIN LEVEL FLOOR PLAN
SCALE: 1/8" = 1'-0"

Legend of Symbols

|||| Floor tile w/ associated mastic

Notes:

- 1) Pipe insulation is located above ceiling tiles (See Table II-1)
- 2) Ceramic floor/wall tile adhesives are PACM in restrooms
- 3) glue under wood floor in wood shop is ACBM
- 4) Blackboard glue daubs are ACBM
- 5) sink undercoating is ACBM
- 6) gray cove base w/ mastic is AEBM



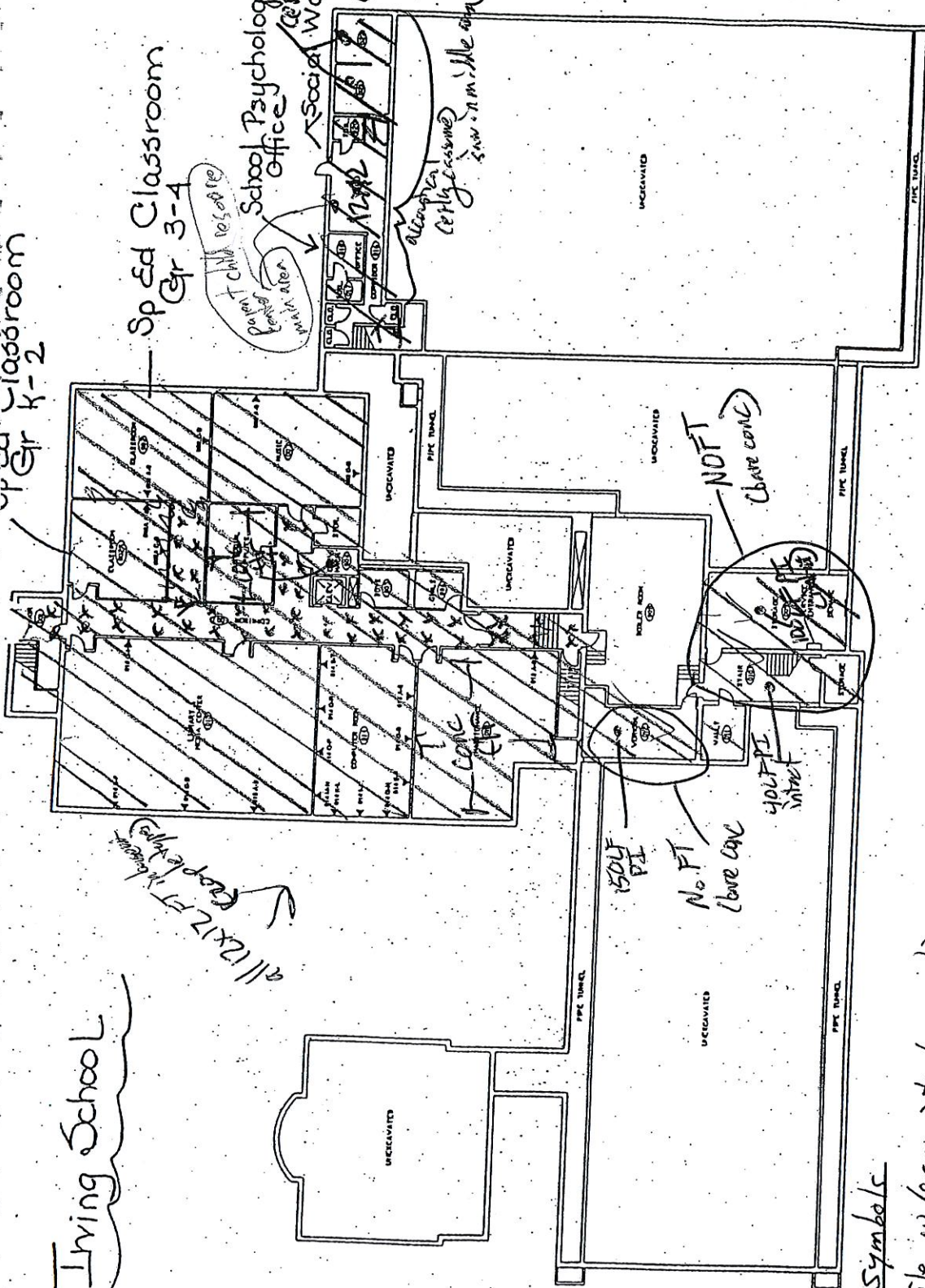
PARTIAL MAIN LEVEL FLOOR PLAN
SCALE: 1/8" = 1'-0"
ZONE "A"

Irving School

Sp Ed Classroom
Gr K-2

Sp Ed Classroom
Gr 3-4

School Psychologist's Office
Social Worker's Office
Counseling Center



all 12x12 FT in concrete
(except for)

Legend of Symbols

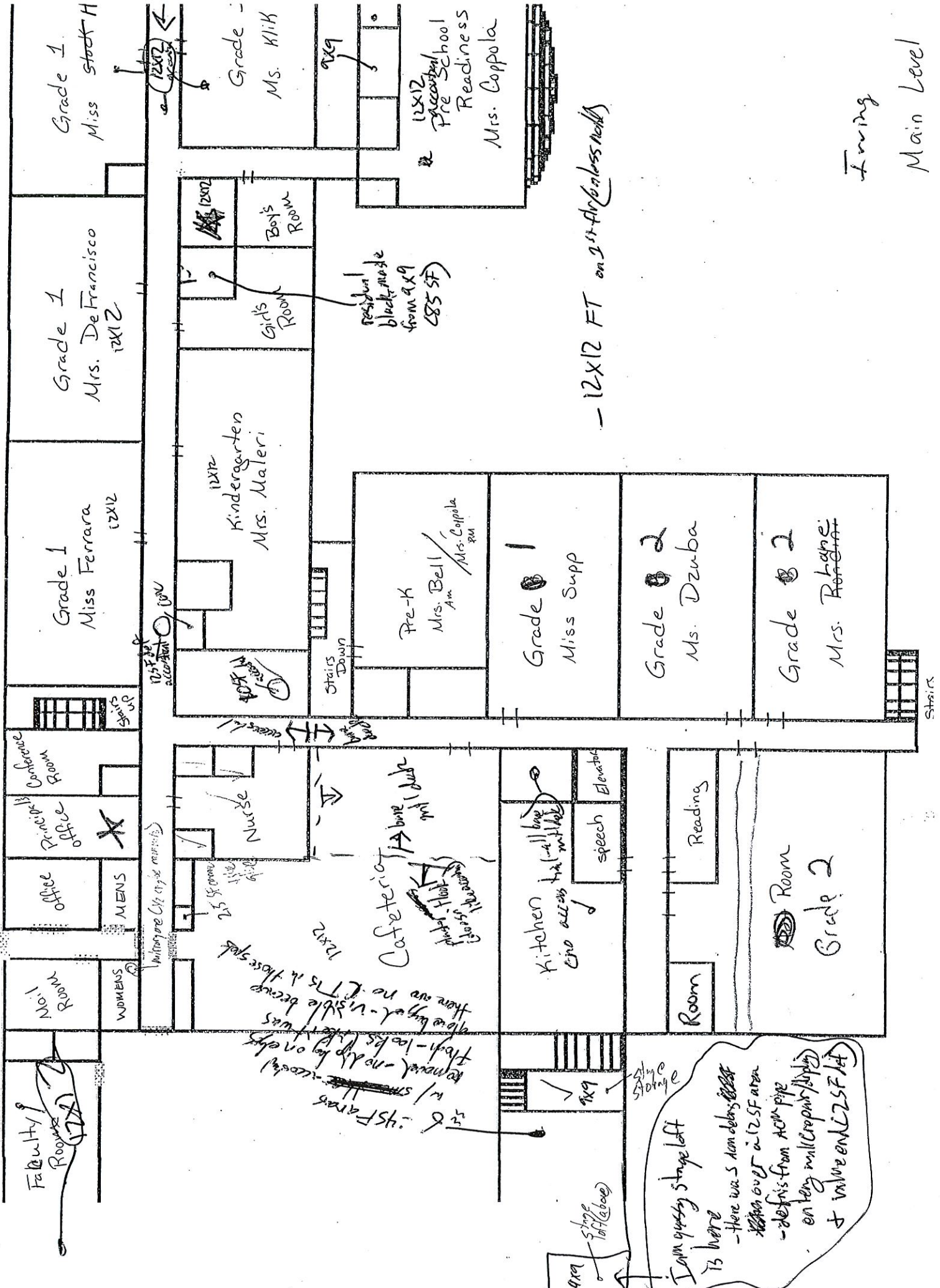
- //// floor tile w/associated mastic
- x x acoustical ceiling plaster

No acoustical ceiling plaster in this section of basement (Close metal backbone drop) & Only in psychologist's office area

Notes:

- 1) Pipe insulation is located in the Boiler Rm, in tunnels, and above ceiling tiles.
- 2) Ceramic floor tile adhesives are PACM, stair tread glue TS ACBM.
- 3) See Table II-2

LOWER LEVEL FLOOR PLAN
SCALE: 1/8" = 1'-0"



- 12x12 FT on 2nd Air (or less) needs

Finishing Main Level

12x12
 there are no ETTs in these spaces
 give by e - visible because
 fresh - ice his like I was
 removed - no tip on edge
 w/ s/m - ~~actual~~
 12x12

I am gussy stage left
 is here
 - there was some debris
~~from~~ over a 12.5F area
 - debris from ACM pipe
 on leg will creep (by hand)
 + value on 12.5F lat

residual
 black mold
 from 9x9
 (85 SF)

stage
 10ft (above)

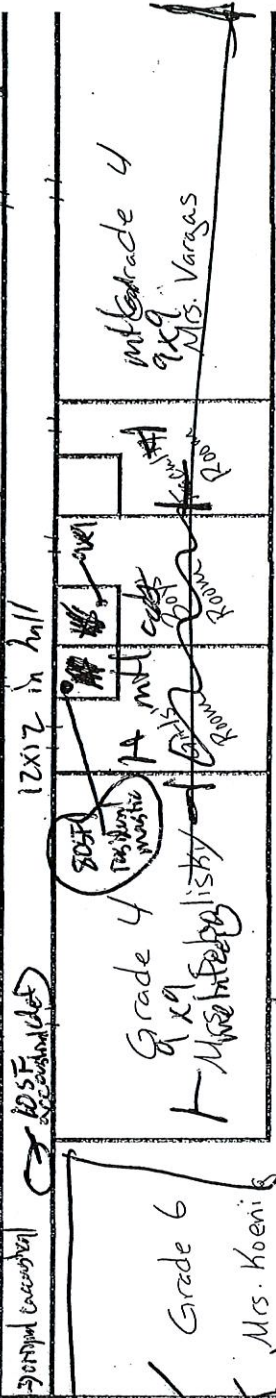
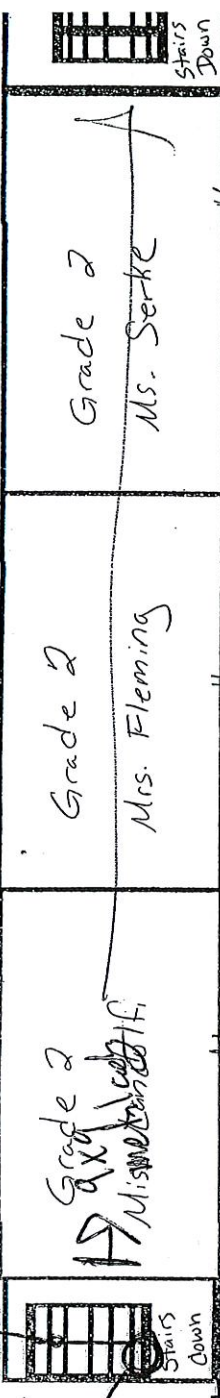
10.5 FT
 12x12
 accommodation

9x9

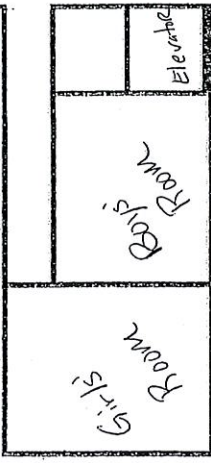
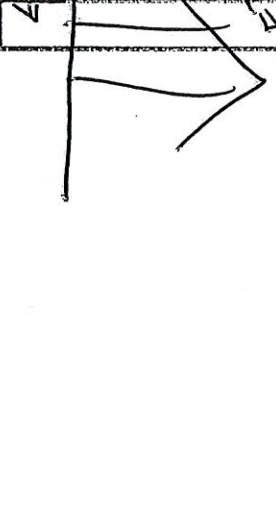
Stairs
 Down

Stairs

NO STAIRS IN STAIRWELL



- few inches of clearance on 2nd fl in hall to ceiling



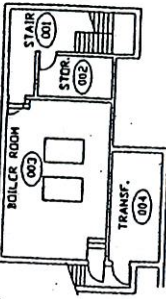
Irving
Second Floor

BRADLEY SCHOOL

Legend
 Floor tile w/ associated mesh

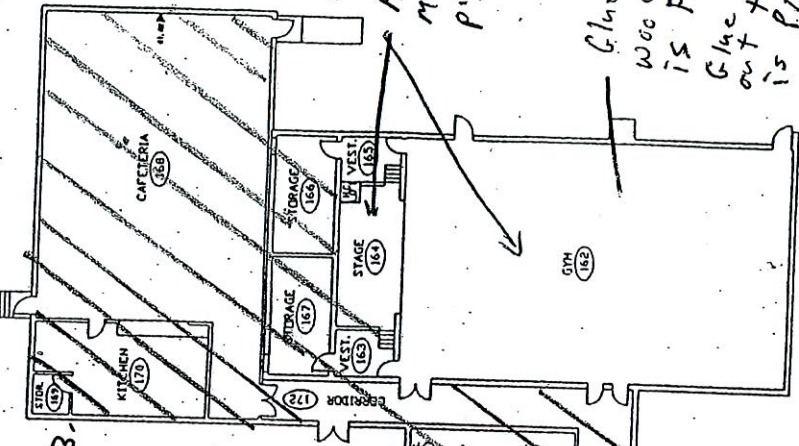
- Mudded Pipe fittings are located above ceiling tile in hallways, are in the Gym end at the stage area.
- ceramic wall and Floor tile addresses are PACM.
- Blackboard glue dabs are PACM
- caulk at Front entry is ACM
- Roof Flashing / fan sealants is PACM
- HUAC Flex connectors are ACM
- see Table II-3.

Boiler room (001), STAIR (001), STOR (002), TRANSF. (003)



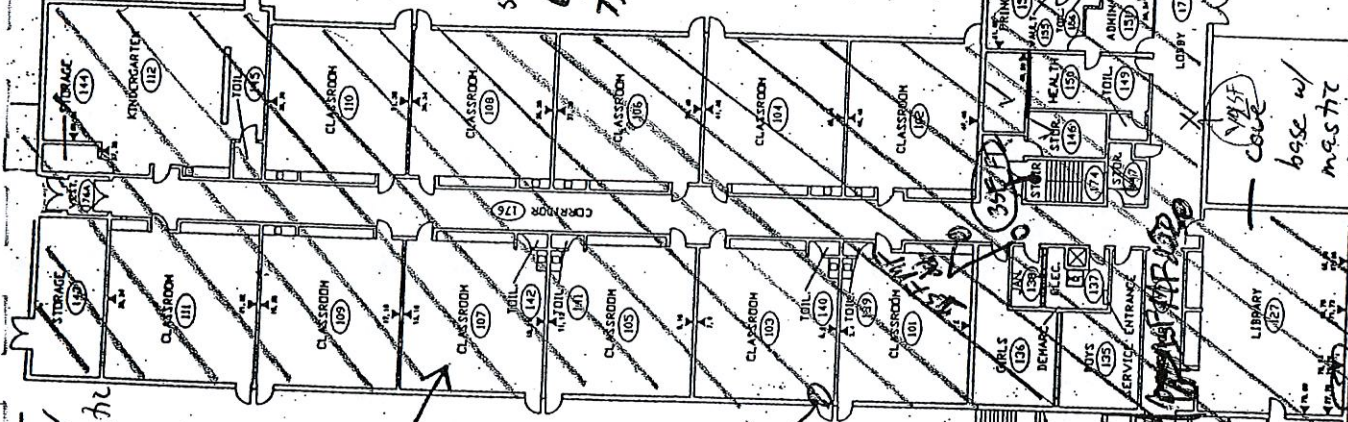
BASEMENT FLOOR PLAN
 SCALE: 3/32" = 1'-0"

- Roof Flashing / fan sealants is PACM
- HUAC Flex connectors are ACM
- see Table II-3.



ACM
 Mudded pipe fittings

Glue under wood floor is PACM
 Glue on pull out table top is PACM



Sp. Ed. Classroom Gr 1-4

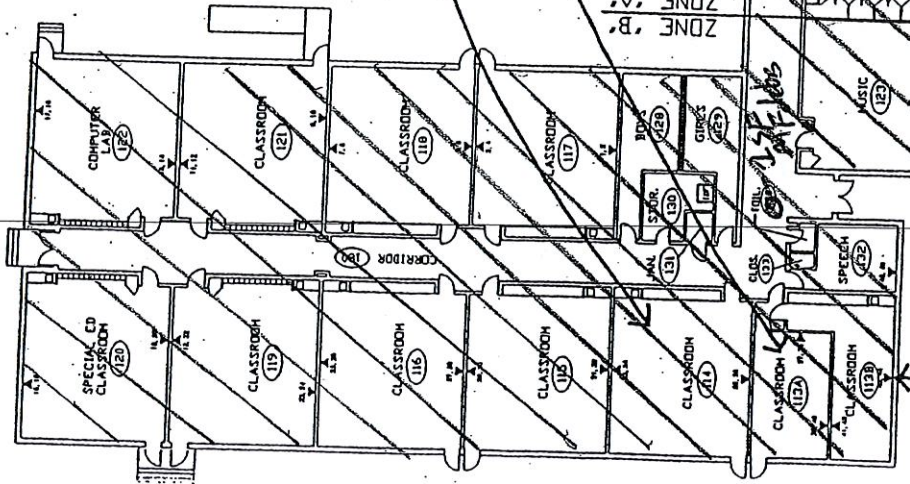
Sp. Ed. Classroom Gr 5-6

Resource Room Gr k-6

School Psychog. office

Social Worker's office when Art not scheduled
 residual glue in library

base w/ mesh is ACM in library



DTI classroom

FIRST FLOOR PLAN
 SCALE: 3/32" = 1'-0"

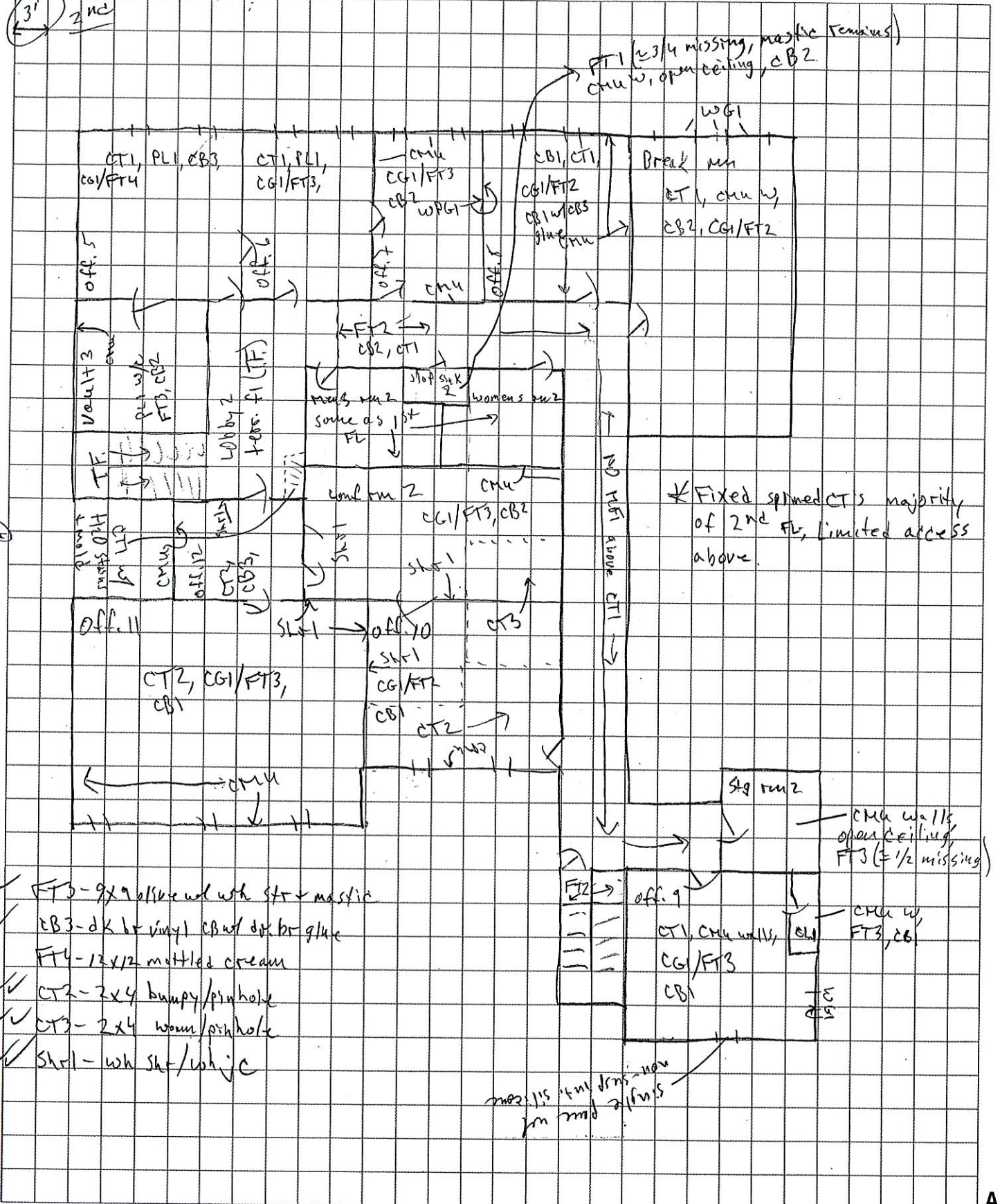


SUBJECT _____

3' 2nd

← 5th St →

A



- ✓ FT3 - 9x9 olive w/ w/ sh + mastic
- ✓ CB3 - dk br vinyl CB w/ dk br glue
- ✓ FT4 - 12x12 mottled cream
- ✓ CT2 - 2x4 bumpy/pinhole
- ✓ CT3 - 2x4 w/ w/ pinhole
- ✓ Shel - wh sh/wh jc

A



SUBJECT Derby Bldg, 35 5th St, Derby, CT

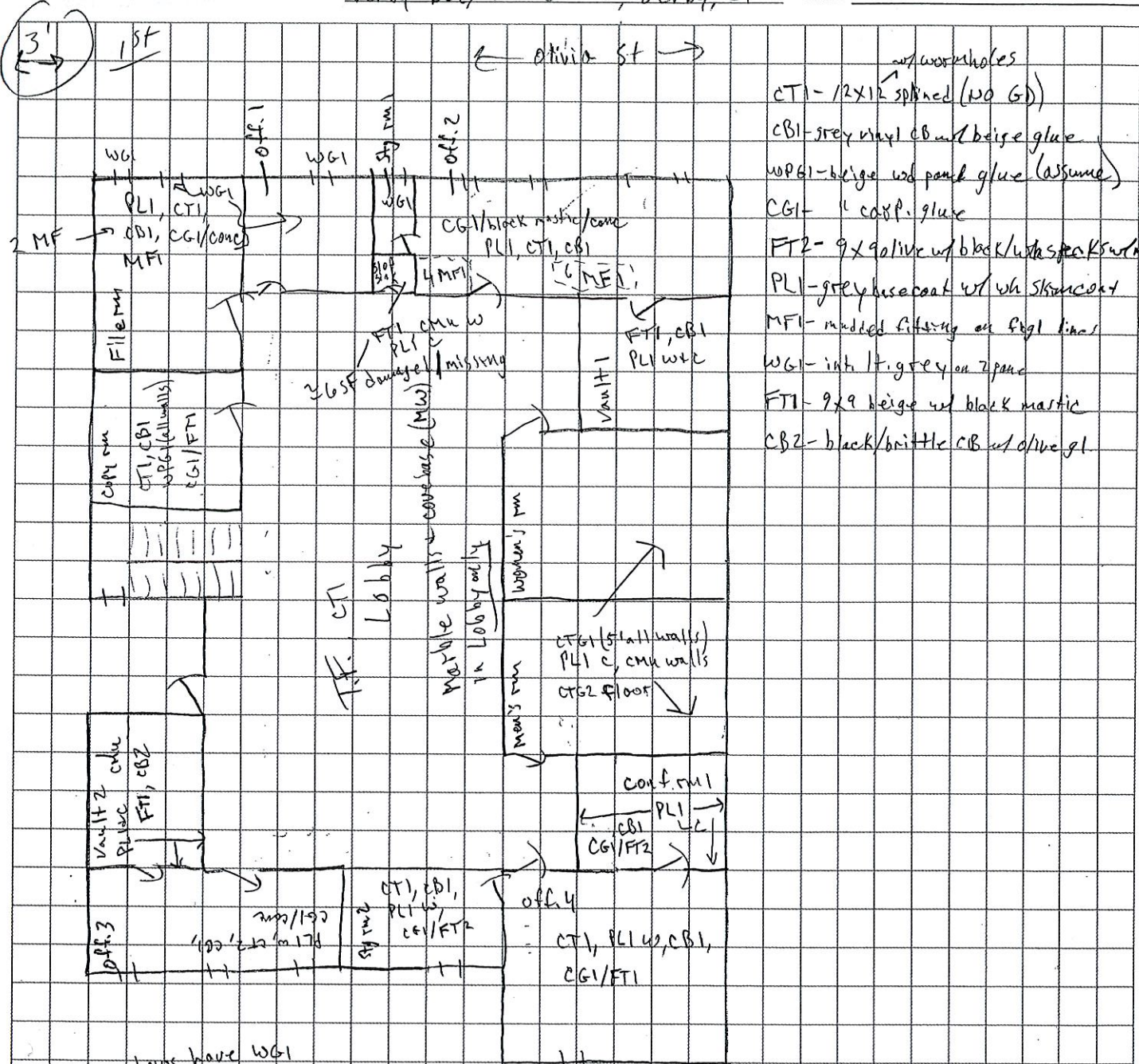
SHEET NO. 1 OF 2

PROJECT NO.

DATE 9/10/10

BY TZA

CHK'D



- CT1 - 12x12 spined (w/ G)
- CBI - grey vinyl CB w/ beige glue
- WGI - beige w/ panel glue (assumed)
- CG1 - " comp. glue
- FT2 - 9x9 tile w/ black/white speckles w/ mast
- PL1 - grey base coat w/ wh skid coat
- MF1 - mudded finishing on flag lines
- WGI - int. lt. grey on 2 pane
- FT1 - 9x9 beige w/ black mastic
- CB2 - black/brittle CB w/ olive gl

* all windows have WGI unless noted.

← 5th St →

3' 1st

← Olivia St →

APPENDIX C

ASBESTOS BULK SAMPLE CHAIN OF CUSTODIES

(Bulk Samples Were Not Collected During The 2015 Reinspections)

APPENDIX D

PLM BULK SAMPLE ANALYSIS REPORTS

(Bulk Samples Were Not Collected During The 2015 Reinspections)

APPENDIX E

TEM BULK SAMPLE ANALYSIS REPORTS

(Bulk Samples Were Not Collected During The 2015 Reinspections)

APPENDIX F

LETTER CONFIRMING THAT BUILDING RENOVATION
MATERIALS AT THE IRVING AND BRADLEY SCHOOLS DID
NOT CONTAIN ASBESTOS

DERBY PUBLIC SCHOOLS

8 Nutmeg Ave., P.O. Box 373 • Derby, CT 06418 • Tel. 735-8701 • Fax 735-8703

Dr. Nathan Chesler
Superintendent of Schools

Lois O. Caprio
Director of Instruction

Wendy Gaynor • 734-3384
Director of Special Services

William J. Duggan • 734-9209
Transportation Coordinator

May 1, 1995

Lesley Giovanelli, Environmental Sanitarian II
Asbestos Program
Environmental Health Services Division
State of Connecticut
Hartford, CT

Dear Ms. Giovanelli:

Enclosed, please find a copy of letter sent to me by
DeCarlo & Doll for your information.

Sincerely,



Dr. Nathan Chesler
Superintendent of Schools

cc: George Elliott



DeCarlo & Doll, Inc.

April 28 ,1995

Derby Public Schools
P.O. Box 373
Derby, CT 06418

Attn: Dr. Nathan Chesler, Superintendent of Schools

RE: Renovations and Alterations to
Bradley and Irving Schools
DD 51007.60


Dear Dr. Chesler:

As requested, this is to confirm that asbestos materials or products were not specified for the above referenced project.

If you have any questions, please do not hesitate to call.

Very truly yours,

DeCARLO & DOLL, INC.



James M. Crofts

cc: Strack
File

JMC/rhf/51007

APPENDIX G

SCHOOL NOTICE TO SHORT TERM WORKERS FORM

