



**A.C.T. Center
Asbestos Survey Report**



December 2014

Prepared For: City Of Saskatoon- Infrastructure Services Department
3130 Laurier Drive, Saskatoon, SK.
Attn: Brent Anderson

Prepared By: Bersch & Associates Ltd.
Project No. : B67SRL16

1.0 EXECUTIVE SUMMARY

The survey of the A.C.T. Center located at 107 105th Street in Saskatoon, Saskatchewan entailed the inspection of all accessible suspect asbestos containing material (ACM) located throughout the facility. Materials inspected included mechanical insulating material, vinyl floor covering, plaster material, drywall mud compound, roof drain pipe, ceiling tile and gasket material.

Bulk sample analysis results indicate the presence of “Chrysotile” and “Actinolite/Tremolite” asbestos within the A.C.T. Center located in Saskatoon, SK. Please refer to **Appendix I for Bulk Sample Analysis** results. The recommended actions to be implemented in reference to the ACM identified are Cleanup, Removal and Management. Please refer to section 5 Asbestos Abatement Discussion for definitions. It should be noted that the recommendation of “Management” as part of the asbestos action plan is based upon the premise that renovations are not scheduled throughout the area that would impact the asbestos containing material present. ***Prior to any major renovation/demolition activity, a destructive investigation is recommended to identify any inaccessible ACM that is physically concealed or isolated in areas such as enclosed wall/ceiling/floor cavities and pipe chases. Further testing of drywall mud compound may also be required prior to renovation.*** Asbestos was detected in the following forms throughout the facility:

- **Vinyl Asbestos Floor Tile** is located in Rooms L29, H30, 206 and 207. The Asbestos Floor Tile is identified on the **Floor Plans** in **Appendix III** of this report.
- **Fire-Stop Material** is located at pipe penetrations into walls within rooms L31, F39, F46, F46.1 and F46.2. The Fire-Stop Material has been identified with a “red” dot of paint.
- **Transite Roof Drain Pipe** is located within 202 Mechanical Room and H22 Mezzanine. Where accessible the Transite Drain Pipe has been identified with an “ASBESTOS” stencil.
- **Vermiculite Loose Fill Insulation** was found on the floor of F49.1 and F46.2. It is suspect that vermiculite insulation is located within the block walls of the facility. ***Consider all block walls of the facility as containing asbestos loose fill insulation.*** Further testing will be required prior to any renovation activity which involves altering the block wall structure.

Throughout the survey of the A.C.T. Center the Asbestos Containing Materials were assessed and given a Priority Rating of One, Two or Three, with Priority One being the items requiring the most immediate attention. See the **Survey Spreadsheet Database** in **Appendix II** for a room-by-room account.

Bersch & Associates Ltd. implemented the use of doorjamb labels that are applied to all the doorjambs of the rooms containing asbestos within the facility. This permits anyone accessing the room to easily identify the ACM present without having to reference the written report. Legends providing explanation of the abbreviations used on doorjambs were placed on the Bersch & Associates Ltd. 2014

backside of all maintenance/custodial doors within the facility. Employees and contractors will use the legend as a reference to identify ACM within the areas they are working.

2.0 INTRODUCTION

Bersch & Associates Ltd. was retained by the City of Saskatoon to conduct an Asbestos Survey and Hazard Assessment of the A.C.T. Center located in Saskatoon, SK. The survey entailed the inspection of all accessible areas of the facility; including ceiling spaces and pipe chases. The purpose of the survey was to locate, identify and assess the condition of all Asbestos Containing Materials (ACM) located throughout the facility. This report gives a detailed account of the inspection results and our firm's recommendations on control options to be implemented to bring the facility in compliance with the Province of Saskatchewan Occupational Health and Safety Act and Regulations. Bersch & Associates Ltd. conducted the survey in December 2014. A review of this report shall be conducted with all trades that are entering the facility to perform maintenance or renovation activity. This will ensure they are familiar with the types and locations of asbestos-containing materials present and prevent any uncontrolled disturbance and/or possible exposure to asbestos.

3.0 METHODOLOGY

Bersch & Associates Ltd. conducted the survey of the A.C.T. Center in Saskatoon, SK in December of 2014. The primary documents for guidance and criteria in this survey were the Province of Saskatchewan "Occupational Health and Safety Act and Regulations, 1996", Province of Saskatchewan "Managing Asbestos", and the U.S. Environmental Protection Agency "Guidance for Controlling Asbestos Containing Materials in Buildings". The USEPA document identifies factors associated with the "condition" and the "potential for disturbance or erosion" of asbestos containing materials (ACM). These factors help to determine potential for exposure to ACM and were used to make a qualitative evaluation of the material. It should be noted that the recommendation of "Management" Asbestos Abatement Action is based upon the premise that renovations are not scheduled in that area that will require disturbing or violating the asbestos containing material. In the event that renovations are scheduled that impact upon the areas of asbestos containing material then pre-removal of the asbestos containing materials may be necessary.

In total, thirty-three (33) bulk samples of suspect asbestos-containing materials were collected throughout the facility. Chrysotile, Actinolite and Tremolite asbestos was identified within the samples collected. Refer to Appendix I for a copy of the Bulk Sample Analysis Report. All bulk samples collected were analyzed by Bersch & Associates Ltd. laboratory in accordance with the current USEPA 600/R- 93/116 Method for the analysis of asbestos in building materials using polarized light microscopy and dispersion staining techniques. The detection limit of this method is listed as <1% by volume.

4.0 RECOMMENDATIONS:

Throughout the survey of the A.C.T. Center the Asbestos Containing Materials were assessed and given a Priority Rating of One, Two or Three, with Priority One being the items requiring the most immediate attention. As a result, "Priority One" items were identified within the Electrical Room 46.2 of the facility. Future planning should begin to address these areas as per the recommendations provided in the attached **Asbestos Survey Database found in Appendix II**. Priority Ratings for all other ACM identified is also found in the database on a room-by-room account. Further destructive testing for vermiculite insulation will be required prior to any renovation activity which involves altering the block wall structure.

5.0 ASBESTOS ABATEMENT DISCUSSION

Asbestos is a known carcinogen and is listed in the Province of Saskatchewan under the Occupational Health and Safety Appendix, Part V as a Hazardous Chemical Substance and any release of asbestos fibres into the atmosphere creates a potential health hazard. Although the mechanism and epidemiology of asbestos carcinogenesis is not yet well defined, accumulating evidence suggests the significance of exposure at even very low fibre concentrations and hence human exposure should be kept to a minimum. It should be noted however that asbestos is a natural mineral and a measurable background concentration can be detected in any location sampled (inside buildings, outside buildings, urban, rural, etc.). The recommendations of the report are therefore intended to keep the potential exposure to an absolute minimum with the knowledge that a zero exposure is not possible.

Asbestos containing materials have been used in a wide variety of applications. Of particular concern, is the group of so called friable products. A friable product is one that can be crumbled or reduced to powder or smaller fragments by hand pressure. Publications from the U.S.E.P.A. as early as 1977 have indicated the potential hazard of asbestos exposure in buildings containing these friable products. The two main uses of friable asbestos products are as spray insulation (thermal, acoustic or fireproofing) on deck and/or beams or as thermal insulation on piping or mechanical equipment. A large amount of non-friable asbestos-containing materials have also been used in building construction such as asbestos cement board and asbestos containing vinyl flooring.

The mere presence of a friable asbestos containing material does not imply that there is an actual presence of elevated airborne fibre. As numerous studies have indicated, elevated asbestos fibre levels are generally found when settled dust or the actual asbestos containing material itself is disturbed by maintenance, renovation, inadvertent contact or vibration. The factors considered in the Environmental Protection Agency (USEPA) exposure assessment (condition of material, water damage, activity, movement, exposed surface area, accessibility, friability and presence in an air stream) often give some indication of the likelihood of fibre release but are not in any way definitive in determining whether a hazard exists or not. That is, even if the most friable product exists in a building, elevated fibre levels will not likely occur unless there is some disturbance by physical contact, vibration or an air stream.

There are four possible approaches to control exposure to airborne asbestos once a friable material is identified in a building. These methods briefly are as follows:

- A) **Removal** - Asbestos material is removed and disposed of by burial and replaced by non-asbestos materials.
- B) **Encapsulation** - Asbestos material is coated with a bridging or penetrating sealant.
- C) **Enclosure** - Asbestos containing materials are separated from the building environment by barriers such as suspended ceilings or cladding materials.
- D) **Deferred Action or Management and Custodial Control** - The Province of Saskatchewan Human Resources, Labor and Employment Branch under the Occupational health and Safety Regulations publish a document outlining “The Management of Asbestos”. In the guide for compliance, an action plan is outlined for management of the asbestos materials identified and in summary is:
 1. Identification, which has been accomplished by this report.
 2. Development of Written Handling Procedures for maintenance personnel or often arrangements are made for a qualified contractor to conduct the necessary removal or spot maintenance prior to the regular staff conducting maintenance.
 3. Asbestos Abatement Awareness and Process Training if the regular maintenance personnel are required to conduct asbestos related activities.
 4. Inspection on regular basis is conducted to determine the ongoing condition of the material. Sask. Occupational Health & Safety Regulations require an “annual” inspection of all “friable” asbestos materials by a competent person.

In the event renovations or maintenance is performed within areas containing asbestos materials, written procedures must be developed to conduct the activity or prior removal if the situation warrants.

6.0 REFERENCES

- .1 Province of Saskatchewan "The Occupational Health and Safety Act and The Occupational Health and Safety Regulations" Office Consolidation, December 1996.
- .2 Province of Saskatchewan Human Resources, Labor, and Employment "The Management of Asbestos" January, 1991.
- .3 USEPA, 1985. U.S. Environmental Protection Agency, "Guidance for Controlling Asbestos-Containing Materials in Buildings". Washington, DC: Office of Toxic Substances, USEPA.
- .4 Midwest Centre for Occupational Health & Safety St. Paul's, Minnesota – Asbestos Training For Inspectors & Management Planners
- .5 McCrone Research Institute Course Hayward California " Asbestos Identification"
- .6 Environment Management and Protection Act, Saskatchewan Environment, October 2002
- .7 Hazardous Substances and waste Dangerous Goods Regulations, Saskatchewan Environment, April 1989

APPENDIX I

BULK SAMPLE ANALYSIS REPORT

BERSCH & ASSOCIATES LTD.

December 30, 2014

City Of Saskatoon
Infrastructure Services Department
3130 Laurier Drive
Saskatoon, Sk.
S7L 5J7

ATTENTION: Brent Anderson

SUBJECT: Bulk Sample Analysis Report

Please find attached the laboratory results for the bulk analysis of the samples collected throughout the A.C.T. Center located at 107 105th Street in Saskatoon, SK. The samples were analyzed in our laboratory for the identification of asbestos.

The results for the bulk samples were obtained by examination in accordance with the current USEPA 600/R-93/116 Method for the analysis of asbestos in building materials using polarized light microscopy and dispersion staining techniques. The detection limit of this method is listed as less than 1% by volume.

The results for the vermiculite bulk samples were obtained by examination in accordance with the EPA 600/R-93/116 method for 0.1% target analytical sensitivity using analytical electron microscopy. The detection limit for this analytical method is listed as greater than 0.1% amphibole asbestos.

This test report relates only to the materials sent for examination and any use or extension of the information by the client of these results is the responsibility of the client. If any questions arise on the results of the attached information please contact me at 306 222 7477. Thank you for this opportunity of service!

Sincerely,

Brad Berschiminsky
Bersch & Associates Ltd.
File: B67BLL16

Bersch & Associates Ltd.

B67BAL16

Box 3568

Humboldt, Sask. S0K 2A0

BULK SAMPLE ANALYSIS REPORT**PROJECT NO. B67.14****CLIENT: City of Saskatoon****Infrastructure Services - Facilities Branch****Contact: Brent Anderson****Location: A.C.T Center - 107 105th Street East, Saskatoon, SK.**

NO.	DATE	SAMPLE INFORMATION	ASBESTOS	%	ANALYST
1	17-May-13	L30 - Small Pipeline Fitting Adjacent South Wall	None Detected		WB
2	17-May-13	L31 - Small Pipeline Fitting On Overhead Blue Line Adjacent North Wall	None Detected		WB
3	17-May-13	L31 - Mud Compound Beneath Canvass On Large Overhead Hot Water Tank Adjacent L30 Entry	None Detected		WB
4	17-May-13	202 - Pipeline Fitting On Small Line And Mud Compound On Top Of Large Tank Adjacent Entry	None Detected		WB
5	17-May-13	202 - Transite Pipe At Overhead Roof Drain In Southeast Corner	Chrysotile	40	WB
6	16-Dec-14	203 - Insulation In Roof Decking Flutes	None Detected		WB
7	16-Dec-14	206 - 12" x 12" Floor Tile, 3 Tone Brown Brush Marks	None Detected		WB

Bersch & Associates Ltd.

B67BAL16

Box 3568

Humboldt, Sask. S0K 2A0

BULK SAMPLE ANALYSIS REPORT**PROJECT NO. B67.14****CLIENT: City of Saskatoon****Infrastructure Services - Facilities Branch****Contact: Brent Anderson****Location: A.C.T Center - 107 105th Street East, Saskatoon, SK.**

NO.	DATE	SAMPLE INFORMATION	ASBESTOS	%	ANALYST
8	16-Dec-14	209 - 12" x 12" Floor Tile, Lighter 3 Tone Brown Brush Marks	None Detected		WB
9	16-Dec-14	207 - 12" x 12" Floor Tile, Gray With Small Spec	Chrysotile	1 to 5	WB
10	16-Dec-14	206 - 12" x 12" Floor Tile, Off White With Brown Streak	Chrysotile	1 to 5	WB
11	16-Dec-14	206 - 2' x 4' Ceiling Tile With Pin Hole And Slash Marks	None Detected		WB
12	16-Dec-14	F36 - Lineal Insulation On Small Overhead Pipeline Adjacent F52	None Detected		WB
13	16-Dec-14	F36 - Cement Parging At Overhead Pipe Penetration Into F52	None Detected		WB
14	16-Dec-14	F49 - Lineal Insulation On Small Pipeline Overhead Adjacent Furnace	None Detected		WB

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BULK SAMPLE ANALYSIS REPORT**PROJECT NO. B67.14****CLIENT: City of Saskatoon****Infrastructure Services - Facilities Branch****Contact: Brent Anderson****Location: A.C.T Center - 107 105th Street East, Saskatoon, SK.**

NO.	DATE	SAMPLE INFORMATION	ASBESTOS	%	ANALYST
15	16-Dec-14	F49 - Fire-Stop Material At Pipe Penetration Into North Wall	None Detected		WB
16	16-Dec-14	F49 - Green Expansion Gasket On Overhead Fan Unit	None Detected		WB
17	16-Dec-14	F49.1 - Vermiculite Insulation Found On Floor Adjacent North Wall	Actinolite/ Tremolite	>0.1	WB
18	16-Dec-14	F39 - Black Composite Hockey Flooring Throughout The Corridor	None Detected		WB
19	16-Dec-14	F48 - Sheet Flooring, Gray With Blue, White And Black Spec	None Detected		WB
20	16-Dec-14	F46.2 - Vermiculite Insulation Adjacent East Wall Below Transformer	Actinolite/ Tremolite	>0.1	WB
21	16-Dec-14	F46.2 - Fire-Stop Material At Overhead Electrical Penetration Into West Wall	Chrysotile	60	WB

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NO.	DATE	SAMPLE INFORMATION	ASBESTOS	%	ANALYST
22	16-Dec-14	L31 - Lineal Insulation On Medium Line Above Storage Tank In Southwest Corner	None Detected		WB
23	16-Dec-14	L31 - Blue CIMCO Chiller Vessel	None Detected		WB
24	16-Dec-14	L31 - Insulation Beneath Metal Cladding On Large Line Adjacent Pump ACT-P5	None Detected		WB
25	16-Dec-14	L31 - Insulation Beneath Cladding On "Brine Return" Line	None Detected		WB
26	16-Dec-14	L32 - Drywall Mud Compound On Ceiling Adjacent Entry Into L31	None Detected		WB
27	16-Dec-14	L29 - 12" x 12" Floor Tile, Black With White Marking	Chrysotile	1 to 5	WB
28	16-Dec-14	H27a - Bulletin Board	None Detected		WB

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NO.	DATE	SAMPLE INFORMATION	ASBESTOS	%	ANALYST
29	16-Dec-14	H8 - Lineal Pipeline Insulation In Access Hatch Adjacent Shower	None Detected		WB
30	16-Dec-14	H9 - Floor Matting, 4' x 4'	None Detected		WB
31	16-Dec-14	H22 Mezzanine - Drywall Mud Compound From East Wall On Upper Mezzanine Above Change Rooms	None Detected		WB
32	16-Dec-14	202 - Duct Expansion Gasket	None Detected		WB
33	16-Dec-14	202 - Mud Compound Beneath Canvass On Large White Tank Adjacent Entry	None Detected		WB

APPENDIX II

ASBESTOS SURVEY DATABASE

A.C.T. Center			Bersch Associates Ltd.													
			SAMPLE DATA													
Floor	Room Number	Use	SAMPLE	Sample	Date	Asbestos	% of	Tradename			Description of	Asbestos Content	Potential for	Recommended		
			SAMPLE REP	ID	DD/MM/YY	Type	Asbestos	ACM Product	Condition	Priority	Sample Location	In Area	Disturbance	Action	Comments	
M	H7	Arena										No Accessible ACM				
M	H8	Official's Room	Sample	B67-ASB.29	16-Dec-14		None	Lineal Pipe Insulation			H8 - Lineal Pipeline Insulation In Access Hatch Adjacent Shower	No Accessible ACM				
M	H9	Men's Washroom	Sample	B67-ASB.30	16-Dec-14		None	Flooring Material			H9 - Floor Matting, 4' x 4'	No Accessible ACM				
M	H9.1	Storage										No Accessible ACM				
M	H10	Custodial										No Accessible ACM				
M	H11	Women's Washroom										No Accessible ACM				
M	H12	Dressing Room										No Accessible ACM				
M	H12.1	Washroom										No Accessible ACM				
M	H13	Dressing Room										No Accessible ACM				
M	H13.1	Washroom										No Accessible ACM				
M	H14	Dressing Room										No Accessible ACM				
M	H14.1	Washroom										No Accessible ACM				
M	H15	Dressing Room										No Accessible ACM				
M	H15.1	Washroom										No Accessible ACM				
M	H16	Skate Sharpening										No Accessible ACM				
M	H22	Hockey Rink										No Accessible ACM			Asbestos Drain Pipe may also be located above the inaccessible area above the Hockey Rink. Consider all roof drain pipe to be ACM.	
M	H22	Rink Mezzanine	Sample	B67-ASB.31	16-Dec-14		None	Drywall Mud Compound			H22 Mezzanine - Drywall Mud Compound From East Wall On Upper Mezzanine Above Change Rooms	Transite Pipe				
M	H22	Rink Mezzanine	Sample Rep	B67-ASB.5	17-May-13	Chrysotile	40%	Transite Pipe	Mod/Good	3	202 - Transite Pipe At Overhead Roof Drain In Southeast Corner	Transite Pipe	Low	Manage	Asbestos Drain Pipe may also be located above the inaccessible area above the Hockey Rink. Consider all roof drain pipe to be ACM.	
M	H22a	Storage										No Accessible ACM				
M	H23	Skate Sharpening										No Accessible ACM				
M	H24	Lobby										No Accessible ACM				
M	H25	Vestibule										No Accessible ACM				
M	H27a	Office	Sample	B67-ASB.28	16-Dec-14		None	Bulletin Board			H27a - Bulletin Board	No Accessible ACM				
M	H27b	Office										No Accessible ACM				
M	H28	Lobby										No Accessible ACM				
M	L29	Concession	Sample	B67-ASB.27	16-Dec-14	Chrysotile	1-5%	Vinyl Asbestos Tile	Moderate	2	L29 - 12" x 12" Floor Tile, Black With White Marking	Vinyl Asbestos Floor Tile	Low/Mod	Remove	Removal may be considered in the future due to wear and damages throughout the room.	
M	H30	Storage	Sample Rep	B67-ASB.27	16-Dec-14	Chrysotile	1-5%	Vinyl Asbestos Tile	Mod/Good	3	L29 - 12" x 12" Floor Tile, Black With White Marking	Vinyl Asbestos Floor Tile	Low	Manage		
M	L30	Storage	Sample	B67-ASB.1	17-May-13		None	Pipeline Fitting Compound			L30 - Small Pipeline Fitting Adjacent South Wall	No Accessible ACM				
M	L31	Ice Plant	Sample	B67-ASB.2	17-May-13		None	Pipeline Fitting Compound			L31 - Small pipeline fitting on overhead blue line adjacent north wall	Fire-Stop Material				
M	L31	Ice Plant	Sample	B67-ASB.3	17-May-13		None	Mud Compound			L31 - Mud Compound Beneath Canvass On Large Overhead Hot Water Tank Adjacent L30 Entry	Fire-Stop Material				
M	L31	Ice Plant	Sample	B67-ASB.22	16-Dec-14		None	Lineal Pipe Insulation			L31 - Lineal Insulation On Medium Line Above Storage Tank In Southwest Corner	Fire-Stop Material				
M	L31	Ice Plant	Sample	B67-ASB.23	16-Dec-14		None	Insulation			L31 - Blue CIMCO Chiller Vessel	Fire-Stop Material				

A.C.T. Center			Bersch Associates Ltd.													
			SAMPLE DATA													
Floor	Room Number	Use	SAMPLE REP	Sample ID	Date DD/MM/YY	Asbestos Type	% of Asbestos	Tradename ACM Product	Condition	Priority	Description of Sample Location	Asbestos Content In Area	Potential for Disturbance	Recommended Action	Comments	
M	L31	Ice Plant	Sample	B67-ASB.24	16-Dec-14		None	Lineal Pipe Insulation			L31 - Insulation Beneath Metal Cladding On Large Line Adjacent Pump ACT-P5	Fire-Stop Material				
M	L31	Ice Plant	Sample	B67-ASB.25	16-Dec-14		None	Lineal Pipe Insulation			L31 - Insulation Beneath Cladding On "Brine Return" Line	Fire-Stop Material				
M	L31	Ice Plant	Sample Rep	B67-ASB.21	16-Dec-14	Chrysotile	60%	Fire-Stop Material	Good	3	F46.2 - Fire-Stop Material At Overhead Electrical Penetration Into West Wall	Fire-Stop Material	Low/Mod	Manage	Fire-Stop Material is located at electrical penetration into wall.	
M	L32	Zamboni	Sample	B67-ASB.26	16-Dec-14		None	Drywall Mud Compound			L32 - Drywall Mud Compound On Ceiling Adjacent Entry Into L31	No Accessible ACM				
M	F26	Vestibule										No Accessible ACM				
M	F36	Corridor	Sample	B67-ASB.12	16-Dec-14		None	Lineal Pipe Insulation			F36 - Lineal Insulation On Small Overhead Pipeline Adjacent F52	No Accessible ACM				
M	F36	Corridor	Sample	B67-ASB.13	16-Dec-14		None	Parging Material			F36 - Cement Parging At Overhead Pipe Penetration Into F52	No Accessible ACM				
M	F37	Office										No Accessible ACM				
M	F38	Office										No Accessible ACM				
M	F39	Corridor	Sample	B67-ASB.18	16-Dec-14		None	Flooring Material			F39 - Black Composite Hockey Flooring Throughout The Corridor	Fire-Stop Material				
M	F39	Corridor	Sample Rep	B67-ASB.21	16-Dec-14	Chrysotile	60%	Fire-Stop Material	Good	3	F46.2 - Fire-Stop Material At Overhead Electrical Penetration Into West Wall	Fire-Stop Material	Low/Mod	Manage	The Fire-Stop Material is only located at electrical penetrations into the walls. The asbestos Fire-Stop Material on the west wall is located behind non-ACM fire-stop material.	
M	F40	Dressing Room										No Accessible ACM				
M	F40.1	Washroom										No Accessible ACM				
M	F41	Dressing Room										No Accessible ACM				
M	F41.1	Washroom										No Accessible ACM				
M	F42	Dressing Room										No Accessible ACM				
M	F43	Washroom										No Accessible ACM				
M	F44	Dressing Room										No Accessible ACM				
M	F45	Washroom										No Accessible ACM				
M	F46	Music Room	Sample Rep	B67-ASB.21	16-Dec-14	Chrysotile	60%	Fire-Stop Material	Good	3	F46.2 - Fire-Stop Material At Overhead Electrical Penetration Into West Wall	Fire-Stop Material	Low/Mod	Manage		
M	F46.1	Judges Room	Sample Rep	B67-ASB.21	16-Dec-14	Chrysotile	60%	Fire-Stop Material	Moderate	2	F46.2 - Fire-Stop Material At Overhead Electrical Penetration Into West Wall	Fire-Stop Material	Moderate	Repair/Remove	Some material is becoming dislodged above the entry door into the room. May consider removal in the future.	
M	F46.2	Electrical	Sample	B67-ASB.20	16-Dec-14	Actinolite/Tremolite	>0.1	Vermiculite Insulation	Poor	1	F46.2 - Vermiculite Insulation Adjacent East Wall Below Transformer	Fire-Stop Material, Vermiculite Block Wall Insulation	Mod/High	Cleanup/Manage	Vermiculite Insulation was found on the floor and electrical boxes which was suspected to have come from the block wall. The material should be cleaned up and all openings into the block wall should be sealed. Consider all block walls to contain vermiculite insulation.	
M	F46.2	Electrical	Sample	B67-ASB.21	16-Dec-14	Chrysotile	60%	Fire-Stop Material	Mod/Good	3	F46.2 - Fire-Stop Material At Overhead Electrical Penetration Into West Wall	Fire-Stop Material, Vermiculite Block Wall Insulation	Moderate	Manage		
M	F47	Pro Room										No Accessible ACM				
M	F48	Kitchen	Sample	B67-ASB.19	16-Dec-14		None	Vinyl Sheet Flooring			F48 - Sheet Flooring, Gray With Blue, White And Black Spec	No Accessible ACM				

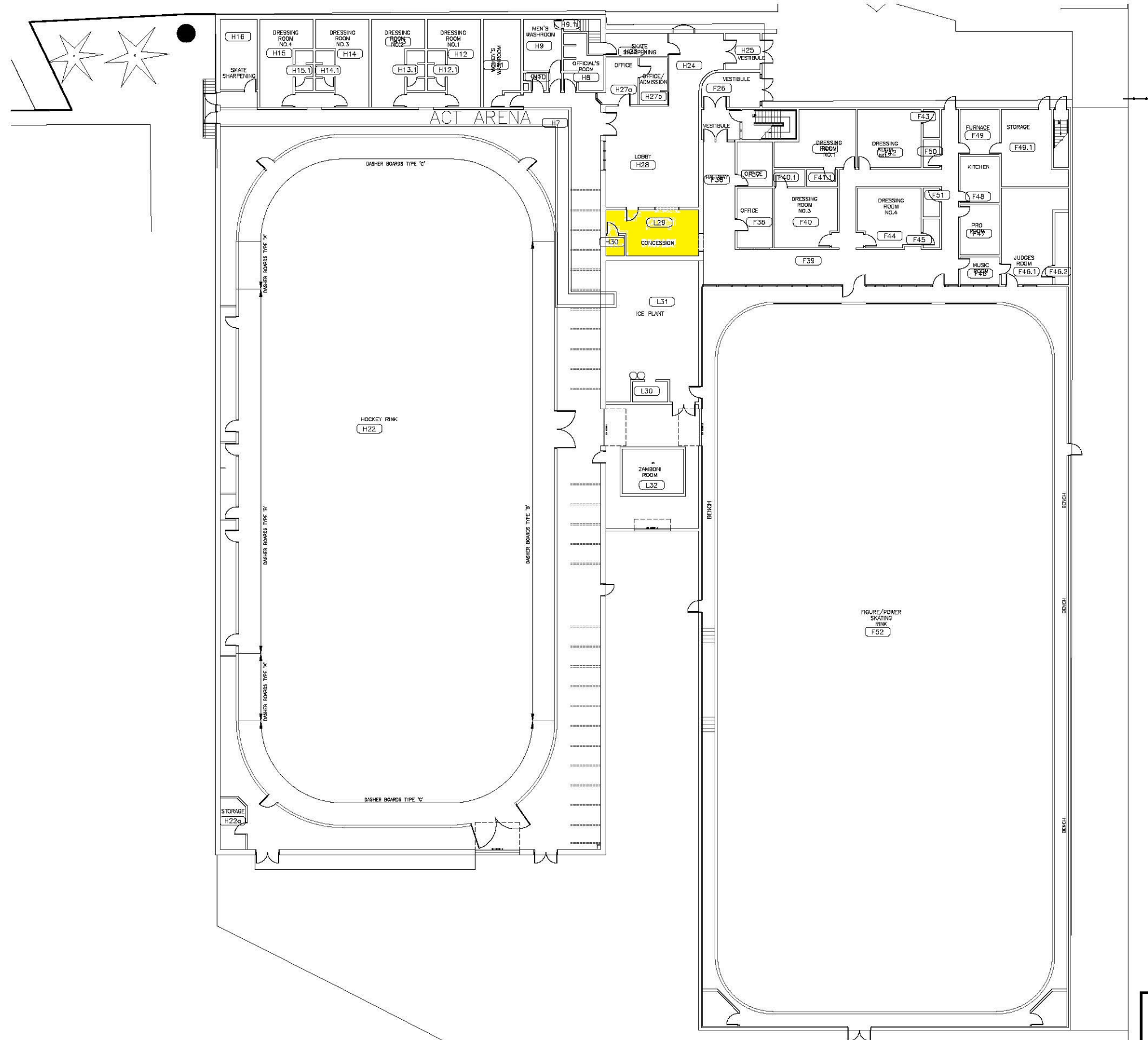
A.C.T. Center			Bersch Associates Ltd.													
			SAMPLE DATA													
Floor	Room Number	Use	SAMPLE REP	Sample ID	Date DD/MM/YY	Asbestos Type	% of Asbestos	Tradename ACM Product	Condition	Priority	Description of Sample Location	Asbestos Content In Area	Potential for Disturbance	Recommended Action	Comments	
M	F49	Furnace	Sample	B67-ASB.14	16-Dec-14		None	Lineal Pipe Insulation			F49 - Lineal Insulation On Small Pipeline Overhead Adjacent Furnace	No Accessible ACM				
M	F49	Furnace	Sample	B67-ASB.15	16-Dec-14		None	Fire-Stop Material			F49 - Fire-Stop Material At Pipe Penetration Into North Wall	No Accessible ACM				
M	F49	Furnace	Sample	B67-ASB.16	16-Dec-14		None	Gasket			F49 - Green Expansion Gasket On Overhead Fan Unit	No Accessible ACM				
M	F49.1	Storage	Sample	B67-ASB.17	16-Dec-14	Actinolite/ Tremolite	>0.1	Vermiculite Insulation	Mod/Good	3	F49.1 - Vermiculite Insulation Found On Floor Adjacent North Wall	Vermiculite Block Wall Insulation	Low	Manage	Vermiculite Insulation was found on the floor which was suspected to have come from the block wall. The material on the floor was collected for sampling. All openings into the wall should be sealed to insure the material is contained within the wall cavity. If more material appears further investigation may be required. Consider all block walls to contain vermiculite insulation.	
M	F50	Washroom										No Accessible ACM				
M	F51	Washroom										No Accessible ACM				
M	F52	Skating Rink										No Accessible ACM			Asbestos Drain Pipe may be located above the inaccessible area above the Skating Rink. Consider all roof drain pipe to be ACM.	
2	201	Stairwell										No Accessible ACM				
2	202	Mechanical	Sample	B67-ASB.4	17-May-13		None	Pipeline Fitting Compound			202 - Pipeline Fitting On Small Line And Mud Compound On Top Of Large Tank Adjacent Entry	Transite Pipe				
2	202	Mechanical	Sample	B67-ASB.5	17-May-13	Chrysotile	40%	Transite Pipe	Mod/Good	3	202 - Transite Pipe At Overhead Roof Drain In Southeast Corner	Transite Pipe	Low	Manage	The Transite Pipe was inaccessible to identify with a stencil. Consider all roof drain pipe to be ACM.	
2	202	Mechanical	Sample	B67-ASB.32	16-Dec-14		None	Gasket			202 - Duct Expansion Gasket	Transite Pipe				
2	202	Mechanical	Sample	B67-ASB.33	16-Dec-14		None	Mud Compound			202 - Mud Compound Beneath Canvass On Large White Tank Adjacent Entry	Transite Pipe				
2	203	Storage	Sample	B67-ASB.6	16-Dec-14		None	Insulation			203 - Insulation In Roof Decking Flutes	No Accessible ACM				
2	204	Stairwell										No Accessible ACM				
2	205	Storage										No Accessible ACM				
2	206	Common Area	Sample	B67-ASB.7	16-Dec-14		None	Floor tile			206 - 12" x 12" Floor Tile, 3 Tone Brown Brush Marks	Vinyl Asbestos Floor Tile				
2	206	Common Area	Sample	B67-ASB.10	16-Dec-14	Chrysotile	1-5%	Vinyl Asbestos Tile	Good	3	206 - 12" x 12" Floor Tile, Off White With Brown Streak	Vinyl Asbestos Floor Tile	Low	Manage		
2	206	Common Area	Sample	B67-ASB.11	16-Dec-14		None	Ceiling Tiles			206 - 2' x 4' Ceiling Tile With Pin Hole And Slash Marks	Vinyl Asbestos Floor Tile				
2	207	Bar	Sample	B67-ASB.9	16-Dec-14	Chrysotile	1-5%	Vinyl Asbestos Tile	Mod/Good	3	207 - 12" x 12" Floor Tile, Gray With Small Spec	Vinyl Asbestos Floor Tile	Low	Manage		
2	208	Storage										No Accessible ACM				
2	209	Washroom	Sample	B67-ASB.8	16-Dec-14		None	Floor tile			209 - 12" x 12" Floor Tile, Lighter 3 Tone Brown Brush Marks	No Accessible ACM				
2	210	Washroom										No Accessible ACM				


APPENDIX III

FLOOR PLANS

GENERAL NOTES:

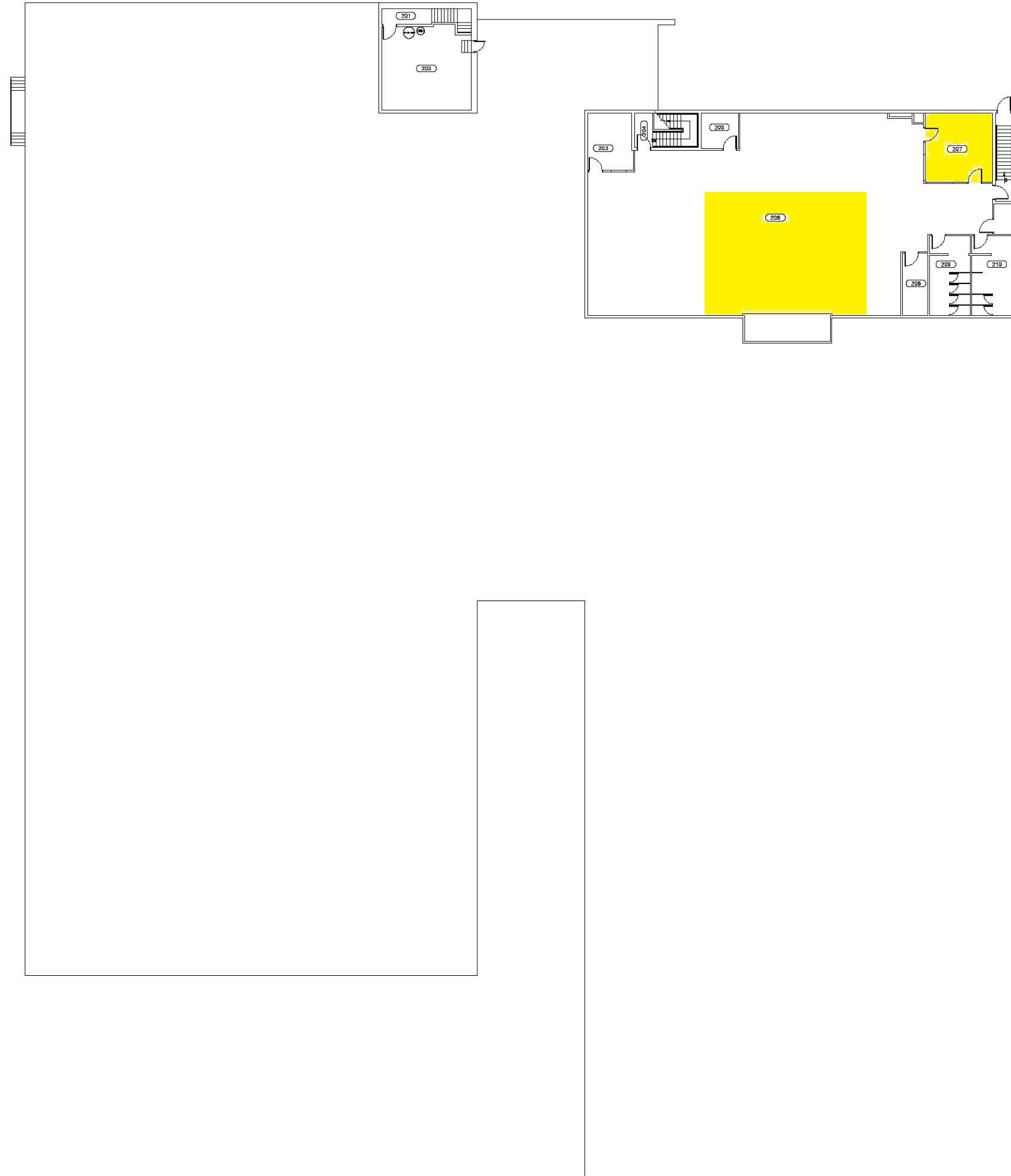
1. All dimensions are in millimetres
2. Drawings are not to be scaled.
3. All drawings to be read in conjunction with the specifications, unless otherwise noted.
4. Verify site conditions and location of all utilities prior to the start of construction.
5. Report all discrepancies to the Consultant.
6. If in doubt, ask.




KEY
 Vinyl Asbestos Floor Tile

REV	ISSUED FOR	DATE	
DESIGNED BY:	DRAWN BY:	CHECKED BY:	REQUESTED BY:
	JB/DH		
SCALE:	DATE:		
1:350 (11x17)	15/12/2004		
SHEET NAME		Asbuilt	
Main Floor Base Plan			
PROJECT TITLE			
639 ACT Arena			
PROJECT NO.	SHEET		
639			
REV. NO.			

- GENERAL NOTES:
1. All dimensions are in millimetres
 2. Drawings are not to be scaled.
 3. All drawings to be read in conjunction with the specifications, unless otherwise noted.
 4. Verify site conditions and location of all utilities prior to the start of construction.
 5. Report all discrepancies to the Consultant.
 6. If in doubt, ask.



KEY
 Vinyl Asbestos Floor Tile

REV	ISSUED FOR	DATE	
DESIGNED BY:	DRAWN BY:	CHECKED BY:	REQUESTED BY:
	JB/DH		
SCALE:	DATE:		
1:150	15/12/2004		
SHEET NAME		Asbuilt	
Second Floor Base Plan			
PROJECT TITLE			
639 ACT Arena			
PROJECT NO.	SHEET		
	REV. NO.		△