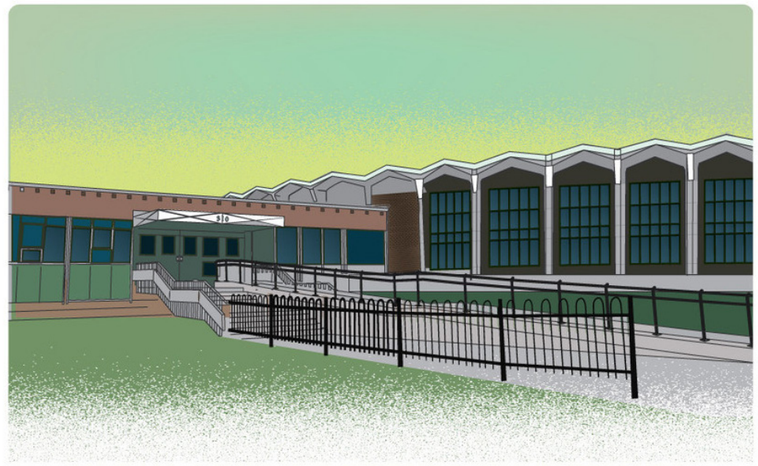
HAMILTON WENTWORTH DISTRICT SCHOOL BOARD
FEASIBILITY STUDY AND CONCEPT DESIGN

DUNDAS VALLEY SECONDARY SCHOOL
310 Governors Road, Hamilton, ON



MAY 18, 2016

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1. EXECUTIVE SUMMARY

1.1. Purpose

The purpose of this study is to examine the feasibility of a complete Building Renewal of all areas of the existing Dundas Valley Secondary School. The objective is to align the existing facility with the Board's vision for the revitalization and modernization of its complete secondary school portfolio and with its ***Secondary Program Strategy***. The study provides recommendations to the HWDSB to support their decision making process regarding the Board's ***Secondary School Revitalization Program***. Dundas Valley Secondary School requires significant upgrades and costly repairs to meet both curricular demands and day-to-day operations. Added to these retrofits are other critical and emerging issues of new curriculum and program delivery strategies, which need to be physically accommodated and resolved including: student engagement, wellness, universal design (accessibility); special education delivery for personalized learning; sustainability; and the integration of, and possibilities for, technological change to teaching and learning strategies.

Similar to most schools built in the 20th century, Dundas Valley Secondary School was designed to accommodate a very limited range of teaching and learning options associated with a standard classroom and does not address new curriculum directions, desired teaching and learning styles, and the infusion of technology required to deliver the initiatives for Student Success planned by the Board.

1.2. Methodology

The study included a comprehensive review of the existing facility in relation to current and projected enrolments; program delivery; operations and maintenance; and facility conditions. The five year recommendations for upgrades detailed in the ***2013 Building Condition Assessment***, prepared by VFA Inc., were analyzed and coordinated with the proposed program upgrades. A detailed review of the ***Asbestos Inventory, updated November 2015*** was undertaken to determine the scope and phasing of the required abatement and associated remediation work.

The ***Ontario Ministry of Education Secondary School Space Template*** was used to assess the number and size of existing program spaces in relation to the projected enrolment and the specific educational programs planned for this facility. The ***HWDSB Secondary Program Strategy*** provided information on the required educational programs to be accommodated at Dundas Valley. Tier 1 programs accommodate all students at all secondary schools. Tier 2 programs accommodate some students at some secondary schools. Tier 3 and Specialist High Skills Major programs require specialized facilities to accommodate few students at selected secondary schools only.

1.3. Overview

Dundas Valley Secondary School is located on a 16.6 acre site at 310 Governors Road, Dundas. The school was built in 1968 with an addition in 1986. A two storey gym and science room addition was completed in 2015. The east wing, a two storey classroom wing was also fully retrofit in 2015 including updated classrooms for student support programs. The school is a two storey masonry construction with partial basements. The 180,000 square foot facility includes selected specialty program areas: a single gym and a new double gym; cafeteria; manufacturing, construction and automotive shops; and communication technology.

1.4. Proposed Concept Design

The proposed plan accommodates the required educational space program and aligns with key educational principles and values envisioned by the Board. Improvements to existing program and support spaces are proposed to align the floor area and layouts with the provisions of the ***HWDSB Draft Secondary School Design Manual***.

Tier 3, Specialist High Skills Major and Intervention/Support programmes designated for Dundas Valley include: Arts, Culture and Digital Media; Manufacturing; Transportation; Extended Support; and Personalized Learning Support.

Arts, Culture and Digital Media

Students build a foundation of sector-focused knowledge and skills with a focus on areas such as dance or dramatic arts management; technical production; game design; graphics; costume and set decoration, etc.

Manufacturing

Manufacturing provides students with a strong foundation for a wide variety of careers in the manufacturing sector, from those focusing on the service, repair, and modification of machines and systems to those related to the organization and manufacturing services and mass-transit systems.

Transportation

Transportation Technology provides students a broad range of choices to explore diagnostic and computerized technology with an emphasis on modern automobiles, small engines, model building and other modes of transportation.

Extended Support

Students are provided with Intensive, continuous, and individualized support, in collaboration with parents and community partners in order to provide appropriate programming and transition to community supports.

Personalized Learning Support

Students are provided with an individualized educational alternative program for students who cannot learn in a regular school setting. Students remain connected to their home school.

The proposed renewal work includes required building improvements as detailed in the Building Condition Assessment completed in 2013; required upgrades to meet Ontario Building Code and accessibility standards; site upgrades to meet curriculum, social and municipal requirements; and program and support area upgrades.

The design responds to the current and future needs, unanticipated changes in pedagogy, curriculum, technology and learning expectations. Flexibility in curriculum delivery, based on personalized learning, supported by appropriate technologies and quality learning environments are the basis for the proposed upgrades.

2. EXISTING CONDITIONS ASSESSMENT

2.1. Introduction

A Building Condition Assessment was completed by VFA Inc for HWDSB in 2013. This document is included in the Appendix for reference. According to the VFA assessment the Comparable Facility Condition Index for Dundas Valley was 44.94% in 2013; the Official FCI was 23.49% which is ranked as Poor. The FCI is a ratio of the cost of deferred maintenance over the cost to replace the facility. A Poor FCI indicates that the facility is aged and worn with increasing deterioration. Component and equipment failure are expected; including potential occasional building shut-downs. Facility staff may often be diverted from regular maintenance to reactive mode. The FCI ratio has not been reassessed since the improvements included in the 2015 Addition and Renovation. Components of the existing building were upgraded which reduces the FCI.

Our assessment of the building conditions include a compilation of the items noted in the VFA report and our site observations from detailed on-site visual inspections of the building and grounds.

2.2. Site Assessment

Site Background: Dundas Valley Secondary School is located on a 16.6 acre site at 310 Governors Road. The main access to the school is from two parking lots to the east and west, both accessed from Governors Road. A playfield is located at the east portion of the site. The school is surrounded by single-family residential to the north and south and elementary schools to both the east and west.

Accessibility: New barrier free access ramps were constructed to provide access to the front door in 2015. The main entry doors are accessible and are provided with an automatic door opener. Two elevators provide access, one to two floors of the classroom wing, and a new elevator provides access to all three floor levels. Barrier free washrooms are provided. Classroom doors do not meet current standards for accessibility.

Parking and Service: The parking area are located to the east and west of the building. Service access is located to the west of the building off Governors Road. This area is used for garbage, loading and compounds for the technology shops. Access for servicing around the perimeter of the building is limited.

Pedestrian and Vehicular Circulation: Drop-off is accommodated off the main driveways. Students and staff share the same parking area. Pedestrian pathways to and through the site are limited.

Site Amenities: The site has a combined natural turf football/soccer field, with a minimal running track. There are no hard surface active play areas. There are minimal passive outdoor social spaces.

2.3. Building Condition

Architectural

- exterior walls: precast concrete wall panels – fair, exterior doors – fair, windows – poor, windows and curtainwall were replaced in classroom wing in 2015
- roof: conventional built-up roof with pea gravel topcoat - fair
- interior finishes:
  - floors: ceramic tile, vinyl asbestos tile and hardwood – fair, carpet – poor, terrazzo – repairs required
  - walls: painted masonry, plaster, gypsum, wall tiles: fair
  - ceilings: ACT – poor
  - cabinetry, millwork, washroom partitions, lockers: fair

2. EXISTING CONDITIONS ASSESSMENT

Structural

- metal roof deck, steel trusses, steel joists, load-bearing masonry

Mechanical

- heating: three gas fired hot water boilers for perimeter radiators, forced flow heaters, unit heaters and heating coils of the AHU's: updated in 2012
- heating: perimeter radiators: aged and in fair condition
- ventilation: eight air handling units provide heat and ventilation: seven of the eight are aged and in poor condition
- ventilation: unit ventilators: aged and in poor condition
- cooling: condenser units for cooling to coils of the AHU's, two RTU's and nine A/C window units: aged and in poor condition
- HVAC controls: major provided by pneumatic controls system with BAS for air handlers, boilers and water heaters: aged and in fair condition
- domestic hot water: two hot water heaters: installed in 2012
- plumbing fixtures: aged and in fair condition, washrooms in classroom wing were upgraded in 2015
- water distribution: concealed - anticipated wear is aged and in fair to poor condition
- gas supply system: within the building, aged but in good condition, outside the building, aged and in poor condition
- fire protection: fire extinguishers: poor
- fire protection: sprinklers – non existing

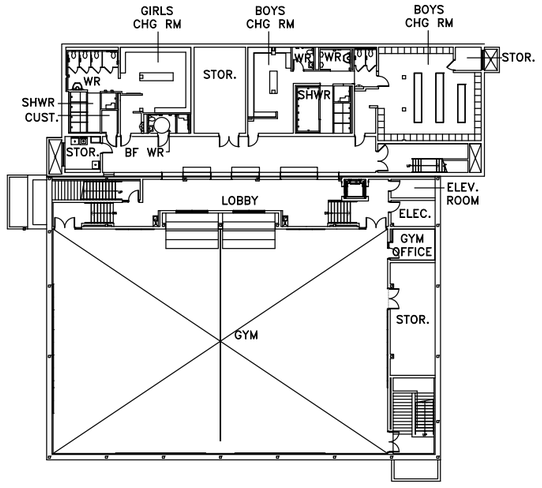
Electrical

- main switchgear: original 1968 equipment – switchboard, distribution panel, breaker, fuses and meters, branch wiring: aged and in fair condition
- fire alarm system: upgraded in 2015
- emergency lighting: updated 1998 includes battery pack units with ceiling and wall mounted light fixtures: updated emergency lighting in good condition (approx. 80%), older emergency lighting is aged and in poor condition
- lighting:
  - interior lighting:
  - exterior lighting: wall mounted HID (high intensity discharge) , incandescent pot lights and light standards: aged and in fair condition
- security system: installed 1986: aged and in fair condition
- PA system: upgrades required
- IT system: installed 2000 and includes switching, routing equipment and servers: aged and in fair condition
- dust collector: fair condition

2.4. Building Code Analysis

The building is classified as Group a Division 2 by the ***Ontario Building Code***. However, as it is not sprinklered and does not meet all the fire separation requirements of an A2 classification, it is considered non-conforming. Any renovations or alterations to the building will be subject to the provisions of Part 3 and Part 11 of the OBC. These OBC provisions set out different requirements depending on whether the renovations are considered ***Basic Renovation or Extensive Renovation.***

EXISTING FLOOR PLANS



BASEMENT

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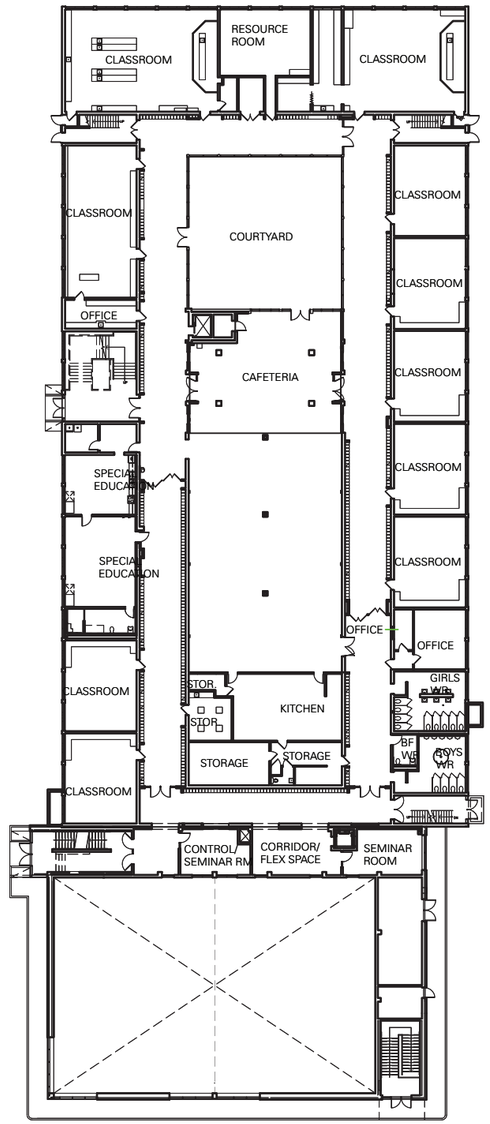
EXISTING FLOOR PLANS



FIRST FLOOR PLAN

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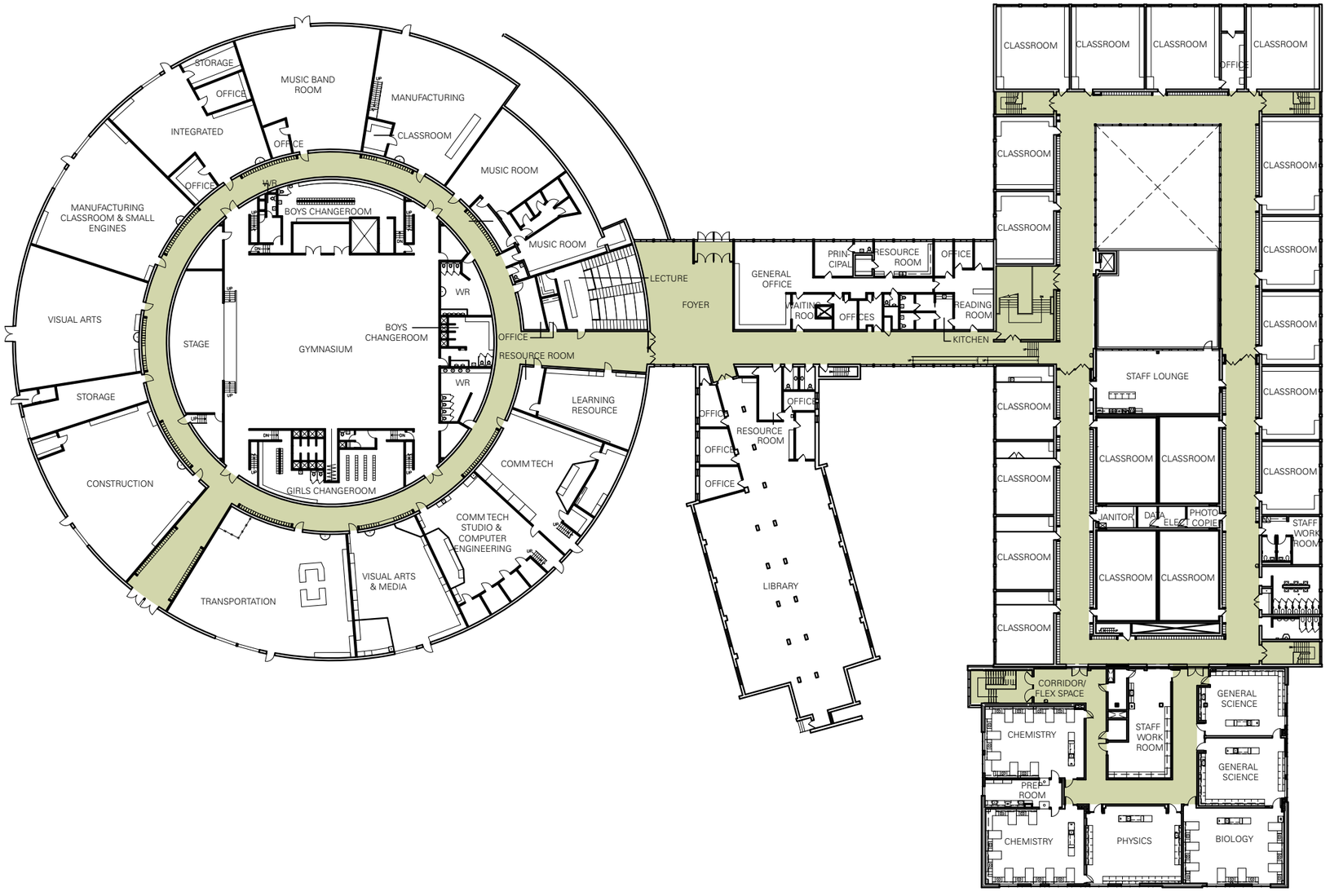
EXISTING FLOOR PLANS



SECOND FLOOR PLAN

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3. CONCEPT PLAN

3.1 Introduction

The proposed deep-retrofit and program upgrades to Dundas Valley Secondary School are based on a review and analysis of the following:

- HWDSB Secondary Program Strategy
- HWDSB Tier 3 Program and Specialist High Skills Major program requirements
- Ministry of Education Secondary School Space Template
- HWDSB Draft Secondary School Design Manual
- Existing and projected student enrolments
- Building Condition Report prepared by VFA Inc

3.2 Ministry of Education – Space Template Analysis

An analysis of the existing program areas and overall gross floor area in relation to the provisions of the *Ministry Space Template* for a school for 1,000 students identifies the following:

- the number of standard Classrooms is in line with the standard
- the number and floor area of Science rooms is in line with the Board standard
- the floor area of spaces dedicated to Music/Arts exceeds the standard
- the number and floor area of large Technology Labs exceeds the standard
- the floor area dedicated to Special Education and Resource areas is in line with the standard
- the Library is oversized for the current and projected student enrolment
- the Cafeteria is in line with the requirements for the current and projected student enrolment
- the General Office, Guidance and Student Services areas are undersized for the current and projected student enrolment
- the combined floor area of the Gymnasium, Exercise rooms and associated change rooms exceed the standard
- the overall gross floor area of the building exceeds the standards of the Ministry Space Template

3.3 Floor Plans

The proposed upgrades include extensive renovations to provide the following new program areas:

- Art, Culture & Digital Media (Tier 3)

The proposed upgrades include extensive renovations to upgrade or relocate the following program areas:

- Manufacturing (Tier 3)
- Transportation (Tier 3)
- Construction
- Staff Workroom
- Computer Engineering
- Washroom Upgrades

The proposed upgrades include ***basic renovations*** to the following program areas:

- Digital Media
- Design Media
- Integrated Technology

3.4 Site Plan

The proposed site improvements include:

- completion of upgrades to parking surfaces, driveways and sidewalks

3.5 Asbestos Abatement

- Two weeks should be allocated prior to construction in each of the technology shops for abatement and demolition
- Abatement is required for any work in the corridor requiring access to ceilings
- It is generally recommended that abatement work is completed while the school is not occupied
- Reference to be made to the November 2015 Asbestos Inventory prior to any construction in the technology wing

SECONDARY SCHOOL SPACE TEMPLATE

SECONDARY SCHOOL SPACE TEMPLATE
SAMPLE SCHOOL

School Board:	Sample District School Board
Grade Range:	Grade 9 to 12
Program:	English, French or Dual Track
School Name:	**Sample School for 1,000 Students**

Table 18: Secondary Model Program Sheet			
Expected Enrolment:			**1,000**
Credit Assumptions	**%**	**Credits**	**Classes**
			45
Regular	51	3,825	27
Science	15	1,125	7
Arts	10	750	4
Business	5	375	2
Technology	10	750	4
Family Studies	3	225	1
Physical Education	6	450	
Number of Instructional Spaces	**45**		

Instructional Spaces	**#**	**Size m²**	**Size ft²**	**Floor Area m²**	**Floor Area ft²**	**Load**	**OTG**
Classroom	27	70	750	1,881	20,250	21	567
Science Laboratories	**7**	**116**	**1,250**	**813**	**8,750**	**21**	**147**
Science General (Avg Size)		-		-	-	21	
Science Biology (Avg Size)		-		-	-	21	
Science Chemistry (Avg Size)		-		-	-	21	
Science Physics (Avg Size)		-		-	-	21	
Total Music / Arts	**4**			**444**	**4,780**		**84**
Music Instrumental/Vocal	1	129	1,390	129	1,390	21	21
Graphics/Visual Arts	3	105	1,130	315	3,390	21	63
Theatre Arts		-		-	-	21	-
Photography		-		-	-	21	-
Media Arts		-		-	-	21	-
Technical / Vocational	**7**			**1,053**	**11,330**		**147**
Business/Computer Room	2	97	1,040	193	2,080	21	42
Family Studies	*1*	*114*	*1,230*	*114*	*1,230*		*21*
Family Studies (Food)		-		-	-	21	-
Family Studies (Textiles/Fashion)		-		-	-	21	-
Family Studies (Nutrition)		-		-	-	21	-
Technology Lab Large	*2*	*232*	*2,500*	*465*	*5,000*		*42*
Transportation		-		-	-	21	
Construction		-		-	-	21	
Design/Drafting		-		-	-	21	
Manufacturing		-		-	-	21	
Green Industries		-		-	-	21	
Welding		-		-	-	21	
Wood		-		-	-	21	
Integrated		-		-	-	21	
Technology Lab Small	*2*	*140*	*1,510*	*281*	*3,020*		*42*
Communications		-		-	-	21	
Computer Engineering		-		-	-	21	
Computer Laboratory		-		-	-	21	
Cosmetology		-		-	-	21	
Health Sciences		-		-	-	21	
Special Education / Resource Room				**372**	**4,000**		**-**
Special Education Area		-		-	-	9	-
Resource Area - Loaded (400-699 sf)		-		-	-	12	-
Resource Area - Unloaded (<400 sf)		-	-	-	-		
Instructional Area Flexibility		-		372	4,000		

SECONDARY SCHOOL SPACE TEMPLATE
Dundas Existing

School Board:	
Grade Range:	
Program:	
School Name:	**Dundas Existing**

Instructional Spaces	**#**	**Size m²**	**Size ft²**	**Floor Area m²**	**Floor Area ft²**	**Load**	**OTG**
Classroom	29	79	847	2,282	24,563	21	609
Science Laboratories	**6**			**638**	**6,872**		**126**
Science General (Avg Size)	2	84	900	167	1,801	21	42
Science Biology (Avg Size)	1	114	1,226	114	1,226	21	21
Science Chemistry (Avg Size)	2	123	1,323	246	2,645	21	42
Science Physics (Avg Size)	1	111	1,200	111	1,200	21	21
Total Music / Arts	**5**			**817**	**8,790**		**105**
Music Instrumental/Vocal	3	142	1,530	426	4,590	21	63
Graphics/Visual Arts	2	195	2,100	390	4,200	21	42
Theatre Arts		-		-	-	21	-
Photography		-		-	-	21	-
Media Arts		-		-	-	21	-
Technical / Vocational	**5**			**1,200**	**12,915**		**105**
Business/Computer Room		-		-	-	21	-
Family Studies	-			-	-		-
Family Studies (Food)		-		-	-	21	-
Family Studies (Textiles/Fashion)		-		-	-	21	-
Family Studies (Nutrition)		-		-	-	21	-
Technology Lab Large	*5*			*1,200*	*12,915*		*105*
Transportation	1	290	3,120	290	3,120	21	21
Construction	1	255	2,745	255	2,745	21	21
Design/Drafting		-		-	-	21	-
Manufacturing	2	218	2,350	437	4,700	21	42
Green Industries		-		-	-	21	-
Welding		-		-	-	21	-
Wood		-		-	-	21	-
Integrated	1	218	2,350	218	2,350	21	21
Technology Lab Small	-			-	-		-
Communications		-		-	-	21	-
Computer Engineering		-		-	-	21	-
Computer Laboratory		-		-	-	21	-
Cosmetology		-		-	-	21	-
Health Sciences		-		-	-	21	-
Special Education / Resource Room	**6**			**306**	**3,294**		**42**
Special Education Area	2	71	764	142	1,528	9	18
Resource Area - Loaded (400-699 sf)	2	65	699	130	1,398	12	24
Resource Area - Unloaded (<400 sf)	2	17	184	34	368		-
Instructional Area Flexibility							

Model vs Existing	
m²	**ft²**
401	4,313
-174	-1,878
373	4,010
147	1,585
-114	-1,230
735	7,915
-281	-3,020
-66	-706

SECONDARY SCHOOL SPACE TEMPLATE
Dundas Proposed

School Board:	
Grade Range:	
Program:	
School Name:	**Dundas Proposed**

Instructional Spaces	**#**	**Size m²**	**Size ft²**	**Floor Area m²**	**Floor Area ft²**	**Load**	**OTG**
Classroom	29	79	847	2,282	24,563	21	609
Science Laboratories	**6**			**638**	**6,872**		**126**
Science General (Avg Size)	2	84	900	167	1,800	21	42
Science Biology (Avg Size)	1	114	1,226	114	1,226	21	21
Science Chemistry (Avg Size)	2	123	1,323	246	2,646	21	42
Science Physics (Avg Size)	1	111	1,200	111	1,200	21	21
Total Music / Arts	**5**			**817**	**8,790**		**105**
Music Instrumental/Vocal	3	142	1,530	426	4,590	21	63
Graphics/Visual Arts	2	195	2,100	390	4,200	21	42
Theatre Arts		-		-	-	21	-
Photography		-		-	-	21	-
Media Arts		-		-	-	21	-
Technical / Vocational	**5**			**1,093**	**11,765**		**105**
Business/Computer Room		-		-	-	21	-
Family Studies	-			-	-		-
Family Studies (Food)		-		-	-	21	-
Family Studies (Textiles/Fashion)		-		-	-	21	-
Family Studies (Nutrition)		-		-	-	21	-
Technology Lab Large	*4*			*982*	*10,565*		*84*
Transportation	1	290	3,120	290	3,120	21	21
Construction	1	255	2,745	255	2,745	21	21
Design/Drafting		-		-	-	21	-
Manufacturing	1	218	2,350	218	2,350	21	21
Green Industries		-		-	-	21	-
Welding		-		-	-	21	-
Wood		-		-	-	21	-
Integrated	1	218	2,350	218	2,350	21	21
Technology Lab Small	*1*			*111*	*1,200*		*21*
Arts & Culture: Digital Media (Tier 3)		-		-	-	21	-
Computer Engineering	1	111	1,200	111	1,200	21	21
Computer Laboratory		-		-	-	21	-
Cosmetology		-		-	-	21	-
Health Sciences		-		-	-	21	-
Special Education / Resource Room	**5**			**234**	**2,520**		**30**
Special Education Area	2	71	764	142	1,528	9	18
Resource Area - Loaded (400-699 sf)	1	58	624	58	624	12	12
Resource Area - Unloaded (<400 sf)	2	17	184	34	368		-
Instructional Area Flexibility							

SECONDARY SCHOOL SPACE TEMPLATE

Other Spaces				975	10,500		-
Stage		139	1,500	139	1,500		
Library/Library Resource Centre		372	4,000	372	4,000		
Cafetorium/Cafeteria		465	5,000	465	5,000		
Lecture		-	-	-	-	21	-
Seminar		-	-	-	-		
Chapel		-	-	-	-		

Gymnasium and Exercise Room				1,371	14,760		42
Gymnasium Area - Quadruple		1,486	16,000	-	-	63	-
Gymnasium Area - Triple	1	1,115	12,000	1,115	12,000	42	42
Gymnasium Area - Double	-	743	8,000	-	-	21	-
Gymnasium Area - Single	-	372	4,000	-	-		
Dance/Aerobics Studio		-		-	-		
Exercise Room		-		-	-		
Weight Room		-		-	-		
Change Rooms	4	64	690	256	2,760		
Gymnasium and Exercise Room Flexibility		-		-	-		

Total GFA and OTG of Instructional Area				6,909	74,370		987

Operational Areas	Per Pupil		Floor Area	
	m²	ft²	m²	ft²
General Office	0.2	2.3	214	2,300
Guidance Area	0.1	1.3	121	1,300
Cooperative Education Office			26	280
Staff Lounge			-	
Kitchen/Servery	0.1	1.1	102	1,100
Custodial Areas	0.2	1.7	158	1,700
Staff Room and Teacher Work Rooms	0.3	3.5	325	3,500
Meeting Room			28	300
Academic Storage	0.1	1.0	93	1,000
Washrooms	0.3	3.2	297	3,200
Gymnasium Storage			74	800
Mechanical Spaces	0.5	5.8	536	5,770

Total Operational Area	1,974	21,250
Total Instructional (from above)	6,909	74,370
Total Operational and Instructional	8,883	95,620

Gross Up Added	42%	3,731	40,160
Gross Floor Area		12,614	135,780

Area per Pupil for 1000 pupils:	12.61	135.8

Community Use Rooms	m²	ft²
Child Care	-	
Early Years Hub	-	
Community Use	-	
Other (please identify)	-	
Other (please identify)	-	
Other (please identify)	-	
Total Community Use Rooms Area	-	-

Total Square Feet	12,614	135,780

Other Spaces	4			1,298	13,969		21		
Stage	1	102	1,098	102	1,098		-	-37	-402
Library/Library Resource Centre	1	586	6,307	586	6,307		-	214	2,307
Cafetorium/Cafeteria	1	513	5,522	513	5,522		-	48	522
Lecture	1	97	1,042	97	1,042	21	21	97	1,042
Seminar		-		-	-		-		
Chapel		-		-	-		-		

Gymnasium and Exercise Room	7			1,812	19,509		21	441	4,749
Gymnasium Area - Quadruple		-		-	-	63	-		
Gymnasium Area - Triple		-		-	-	42	-		
Gymnasium Area - Double	1	672	7,238	672	7,238	21	21		
Gymnasium Area - Single	1	557	5,991	557	5,991		-		
Dance/Aerobics Studio		-		-	-		-		
Exercise Room		-		-	-		-		
Weight Room		-		-	-		-		
Change Rooms	5	117	1,256	583	6,280		-		

Total GFA and OTG of Instructional Area				8,353	89,912		1,029	1,444	15,542

Operational Areas	Per Pupil		Floor Area				
	m²	ft²	m²	ft²			
General Office			20	215		-194	-2,085
Guidance Area			12	124		-109	-1,176
Cooperative Education Office			-			-26	-280
Staff Lounge			116	1,245		116	1,245
Kitchen/Servery			165	1,776		63	676
Custodial Areas			140	172		-18	-1,528
Staff Room and Teacher Work Rooms			235	2,534		-90	-966
Meeting Room			99	1,066		71	766
Academic Storage			111	1,198		18	198
Washrooms	rec		238	2,557		-60	-644
Gymnasium Storage			182	1,962		108	1,162
Mechanical Spaces			53	575		-483	-5,195

Total Operational Area	1,247	13,423	63%	-727	-7,827
Total Instructional (from above)	8,353	89,912	121%	1,444	15,542
Total Operational and Instructional	9,600	103,335	108%	717	7,715

Gross Up Added	38%	3,679	39,596			
Gross Floor Area		15,564	167,529	123%	2,950	31,749

Area per Pupil	15.13	162.8	120%		

Community Use Rooms	m²	ft²
Child Care	-	
Early Years Hub	-	
Community Use	-	
Other (please identify)	-	
Other (please identify)	-	
Other (please identify)	-	
Total Community Use Rooms Area	-	-

Total Square Feet	15,564	167,529		2,950	31,749

Other Spaces	4			1,298	13,969		21
Stage	1	102	1,098	102	1,098		-
Library/Library Resource Centre	1	586	6,307	586	6,307		-
Cafetorium/Cafeteria	1	513	5,522	513	5,522		-
Lecture	1	97	1,042	97	1,042	21	21
Seminar		-		-	-		-
Chapel		-		-	-		-

Gymnasium and Exercise Room	7			1,812	19,509		21
Gymnasium Area - Quadruple		-		-	-	63	-
Gymnasium Area - Triple		-		-	-	42	-
Gymnasium Area - Double	1	672	7,238	672	7,238	21	21
Gymnasium Area - Single	1	557	5,991	557	5,991		-
Dance/Aerobics Studio		-		-	-		-
Exercise Room		-		-	-		-
Weight Room		-		-	-		-
Change Rooms	5	117	1,256	583	6,280		-

Total GFA and OTG of Instructional Area				8,174	87,988		1,017

Operational Areas	Per Pupil		Floor Area	
	m²	ft²	m²	ft²
General Office			20	215
Guidance Area			12	124
Cooperative Education Office			-	
Staff Lounge			116	1,245
Kitchen/Servery			165	1,776
Custodial Areas			16	172
Staff Room and Teacher Work Rooms			235	2,534
Meeting Room			99	1,066
Academic Storage			111	1,198
Washrooms			238	2,557
Gymnasium Storage			182	1,962
Mechanical Spaces			53	575

Total Operational Area	1,247	13,423	63%
Total Instructional (from above)	8,174	87,988	118%
Total Operational and Instructional	9,421	101,411	106%

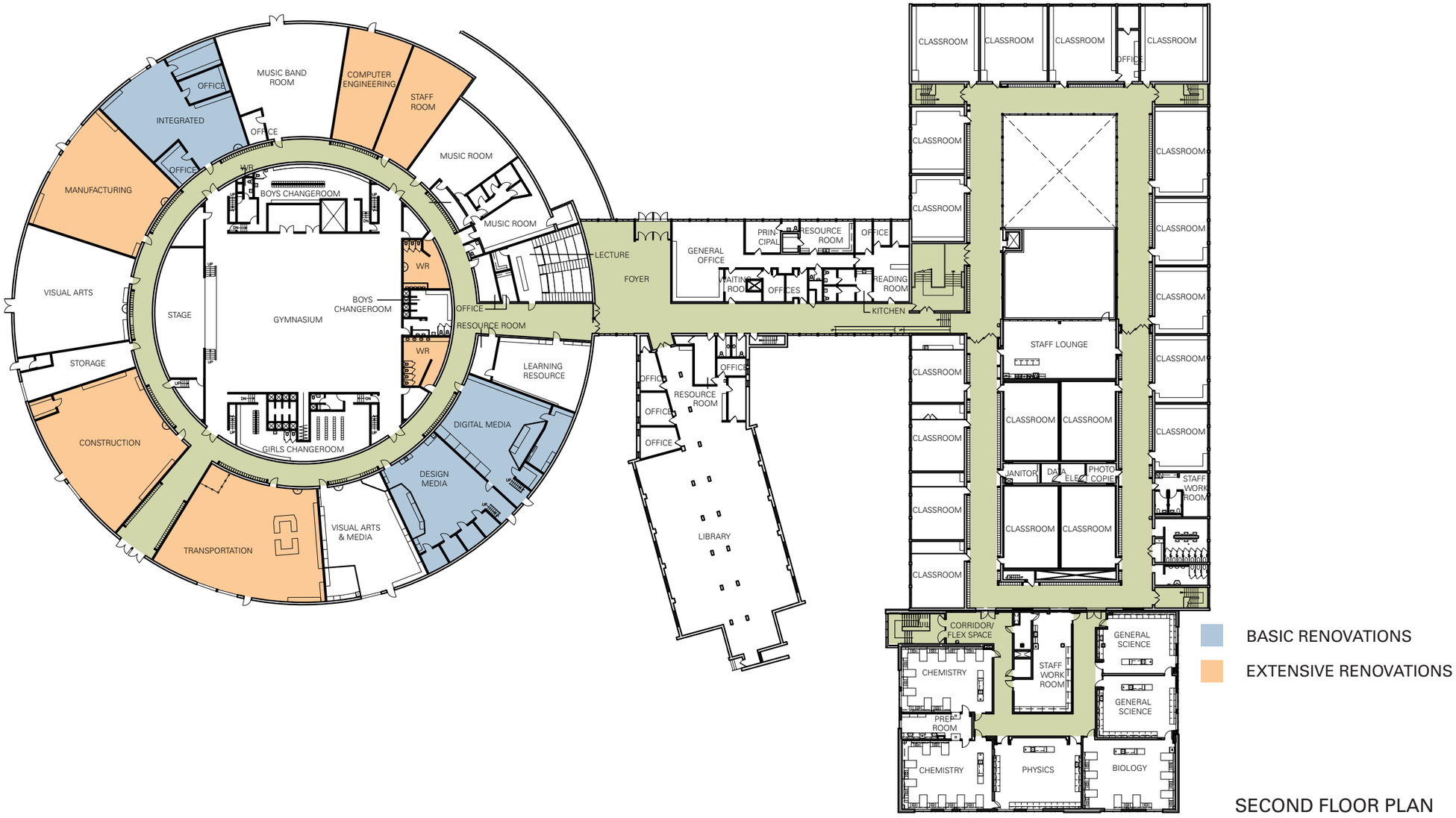
Gross Up Added	39%	3,718	40,023	
Gross Floor Area		15,564	167,529	123%

Area per Pupil	15.30	164.7	121%

Community Use Rooms	m²	ft²
Child Care	-	
Early Years Hub	-	
Community Use	-	
Other (please identify)	-	
Other (please identify)	-	
Other (please identify)	-	
Total Community Use Rooms Area	-	-

Total Square Feet	15,564	167,529

PROPOSED FLOOR PLANS



SECOND FLOOR PLAN

May 2, 2016

CS&P Architects

3. CONCEPT PLAN

3.6. Phasing

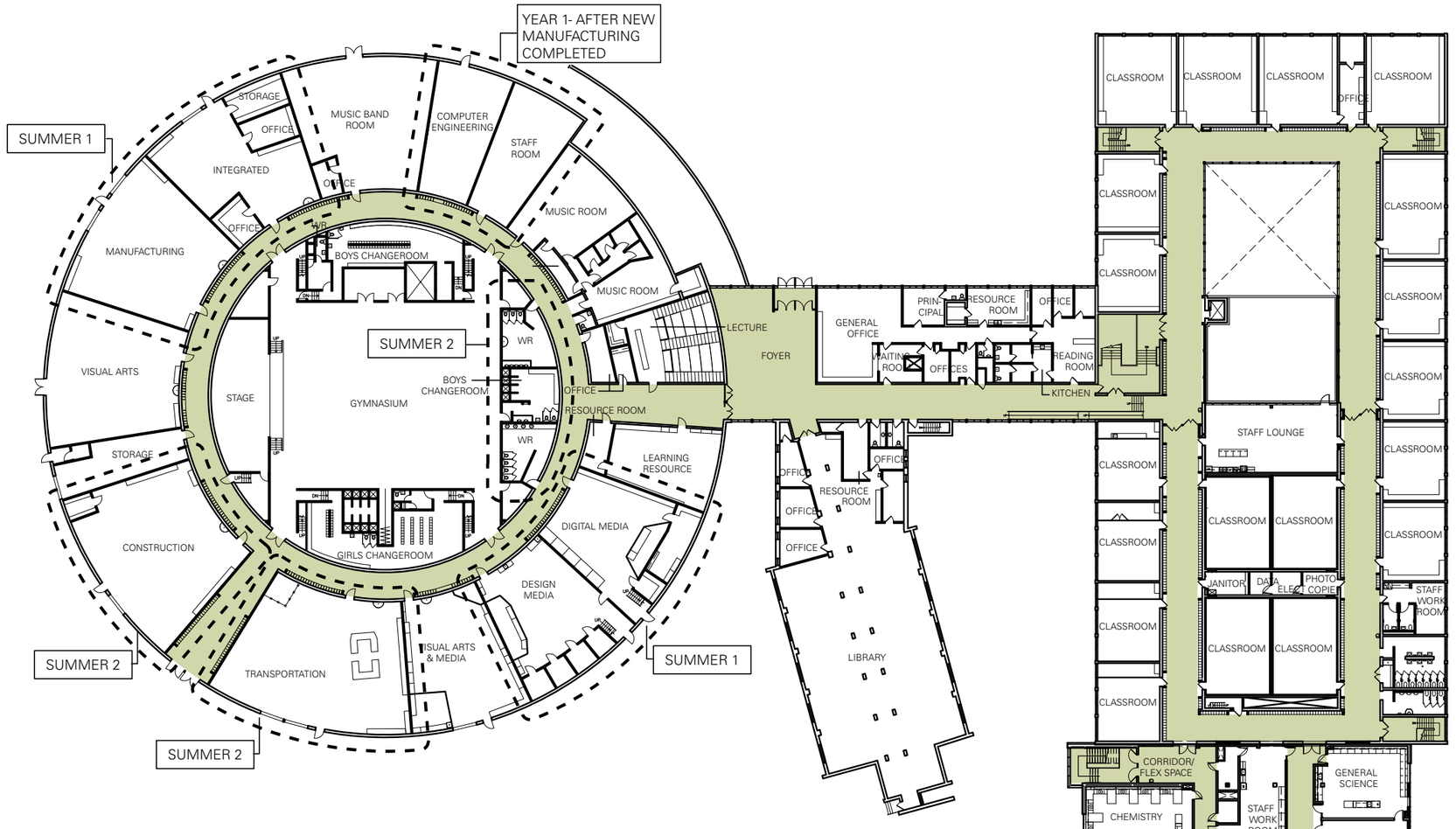
The phasing of the proposed construction will take approximately two years. The school will remain occupied during all phases of construction.

The proposed deep retrofit and renovations include the architectural improvements noted above, in addition to the required building condition, mechanical and electrical upgrades and replacements noted in the Building Condition Report. The areas indicated for summer construction may be completed in that 8 to 10 week period. However provisions should be made for potential extended construction period of up to four months. Students may need to be accommodated at a different location for up to two months depending on the complexity of the construction and potential for unanticipated site conditions. The building also requires asbestos abatement and remediation prior to the construction of each phase. The following diagrams describe the proposed phasing strategy. The strategy regarding the asbestos abatement and remediation was developed in consultation with the Board's Regulated Substances Supervisor.

Dundas

	Summer	Full Year
Year 1	**Abatement:** Digital Media, Design Media, Manufaturing, Integrated **Renovation:** Digital Media, Design Media, Manufaturing, Integrated	**Abatement:** Staff Work, Computer Engineering **Renovation:** Staff Work, Computer Engineering
Year 2	**Abatement:** Transportation, Construction, Washrooms **Renovation:** Transportation, Construction, Washrooms	

CONSTRUCTION PHASING PLANS



SECOND FLOOR PLAN

May 2, 2016

CS&P Architects

APPENDIX

ORDER OF MAGNITUDE CONSTRUCTION COST ESTIMATE

Room No	Program	Construction Type	Area (sf)	Cost per sf	Net Construction Cost	Design Allowance 10%	Total Construction Cost	Construction Contingency 5%	Soft Costs 15%	FFE Allowance 5%	Total Project Cost
2084	Digital Media	Basic	1,925	$ 70	$ 134,750	$ 13,500	$ 148,250	$ 7,400	$ 22,200	$ 7,400	$ 185,250
2088	Design Media - Mac Lab	Basic	1,925	$ 70	$ 134,750	$ 13,500	$ 148,250	$ 7,400	$ 22,200	$ 7,400	$ 185,250
2095	Transportation	Extensive	3,140	$ 130	$ 408,200	$ 40,800	$ 449,000	$ 22,500	$ 67,400	$ 22,500	$ 561,400
2097	Construction	Extensive	2,750	$ 130	$ 357,500	$ 35,800	$ 393,300	$ 19,700	$ 59,000	$ 19,700	$ 491,700
2103	Manufacturing	Extensive	2,350	$ 130	$ 305,500	$ 30,600	$ 336,100	$ 16,800	$ 50,400	$ 16,800	$ 420,100
2104	Integrated	Basic	2,350	$ 50	$ 117,500	$ 11,800	$ 129,300	$ 6,500	$ 19,400	$ 6,500	$ 161,700
2110	Computer Engineering	Basic	1,350	$ 70	$ 94,500	$ 9,500	$ 104,000	$ 5,200	$ 15,600	$ 5,200	$ 130,000
2110	Staff Work	Basic	1,000	$ 70	$ 70,000	$ 7,000	$ 77,000	$ 3,900	$ 11,600	$ 3,900	$ 96,400
	Washroom Upgrades	Extensive	760	$ 150	$ 114,000	$ 11,400	$ 125,400	$ 6,300	$ 18,800	$ 6,300	$ 156,800
Subtotal Renovations											***$ 2,388,600***
Abatement					$ 300,000						$ 300,000
Building Condition Assessment Upgrades					$ 8,364,000	$ 836,400	$ 9,200,400	$ 460,000	$ 1,380,100		$ 11,040,500
Total Project											**$ 13,729,100**

These costs do not include escalation for Phasing

MECHANICAL SYSTEMS

FOR

DUNDAS VALLEY SECONDARY SCHOOL

ADDITION AND RENOVATIONS

310 GOVERNORS ROAD

DUNDAS, ONTARIO

PREPARED BY:

ELLARD-WILLSON ENGINEERING LIMITED
260 Town Centre Boulevard
Suite 202
Markham, Ontario
L3R 8H8

FOR

HAMILTON WENTWORTH
DISTRICT SCHOOL BOARD
120 King Street West
Hamilton, Ontario
L8P 4V2

PROJECT NO. 16060

MAY 6, 2016

1. GENERAL

.1 Documentation of existing mechanical services has been obtained from an on-site visit and existing engineering drawings provided by the CS&P Architects.

.2 The current facility comprises approximately 8,640 sq. m. (93,000 sq. ft.) of floor area constructed in phases, built in 1964 and 1986.

.3 The new Addition will include a Gymnasium, Science Labs and Cafeteria expansion with a total area of 16,500 sq. ft.

2. EXISTING MECHANICAL SYSTEMS

.1 Site Services:

.1 Gravity storm and sanitary drainage systems piped to Governors Road.

.2 Incoming 100Ø domestic water services from Governors Road.

.2 Building Domestic Water System:

.1 Incoming 100Ø domestic water service enters building in the Basement Boiler Room.

.2 Copper pipe cold water distribution system from the water meter assembly throughout the school.

.3 Building Domestic Hot Water Generating System:

.1 The existing school has two (2) newer gas-fired high efficiency water storage tanks located in the Basement Boiler Room. Hot water tanks were installed in 2008.

.4 Building Storm and Sanitary Drainage System:

.1 The building has a gravity, piped storm and sanitary drainage system. The drawings indicate that a 250Ø sanitary drain and 600Ø storm drain exits the building at the opposite end of the circular building.

.5 Plumbing Fixtures:

.1 The school plumbing fixtures appear to be original to the date of construction.

.6 Fire Protection:

.1 The building is not sprinklered and does not have a fire hose system. Portable fire extinguishers are located throughout the building.

.2 Existing 50m cold water line drops down through grade from first floor ceiling space (through proposed expansion area) to Playing Field irrigation system. Rerouted as part of expansion work - 2015

.7 Heating System:

.1 The heating source for the building is provided by three (3) Harsco C2000 Mach heating boilers with 1,920 MBH heating output each (total capacity 5760 MBH). Boilers were replaced in 2012.

.2 Hot water perimeter heaters are provided for Classrooms, Library, Entrance lobby and Corridors. Cabinet unit heaters are provided for stairs entrance and Washrooms. Hot water heating coils are provided on supply air ductwork for Classrooms, Administration Offices and Gymnasium.

.8 Ventilation System:

.1 Generally throughout the existing facility, ventilation is provided by indoor air handling units except that Library has two (2) rooftop units.

.9 Cooling System:

.1 The Administration area has a split air conditioning unit and the Library has two (2) rooftop units. Three (3) Science Rooms on the second floor are provided with window type air conditioners.

.2 Air handling units in the round building have reached their end of life.

3. RECOMMENDED MODIFICATIONS (In Order of Priority)

.1 Replacement of existing AHU's for existing Classrooms, Gymnasium and Administration is recommended due to the fact that they were manufactured in 1964 and are nearing their end of life. The RTU's for the Library were manufactured in 1986. Although they are in fair condition, they are nearing their end of life.

.2 To replace the existing AHU's:

.1 AHU's can be placed in existing Penthouse or installed on the roof.

.2 AHU's shall be of the heat recovery type based on current Code requirements.

.3 The existing Science Classrooms on the second floor to be converted to typical classrooms. - **Completed 2015**

.3 The existing boiler capacity needs to be verified to determine if it is big enough for the new Expansion and AHU's replacement. This will be determined subject to the final layout of the new construction. – **Verified and completed 2015**

.4 The existing kitchen hood is to remain, but replacement of the existing kitchen exhaust fan and ductwork is not to NFPA Standard and it is recommended that it be replaced. Replacement of the existing make-up air unit and ductwork is also recommended.

.5 The AHU's in the round building are recommended to be replaced.

.6 Heating distribution piping is aged, in fair condition and a study is recommended.

.7 Exhaust fans for the school are aged and in fair condition.

4. NEW ADDITION – PLUMBING AND FIRE PROTECTION – Completed 2015

.1 Storm and Sanitary Drains:

.1 New gravity, storm and sanitary sewers will be extended from the manholes at the edge of the property line to the new Addition. The new building Addition will be served by a gravity storm and sanitary drainage system.

.2 An acid neutralizing system will be added for new Science Lab drainage.

.2 Domestic Water:

.1 The existing building domestic water service will be extended to the new building addition and a copper pipe system will be extended throughout to serve the new addition plumbing fixtures.

.2 An existing 50Ø cold water line feeding the existing Playing Field irrigation system is located where the Addition occurs and will have to be relocated as part of new work.

.3 Existing Playing Field irrigation system cold water to be removed and re-fed from new sprinkler room in new addition.

.3 Fire Water:

.1 A new, minimum 6", fire line will be extended from the street water main to the new building addition to serve the new addition sprinkler system.

.2 A new sprinkler room (approximately 8' x 8') is required in the new Expansion for the new sprinkler system.

.4 Roof Drainage:

.1 The new addition will be provided with a system of controlled flow roof drains piped to the new storm sewer provided under the site works contract.

.5 Plumbing Fixtures:

.1 New plumbing fixtures, to Board's Standards, will be provided throughout the new addition.

.6 Fire Protection:

.1 The new building addition will be fully sprinklered to meet Code and NFPA-13 requirements.

.2 Portable fire extinguishers, some in cabinets, will be provided throughout the new building addition to meet Code requirements.

5. NEW ADDITION – HVAC – Completed 2015

.1 Provide packaged gas-fired rooftop air handling units for new Gymnasium, Cafetorium and Science rooms. Units for Cafetorium and Science Classrooms shall be heat wheel heat recovery units.

.2 A new gas line will be connected from the existing gas meter station to new AHU's and Science Classrooms.

.3 The new hot water heating lines will be connected to the existing hot water piping system.

.4 The new Science Classrooms will be air conditioned.

.5 Washroom ventilation will be provided to current Code requirements.

.6 A new BAS system will be provided for the new Addition and all new equipment.

.7 HWDSB requested that the existing BAS (Siemens) pneumatic lines be changed to all electronic (this is a budget driven alternative, the School Board to advise).

END

ELECTRICAL SYSTEMS

FOR

DUNDAS VALLEY SECONDARY SCHOOL

ADDITION AND RENOVATIONS

310 GOVERNORS ROAD

DUNDAS, ONTARIO

PREPARED BY:

ELLARD-WILLSON ENGINEERING LIMITED
260 Town Centre Boulevard
Suite 202
Markham, Ontario
L3R 8H8

FOR

HAMILTON WENTWORTH
DISTRICT SCHOOL BOARD
120 King Street West
Hamilton, Ontario
L8P 4V2

PROJECT NO. 16060-A

MAY 6, 2016

1. GENERAL

.1 Documentation of existing electrical services has been obtained from an on-site visit and existing engineering drawings provided by CS&P Architects.

.2 The current facility comprises approximately 8,640 Sq. M. (93,000 Sq. Ft.) of floor area constructed in phases, built in 1964 and 1986.

.3 The new Addition will include a Gymnasium, Science Labs and Cafeteria expansion with a total are of 16,500 Sq. Ft.

2. EXISTING ELECTRICAL SYSTEMS AND PROPOSAL FOR NEW ADDITION

.1 Power Supply:

.1 Existing main switchboard (6 sections) is 3200Amp, 347/600V, 3ø, 4W complete with 2-3200Amp sub switches. Main switchboard has exceeded the useful life and should be replaced due to age and reliability.

.2 Main switchboard is connected to an outdoor 3000KVA transformer which has plenty of spare capacity.

.3 To replace existing switchboard and transformer with new 1200 Amp. 347/600V, 3Ø, 4W switchboard and 1000 kVA transformer. Budget cost should be $400,000.00 to $450,000.00.

.2 Power and Lighting Panels:

.1 Existing power and lighting panels have exceed the useful life and should be replaced due to age and reliability. Part of this Contract will be to replace only panels which do not meet Code requirements.

.2 Power and lighting panels for new addition will be of the breaker type, with bolt-on breakers and of the NHDP/CDP or NBLP type respectively. Power panels of both of the NHDP and CDP types will have a voltage rating of 347/600 volt, while NBLP panels will be 120/208 volt.

.3 Emergency Lighting:

.1 Existing emergency lighting consists of old emergency battery units and remote heads and will be replaced with new units.

.2 New emergency lighting will be provided throughout the school and will consist of battery units (550 watts, 120/24V) and remote 20 watts heads.

.3 New exit signs will be Running Man type.

.4 Wiring Materials and Methods:

.1 Existing electrical wiring material/installation could remain.

.2 New Addition

.1 All new wiring will be minimum #12 gauge and will be installed in conduit, or surface mounted wiremold in existing school.

.2 EMT will be used for branch circuits installed in furred ceiling spaces and in masonry or drywall partitions. An insulated ground wire will be installed in all conduits.

.3 Conductors will be copper. Insulation for feeders will be R90. Type TW will be used for 15, 20 and 30 amp. branch circuits.

.4 Cable trays will be provided in corridors for computer, P.A./telephone, security and cable TV wiring.

.5 All wiring devices and switches shall be specification grade.

.6 Locations of power outlets shall be as required to suit application.

.7 Receptacles in corridors and stairs will be 15 amp/20 amp combination type.

.8 GFCI receptacles to be complete with pilot light.

.5 Lighting:

.1 Lighting in School, in most areas is 2'-0"x4'-0" fluorescent fixtures with diffused type of lenses or suspended 1'-0"x4'-0" complete with cube lenses.

.2 In most areas, lighting level should be increased. We would recommend replacing the existing lenses with K-12 lenses or to retrofit fixtures with LED strips.

.3 Exterior lighting fixtures are old, complete with H.P.S. lamps and will be replaced with new L.E.D. type. Parking lighting standards complete with LED lamps shall be provided. Repair underground conduits which have been cut.

.4 Replace existing broken/missing lenses for existing lighting fixtures.

.5 New Addition

.1 Lighting will be 2'-0" x 4'-0" fixtures complete with LED strips. Lighting level in classrooms and science rooms will be at 55 F.C. maintained.

.2 In classrooms and science rooms, two light switches will be provided, one for rows near windows and one for remaining fixtures. Also, for fixtures near windows, relays and sensor will be provided.

.3 In gym, we will provide gym type lighting complete with T-5 lamps. Lighting level shall be 100 footcandles.

.4 For stairs landing, wall mounted fixtures will be provided where ceiling is too high for replacement of fixtures.

.5 Occupancy sensors will be provided in classrooms, science rooms, gym, change rooms, storage rooms, etc. Daylight harvesting will be provided also.

.6 Night lighting will be provided in corridors, stairs and vestibules (minimum lighting).

.7 Exit lights will be "Running Man" type.

.6 Fire Alarm System:

.1 Existing Fire Alarm System is by Edwards (Hybrid type).

.2 Existing F.A. panel will be replaced with new Simplex Addressable Panel (for future use).

.3 Existing F.A. devices (ie: pull stations, heat and smoke detectors, F.A. bells, etc.) will be replaced with Simplex hardwired devices.

.4 Existing conduit/wires will be re-used as much as possible.

.5 Existing Fire Alarm annunciator/graphic shall be replaced with new to suit renovation/addition.

.6 New F.A. devices will be added to suit Code requirements.

.7 P.A./Telephone Integrated System:

.1 P.A./Telephone system is provided in school (Meridian).

.2 P.A. speakers are located throughout the school.

.3 In classrooms, wall mounted P.A./Telephone handsets (Amstar) and speakers are provided (Not in control panel.)

.4 In new addition, design will match existing condition.

.5 Telephone line will be provided for the elevator.

.6 Provisions for Gym Sound System will be part of contract.

.8 Computer System – New Addition:

.1 Computer components have been provided throughout the school.

.2 New computer outlets complete with conduits, wiring, jacks and patch panels will be part of this contract.

.3 Sleeves will be provided between classrooms and corridors and between classrooms.

.4 Quantity and location of outlets will suit the Board's/Architect's requirements.

.5 AV outlets complete with associated components will be part of this contract.

.6 Provisions for teaching walls will be part of contract.

.9 Security System:

.1 Existing security system (MAXSYS 4020) containing motion detectors, door contacts and minimum CCTV cameras.

.2 In new addition, new devices and expenders will be provided. (Door contacts, motion detectors and CCTV cameras).

.3 Provisions for card readers will be part of contract.

.10 Cable TV System – New Addition:

.1 Outlets and empty conduits will be provided in areas to suit Board's requirements. The Board to advise, regarding location.

.11 Clock System:

.1 Existing clocks are Battery operated or Prymax type and are located throughout the school.

.2 In new addition, clocks will be Prymax type.

.12 Classroom Control Panel:

.1 Existing classrooms are without classroom control panel.

.2 In new addition classroom control panels will be part of contract.

.13 Science Classrooms:

.1 Provide outlets in locations to suit Board's/Architect's requirements.

.2 Provide separate panel in each Science Classroom complete with emergency push button and pilot light.

.3 Each Science Classroom will have provisions for teaching wall.

.4 Provide gas emergency shut-off push buttons and pilot light.

.14 Mechanical System:

.1 Motor starters will be supplied by Division 15. Division 15 will install starters located in motor control centre and Division 16 will install all remote starters.

.2 Motor control centre will be provided by Division 15 and installed by Division 16 in location as shown on drawings. Main feeders to motor control centers and branch wiring to the disconnect switches/motors will be by Division 16.

.3 Motor disconnect switches will be supplied and installed by Division 16, unless mechanical unit is complete with control panel and/or main switch.

.4 All low voltage control wiring will be by Division 15 (automatic controls).

END

Hamilton-Wentworth District School Board

Condition Assessment

Highland SS, Building ID 8247-1

Facility Name (SFIS)	Highland SS
Ministry Building Number	8247-1
GFA (m2)	12858
Year Built by Original/Additions	1968
Replacement Value - OTG	$24,399,300
Official FCI (%)	23.49
Comparable FCI (%)	44.94
Asset Address	310 Governor's Rd
Asset City	Dundas
Asset Postal Code	L9H 5P8
-- ACCESSIBILITY CHECKLIST --	----------
Designated parking space	No
Path of travel to the main entrance door.	No
Designated entrances	No
Path of travel to all floors/elevations.	No
Elevator	Yes
Instructional spaces entrance doors.	No
Fire policy and fire safety plan	Yes
Fire alarm system with strobe and audible signals	No
Communal washrooms	No
Designated washroom	No
-- ENERGY CHECKLIST --	----------
Energy efficient boiler	Yes
Energy audit report	No
Energy efficient domestic hot water heater	Yes
Energy efficient recovery system	No
Energy efficient HVAC pumps and fan motors	No
Energy efficient interior lighting	Yes
Building Automation System	Yes
Energy efficient faucets	No
Energy efficient urinals and toilets	No
Architectural and Site Assessor	Ramin Saeedi
Mechanical and Electrical Assessor	Mark Pantchevski

How to read the final report

The Final Report contains assessment information for 5 years for this facility.

Asset details reported are either populated from the SFIS system (e.g. GFA, year built etc) or calculated based on Ministry's criteria (e.g. Replacement Value – OTG, Official FCI, Comparable FCI etc).

Accessibility and Energy assessment lists are provided in a yes/no format. For a full description of accessibility/energy definitions please check the TCPS database, Asset Narratives, under the Narratives Tab.

Asset Narratives include the following:

- Architectural & Structural Summary –a brief summary of the asset including construction dates and areas of the original and additions. A brief description of the structure, the exterior wall system, the roof assembly system and the building interiors.
- Mechanical Summary – a brief summary of the mechanical systems.
- Electrical Summary – a brief summary of the Electrical systems.
- Site Summary – a brief summary of the Site systems.
- Limitations – a summary of the scope of work and the Tactical Planning Window.

Building Elements listed are only the ones that require replacement in the next 5 years; their condition is Critical if failed or risk of imminent failure is observed, or Poor if it is not functioning as intended with significant repairs within the next two (2) years, or Fair if normal deterioration and minor distress is observed requiring repairs within three (3) to five (5) years.

2011-2015 Cost and Year information is a snapshot from the assessment and cannot be edited in TCPS.

2011-2015 Priority is the value of the Event priority calculated when the assessment data was imported in TCPS and stored in this read-only field.

Estimated Cost and Fiscal Year are values that can be edited at any time by end users.

Event Priority is a field populated with labels like Urgent, High, Medium and Low based on the Event Priority Value. This value is calculated based on the Element Type and Element Condition.

Photos are provided at the event level: old photos are suffixed with the world "Old", new photos are suffixed with the date of assessment.

A copy of this report in PDF format is saved in the TCPS database. You can access it by selecting the Asset Instance in Data Manager and opening this report in PDF format from the Document Tab.

1. Architectural & Structural Executive Summary

Highland SS Building ID-8247-1 was assessed on May 07, 2013 by VFA is located at 310 Governor's Road , Dundas, Ontario. The original facility is a two story structure of block construction without basement. The original building is constructed in 1968. The addition one was added in 1986.

The total size of the building is 12,858 square meters. There was no information available about the size of site. Where visible, mainly in the GYM, workshops, and Cafeteria, the structure of the school are of Metal roof decking, steel trusses, steel joists and load bearing masonry. It was indicated that the some area of the roof coverings has been repaired due to leak in 2012.

The interior finishes consist of terrazzo, mainly vinyl composite tiles, ceramic tiles, hard wood flooring, painted masonry and gypsum board walls and, gypsum board acoustic ceilings.

The exterior walls of the school are brick veneer and Pre-cast concrete finished assembly.

Typical spaces in the school include auto shops, wood shop, library/resource center, music room, theater art class, auditorium, gymnasiums, weight room, computer rooms, science labs, administration office, and mechanical service space and general instructional classrooms.

2. Mechanical Executive Summary

2013 - Overall, the mechanical equipment is in fair condition.

Heating for Highland Secondary School is provided by three gas fired hot water boilers updated in 2012. The boilers provide hot water to perimeter fin tube radiators, force flow heaters at entrances, unit heaters and the heating coils of the AHUs. There are 8 air handlers which supply heating and ventilation throughout the school. Additional HVAC to the school is provided by 2 RTUs which provide cooling for addition 1 and 2. Condenser units provide cooling to coils in the air handlers. The remaining ventilation is provided by rooftop exhaust fans and various internal exhaust fans.

Domestic hot water is provided by 2 hot water heaters installed in 2012, which service the entire school.

The building HVAC system is controlled by a building automation system for the air handlers, boilers and water heaters.

The majority of the HVAC controls are provided by a pneumatic controls system.

The school has one elevator serving two floors with a 907 Kg capacity and is in good condition.

Fire protection for the school is provided by fire extinguishers.
Comments on exceptions: Based on age of components and observed site conditions the following mechanical equipment has exceeded their theoretical useful life and will require replacement within the tactical planning window.

- Plumbing fixtures are aged and in fair condition.

- Domestic distribution piping is aged, in fair condition and a study is recommended.

- Exterior gas piping distribution is aged and in fair condition.

- Cooling only RTUs for addition 1 are aged and in fair condition.

- Window A/C units are aged and in poor condition.

- Heating distribution piping is aged, in fair condition and a study is recommended.

- Exhaust fans for the school are aged and in fair condition.

- The central air handlers are aged and in poor condition.

- Terminal units in original building. are aged and in fair condition.

- Unit ventilator are aged and in poor condition.

- HVAC controls are aged and in fair condition.

- Fire extinguishers are aged and in poor condition.

- The dust collector is aged and in fair condition.

3. Electrical Executive Summary

2013 - Electrically Highland Secondary School is in fair condition.

The main switchgear has a 3200 Amp capacity. The fire alarm panel and end devices are in good condition.

Emergency lighting is provided by wall mounted battery pack units and a central battery bank. The interior lighting within the building is in good condition with CFLs and T8 lamps with electronic ballasts. Exterior lighting is provided by wall mounted incandescent and HID fixtures and light standards for the parking area. Exit lighting is in good condition.

Security system includes a panel, motion detectors, sensors, CCTV and keypads.

The communications system is in good condition.
Comments on exceptions: Based on age of components and observed site conditions the following electrical equipment has exceeded their theoretical useful life and will require replacement within the tactical planning window.

- The main switchboard is aged and in fair condition.

- Branch wiring in the original building is original, in fair condition and a study is recommended.

- Exterior lighting is aged and in fair condition.

- A portion or the emergency lighting system is aged and in poor condition.

- The security system is aged and in fair condition.

- The information technology system is in fair condition.

4. Site Summary

2013-The site -Highland SS is bounded by residential Properties on the south and, Bridlewood Drive to the west side of the site. There is residential properties and, St. Bernadette catholic elementary school on the east side of the site. Governor’s Road on the north side of the site.

Typical walkways service the site, with asphalt concrete landing or stairs at most building entrances.

There is a wall mounted sign on top of the facing north of the building which displays school name; the building access off Governor’s Road and there are paved parking on the west and, east of the site.

Definitions for Energy Checklist

Energy audit report: An ASHRAE Level I energy audit report was completed within the last three years.

Energy efficient boiler: The energy efficient boiler provided is a condensing boiler installed within the last five years or is energy star rated.

Energy efficient domestic hot water heater: The energy efficient domestic hot water heater provided is direct or power vented natural gas fired or has an electric heat coil.

Energy efficient recovery system: The building is provided with a Heat Recovery Unit (HRU).

Energy efficient HVAC pumps and fan motors: The energy efficient HVAC pumps and fan motors are reportedly provided with a variable frequency drive.

Energy efficient interior lighting: The provided interior lighting is controlled by motion sensors or building automation system and/or the interior light fixtures are provided with T8 or T5 fluorescent lamps and electronic ballast.

Building Automation System: The building has a comprehensive Direct Digital Control (DCC) automation system to monitor and control the mechanical system.

Energy efficient faucets: Approximately 50% of the lavatory faucets are provided with aerators and motion sensors.

Energy efficient urinals and toilets: Approximately 50% of the urinals and toilets are provided with a low flow flush valve (less than 1.6 gpf)

Definitions for Accessibility Checklist

Designated parking space: The provided designated Barrier Free Accessible parking space is a minimum 2,400 mm wide and is clearly marked with an accessibility sign.

Path of travel to the main entrance door: The provided accessible path of travel from the designated Barrier Free Accessible parking space to an accessible building entrance is a minimum 910 mm wide and includes curb cuts and ramps

Designated entrances: The provided designated Barrier Free Accessible entrance is a minimum 850 mm wide to allow a mobility device, clearly marked with an accessibility sign and is provided with an automatic door open device.

Path of travel to all floors/elevations: The Barrier Free Accessible path of travel is provided with either an accessible ramp or a vertical transportation device where a floor or an elevation difference exists.

Elevator: The provided Barrier Free Accessible Elevator has the following: clear audible communication indicating floors and up/down direction; doors, which open long enough and a minimum 900 mm wide; and a control panel, which is provided with Braille and an emergency call system and where the top is at a maximum height of 1,400 mm above floor.

Instructional spaces entrance doors: The instructional spaces are provided with an entrance door which is a minimum of 850 mm wide.

Fire policy and fire safety plan: Fire policy and fire safety plans are reportedly in place for the evacuation of people with disabilities.

Fire alarm system with strobe and audible signals: Fire alarm system is reported to include strobe lights and audible signals

Communal washrooms: There is a Barrier Free Accessible washroom stall, which is a minimum of 1,500 x 1,500 mm, in the each boys and girls washroom on each accessible floor.

Designated washroom: A designated Barrier Free Accessible washroom is provided on each floor, and is equipped with the following: an automatic door open device; grab bars; emergency call button; lever handle or motion sensor faucets; and a lavatory, where an insulated knee space is provided and the height of lavatory top is a maximum of 815 mm above the floor.

Limitations

This report has been prepared to meet the Ministry of Education (EDU) objectives for the Condition Assessment Program for Educational Facilities in Ontario. The purpose of the Condition Assessment Program was to assess the current physical condition of the schools and associated site features, and to validate information currently contained in the online capital renewal database software Total Capital Planning Solution (TCPS).

The validation of data was limited to a five year period, which is defined as the current assessment year plus four years. Information contained in the database beyond this period was not validated or reviewed.

The provided event costs are intended for global budgeting purposes only. The event costs were adjusted to include regional factors and were based on an approved unit cost list. Actual event costs for the work recommended may differ since the event costs can only be determined after preparation of tender documents, which would consider: specific design conditions, site restrictions, effects of ongoing building operations and construction schedule. The approved cost threshold for the Condition Assessment Program is $ 10,000.

Barrier Free Accessibility and Energy Conservation Measures assessments were limited to a preapproved checklist presented on Page 2. The assessment of portables (classrooms not integrated with the building envelope), solar photovoltaic panels, other solar energy collectors, wind turbines, sheds, less than 45 sq.m., play-equipment/structures, score boards, goal posts and flag poles, fire extinguishers, decommissioned swimming pools, window coverings, black/white boards, benches, gymnastic equipment and the appropriateness of room space were excluded from the scope of work. Information related to these components contained in the database was not updated to reflect condition observed. Information related to events which are either planned or in progress, and currently locked were not updated.

All Elements

B SHELL

B20 Exterior Enclosure

B2010 Exterior Walls

Element Instance : B2010 Exterior Walls - Original Building

Description 2013 -Precast concrete wall panel.

Condition Assessment 2013 - At the time of the assessment the exterior precast concrete wall panel were in fair condition, there were signs around the perimeter of the building on spalling loss and surface damage to precast concrete wall.

Last Replacement Year	1968
Theoretical Life	75
Technical Condition	Fair

Major Repair[B2010 Exterior Wall-Original Building]

Event Type: Major Repair **Priority:** High

Brief Description	Major Repair[B2010 Exterior Wall-Original Building]
Estimated Cost	$96,900
Fiscal Event Year	2015
2011-2015 Cost	$96,900
2011-2015 Priority	High
2011-2015 Year	2015

Recommendation 2013 - Recommend repairing is carried as soon as possible to avoid any damage to the building envelope

May 2013- Typical precast concrete r=exterior wall around the building envelop.

May 2013- Damaged exterior precast concrete exterior wall.

B2020 Exterior Windows

Element Instance : B2020 Exterior Windows - Original Building

Description 2013 - Exterior windows are fixed or operable windows located in exterior walls or exterior skin; this includes frames, glazing, caulking, finishes, and other associated work.

Condition Assessment 2013 - At the time of the assessment the original exterior windows were in poor condition, single pane units with hardware missing or not functioning

Last Replacement Year	1968
Theoretical Life	32
Technical Condition	Poor

Replacement [B2020 Exterior Windows - Original Building]

Event Type: Replacement **Priority:** High

Brief Description	Replacement [B2020 Exterior Windows - Original Building]
Estimated Cost	$1,094,910
Fiscal Event Year	2015
2011-2015 Cost	$1,094,910
2011-2015 Priority	High
2011-2015 Year	2015

Recommendation 2013 - Due the condition of the exterior windows it is recommended that they be replaced.

May 2013- Ttpical exterior bulding.

May 2013- Loss seal exterior window.

May 2013- Worn exterior window with missing hardware.

May 2013- Worn exterior window with Deteriorated seal.

B2030 Exterior Doors

Element Instance : B2030 Exterior Doors - Original Building

Description

2013 -The exterior doors and frames were observed to be primarily painted metal with single glazed Georgian wired glass.

Condition Assessment

2013 - The original exterior door assemblies were observed to be aged and worn beyond useful life with worn finishes, corroded frames, and deteriorated door seals.

Last Replacement Year	1968
Theoretical Life	27
Technical Condition	Fair

Replacement [B2030 Exterior Doors - Original Building]

Event Type: Replacement **Priority:** High

Brief Description	Replacement [B2030 Exterior Doors - Original Building]
Estimated Cost	$335,172
Fiscal Event Year	2015
2011-2015 Cost	$335,172
2011-2015 Priority	High
2011-2015 Year	2015

Recommendation

2013 - The exterior door assemblies were observed to be aged and worn beyond useful life. Replacement of the door assemblies is suggested.

May 2013- Typical exterior door in the building.

May 2013- Deteriorating exterior door.

Element Instance : B2030 Exterior Doors - Original Building

Description

2013 - Exterior door hardware was observed to consist of panic bars, push bars, kick plates, butt hinges and door pulls.

Condition Assessment

2013 - The exterior door hardware was observed to be aged and worn. Corrosion was noted on various components.

Last Replacement Year	1968
Theoretical Life	15
Technical Condition	Fair

Replacement [B2030 Exterior Doors - Original Building]

Event Type: Replacement

Priority: High

Brief Description	Replacement [B2030 Exterior Doors - Original Building]
Estimated Cost	$84,558

Fiscal Event Year	2015
2011-2015 Cost	$84,558
2011-2015 Priority	High
2011-2015 Year	2015

Recommendation

2013 - The aged and worn exterior door hardware is suggested be replaced in conjunction with exterior door replacement.

May 2013- Typical extrior door hardware.

Mar 2103- worn extrior door closer.

May 2013- worn exterior door push bar.

B30 Roofing

B3010 Roof Coverings

Element Instance : B3010 Roof Coverings - Sections 502, 503, 504, 505, 506, 507, 701

Description 2013 - Conventional built up roof assembly (BUR), with a pea gravel topcoat, possibly installed over insulation.

Condition Assessment 2013 - The BUR assembly of section 402 is aged, worn and it has been indicated of leak, with displaced ballast due to wind scouring and bleed through.

Last Replacement Year	2008
Theoretical Life	28

Technical Condition Fair

Replacement[B3010 Roof Covering- Section 402]

Event Type: Replacement **Priority:** High

Brief Description	Replacement[B3010 Roof Covering- Section 402]
Estimated Cost	$114,750
Fiscal Event Year	2015
2011-2015 Cost	$114,750
2011-2015 Priority	High
2011-2015 Year	2015

Recommendation 2013 - The BUR assembly of section 402 is aged and worn with displaced ballast and bleed through noted. Replacement of the roof is suggested.

May 2013- Roof covering of section 402 of the building roof.

C INTERIORS

C10 Interior Construction

C1020 Interior Doors

Element Instance : C1020 Interior Doors - Original Building

Description

2013 - Interior doors were observed to include finished wood veneer solid core wood doors and painted metal doors hung in painted metal frames. Some doors were observed with Georgian wired glazing.

Condition Assessment

2013 - The majority of doors were observed to be aged and worn beyond useful life. Wood doors had damaged veneers, painted metal doors had chipped paint, some glazing was non tempered .

Last Replacement Year	1968
Theoretical Life	25
Technical Condition	Poor

Replacement [C1020 Interior Doors - Original Building]

Event Type: Replacement **Priority:** High

Brief Description	Replacement [C1020 Interior Doors - Original Building]
Estimated Cost	$417,282
Fiscal Event Year	2015
2011-2015 Cost	$417,282
2011-2015 Priority	High
2011-2015 Year	2015

Recommendation

2013 - The interior doors have exceeded their useful life. Replacement of the interior doors is suggested.

May 2013- Damaged interior door.

May 2013- Worn interio door.

May 2013- Damaged interior door.

Element Instance : C1020 Interior Doors - Original Building

Description

2013 - Interior door hardware was observed to consist of push bars, knob handles, push plates, kick plates, butt hinges and door closers

Condition Assessment

2013 - The interior door hardware was observed to be aged, worn and deteriorated. Corrosion was noted on various components.

Last Replacement Year	2008
Theoretical Life	15
Technical Condition	Fair

Replacement [C1020 Interior Doors - Original Building]

Event Type: Replacement

Priority: Medium

Brief Description	Replacement [C1020 Interior Doors - Original Building]
Estimated Cost	$157,386

Fiscal Event Year	2015
2011-2015 Cost	$157,386
2011-2015 Priority	Medium
2011-2015 Year	2015

Recommendation

2013 - The majority of hardware was observed to be aged and worn beyond useful life. Replacement of interior door hardware in conjunction with door replacement is suggested.

May 2013- Typical interior door hardware.

May 2013- Typical interior door closer.

C1030 Fittings

Element Instance : C1030 Fittings - Original Building

Description

2013 - Original wood millwork with painted or veneer finish and plastic laminate countertop.

Condition Assessment

2013 - The original painted or veneer wood millwork has exceeded its effective rated design life, with signs worn and damaged edges.

Last Replacement Year	1968
Theoretical Life	20

Fittings Type	Unspecified
Technical Condition	Fair

Replacement [C1030 Fittings - Original Building]

Event Type: Replacement **Priority:** Medium

Brief Description	Replacement [C1030 Fittings - Original Building]
Estimated Cost	$291,516
Fiscal Event Year	2015
2011-2015 Cost	$291,516
2011-2015 Priority	Medium
2011-2015 Year	2015

Recommendation 2013 - The millwork has exceeded its effective useful life expectancy. Replacement planning for the millwork is recommended.

May 2013- Worn millwork fitting in the family classroom.

May 2013- Typical millwork fitting in the scince classrooms.

May 2013- Worm millwork in the classrooms.

May 2013- Miss match millwork in the custodian room.

Element Instance : C1030 Fittings - Original Building

Description 2013 - Painted metal washroom partitions were observed in the building.

Condition Assessment 2013 - The painted metal washroom partitions were observed to be aged and worn. Corrosion, damaged finishes and missing hardware was noted.

Last Replacement Year	1968
Theoretical Life	15
Fittings Type	Unspecified
Technical Condition	Fair

Replacement [C1030 Fittings - Original Building]

Event Type: Replacement **Priority:** Medium

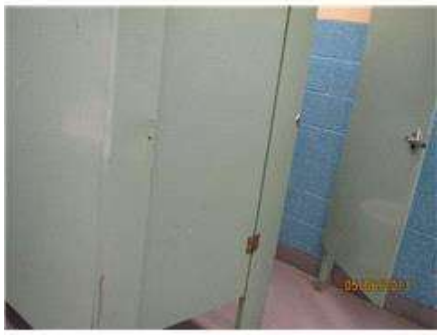
Brief Description: Replacement [C1030 Fittings - Original Building]

Estimated Cost	$113,871
Fiscal Event Year	2015
2011-2015 Cost	$113,871
2011-2015 Priority	Medium
2011-2015 Year	2015

Recommendation

2013 - The washroom partitions were observed to be aged and worn beyond useful life. Replacement is suggested. OLD-Corroded washroom partitions were observed in the school. Replacement of all original washroom partitions is recommended.

May 2013- Typical worn washroom partition in the building.



May 2013- Typical worn washroom partition in the building.

May 2013- Worn washroom partition in the building.

Element Instance : C1030 Fittings - Original Building

Description 2013 - painted existing original Lockers throughout the school.

Condition Assessment 2013 - the original painted lockers are generally in fair condition throughout the school.

Last Replacement Year	1968
Theoretical Life	22
Fittings Type	Unspecified

Technical Condition Fair

Replacement [C1030 Fittings - Original Building]

Event Type: Replacement **Priority:** Medium

Brief Description	Replacement [C1030 Fittings - Original Building]
Estimated Cost	$145,962
Fiscal Event Year	2015
2011-2015 Cost	$145,962
2011-2015 Priority	Medium
2011-2015 Year	2015

Recommendation 2013 - Recommend lockers to be replaced.

May 2013- Typical painted original lockers.

C20 Stairs

C2010 Stair Construction

C201001 Interior Stair Construction

Element Instance : C201001 Interior Stair Construction - Original Building

Description 2013 - Interior stair frames and treads

Condition Assessment 2013 - At the time of the assessment the interior stairs were in fair condition, the treads were worn and there was signs of corrosion on the framework

Last Replacement Year	1968
Theoretical Life	43

Technical Condition Fair

Replacement [C201001 Interior Stair Construction - Original Building]

Event Type: Replacement **Priority:** High

Brief Description	Replacement [C201001 Interior Stair Construction - Original Building]
Estimated Cost	$156,880
Fiscal Event Year	2015
2011-2015 Cost	$156,880
2011-2015 Priority	High
2011-2015 Year	2015

Recommendation 2013 - Replacement of initial flight of the interior stairs including the rubber covering is recommended

May 2013- Typical interior stairs in the school.

May 2013- Rusted interior stair frame and, finishes.

C30 Interior Finishes

C3010 Wall Finishes

Element Instance : C3010 Wall Finishes - Original Building

Description	2013 - Interior painted wall finishes were observed to include, concrete block, plaster and gypsum wallboard surfaces.
Condition Assessment	2013 - The interior wall finishes were observed to be aged and worn. Peeling, marks, chips and discoloration were deficiencies noted on wall surfaces.

Last Replacement Year	1968
Theoretical Life	10
Wall Finishes Type	Unspecified
Technical Condition	Fair

Replacement [C3010 Wall Finishes - Original Building]

Event Type: Replacement **Priority:** Medium

Brief Description	Replacement [C3010 Wall Finishes - Original Building]
Estimated Cost	$481,185
Fiscal Event Year	2015
2011-2015 Cost	$481,185
2011-2015 Priority	Medium
2011-2015 Year	2015

Recommendation 2013 - The aged and worn interior painted wall finishes are suggested to be replaced.

May 2013- Faded wall covering.

Element Instance : C3010 Wall Finishes - Original Building

Description 2013 - Thin set ceramic wall tiles situated in some washroom areas of the additions.

Condition Assessment 2013 - The ceramic wall tiles in the washroom area are cracked.

Last Replacement Year	1968
Theoretical Life	20
Wall Finishes Type	Unspecified
Technical Condition	Fair

Replacement [C3010 Wall Finishes - Original Building]

Event Type: Replacement **Priority:** Medium

Brief Description	Replacement [C3010 Wall Finishes - Original Building]
Estimated Cost	$201,042

Fiscal Event Year	2015
2011-2015 Cost	$201,042
2011-2015 Priority	Medium
2011-2015 Year	2015

Recommendation 2013 - The ceramic wall tile wall finish are cracking and deteriorating. Full replacement is warranted.

May 2013- Cracked ceramic tile wall covering in the washroom.

C3020 Floor Finishes

Element Instance : C3020 Floor Finishes - Original Building

Description 2013 - Ceramic floor covering in the office area.

Condition Assessment 2013 - At the time of the assessment the ceramic floor covering was in fair condition, it was showing signs of age and wear

Last Replacement Year	1968
Theoretical Life	25
Floor Finishes Type	Unspecified
Technical Condition	Fair

Replacement [C3020 Floor Finishes - Original Building]

Event Type: Replacement **Priority:** Medium

Brief Description	Replacement [C3020 Floor Finishes - Original Building]
Estimated Cost	$163,302
Fiscal Event Year	2015

2011-2015 Cost	$163,302
2011-2015 Priority	Medium
2011-2015 Year	2015

Recommendation 2013 - Replacement is recommended based on the observed condition

May 2013- Cracked ceramic tiles in the office area.

Element Instance : C3020 Floor Finishes - Original Building

Description 2013 - Carpet floor covering in Library and staff area

Condition Assessment 2013 - At the time of the assessment the carpet floor covering was in fair condition, it was showing signs of age and wear

Last Replacement Year	1968
Theoretical Life	10
Floor Finishes Type	Unspecified
Technical Condition	Poor

Replacement [C3020 Floor Finishes - Original Building]

Event Type: Replacement **Priority:** High

Brief Description	Replacement [C3020 Floor Finishes - Original Building]
Estimated Cost	$159,786
Fiscal Event Year	2015
2011-2015 Cost	$159,786
2011-2015 Priority	High
2011-2015 Year	2015

Recommendation 2013 - Replacement is recommended based on the observed condition

May 2013- Worn Carprt covring in the office.

May 2013- Worn carpet flooring in the Library.

May 2013- Stained carpet flooring in the Library.

May 2013- Damagerd and stained carpet in the tech wing classroom.

Element Instance : C3020 Floor Finishes - Original Building

Description

2013 - Vinyl Asbestos 9" x 9 " floor tile and vinyl base was observed in the school.

Condition Assessment

2013 - The VAT floor finish was observed to be aged and worn beyond useful life. The tiles were chipped, cracked and locally no longer bonded.

Last Replacement Year	1968
Theoretical Life	20
Floor Finishes Type	Unspecified
Technical Condition	Fair

Replacement [C3020 Floor Finishes - Original Building]

Event Type: Replacement **Priority:** Medium

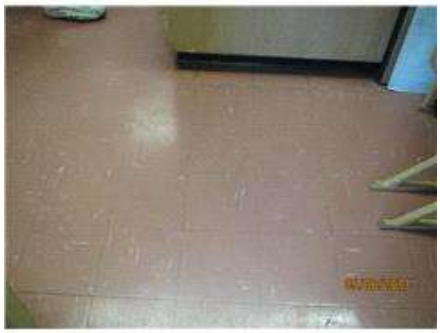
Brief Description	Replacement [C3020 Floor Finishes - Original Building]
Estimated Cost	$364,956
Fiscal Event Year	2015
2011-2015 Cost	$364,956
2011-2015 Priority	Medium
2011-2015 Year	2015

Recommendation

2013 - The VAT floor finish observed to be aged and worn beyond useful life. Replacement of the VAT floor finish suggested to update the appearance and mitigate any potential health concerns. OLD-Cracked, chipped and debonded 9x9 vinyl tiles were observed in the building. The 9x9 vinyl tiles appear to be original to the building and have exceeded their theoretical life. Replacement of the vinyl tile floors is recommended.

May 2013- worn VAT in some classrooms.

May 2013- worn VAT in some classrooms.



May 2013- worn and, cracked VAT.

Element Instance : C3020 Floor Finishes - Original Building

Description	2013 - Hardwood flooring was observed in the gymnasium and on the stage and, some of the classroom in the tech area like construction technology classroom.
Condition Assessment	2013 - The hardwood flooring was observed to be aged and worn. Scratches and a deteriorated finish were noted.

Last Replacement Year	1968
Theoretical Life	20
Floor Finishes Type	Unspecified
Technical Condition	Fair

Major Repair [C3020 Floor Finishes - Original Building]Repair

Event Type: Major Repair **Priority:** Medium

Brief Description	Major Repair [C3020 Floor Finishes - Original Building]Repair
Estimated Cost	$291,414
Fiscal Event Year	2015
2011-2015 Cost	$291,414
2011-2015 Priority	Medium
2011-2015 Year	2015

Recommendation

2013 - It is suggested that the hardwood flooring be refinished or replaced. OLD-Worn and deteriorated hardwood floors were observed in the school. Restoration of all hardwood floors is recommended.

May 2013- Hardwood flooring in the construction technology classroom.

May 2013- Worn hardwood flooring in the GYM.

May 2013- Hardwood floor covering on the stage.

C3030 Ceiling Finishes

Element Instance : C3030 Ceiling Finishes - Original Building - most areas

Description 2013 - Acoustical 12"x12" ceiling tile system on substrate secured to the structure above.

Condition Assessment 2013 - The 12" x 12": acoustic ceiling tile is original to the building and additions. There is some signs of staining and damage, and the ceiling system has exceeded its useful life expectancy.

Last Replacement Year	1968
Theoretical Life	25
Ceiling Finishes Type	Unspecified
Technical Condition	Poor

Replacement [C3030 Ceiling Finishes - Original Building - most areas]

Event Type: Replacement **Priority:** High

Brief Description	Replacement [C3030 Ceiling Finishes - Original Building - most areas]
Estimated Cost	$58,650
Fiscal Event Year	2015
2011-2015 Cost	$58,650
2011-2015 Priority	High
2011-2015 Year	2015

Recommendation

2013 - The 12" x 12" acoustic tile ceiling system has exceeded its useful life and is known to contain asbestos materials. Replacement planning is recommended as to update the appearance of the facility and remove any potential health concerns.

May 2013 - Loss/damaged Asbestos contains ceiling tiles in the boys washroom by the gym.

May 2013- Deteriorating ceiling tiles.

May 2013- Asbestos contains ceiling tiles.

D SERVICES

D20 Plumbing

D2010 Plumbing Fixtures

Element Instance : D2010 Plumbing Fixtures - Original Building

Description

2013 - The washroom plumbing fixtures include vitreous china water closets, lavatories, urinals and Bradley basins. Classroom sinks, lab sinks, Bradley basins and drinking fountains are also provided in various locations throughout the school.

Condition Assessment

2013 - The majority of the plumbing fixtures appear to be functioning, but are in fair condition. Some fixtures (15%) have been replaced overtime. The majority of the fixtures have surpassed their normal service life and are inefficient. Planning for renewal is recommended.

Last Replacement Year	1968
Theoretical Life	25
Technical Condition	Fair

Replacement [D2010 Plumbing Fixtures - Original Building]

Event Type: Replacement **Priority:** Medium

Brief Description	Replacement [D2010 Plumbing Fixtures - Original Building]
Estimated Cost	$350,000
Fiscal Event Year	2017
2011-2015 Cost	$350,000
2011-2015 Priority	Medium
2011-2015 Year	2017

Recommendation

2013 - Replacement of the original and aged plumbing fixtures in the building (85%) is recommended based on the age, condition and rated useful life.

May 2013 - Typical Aged Lavatories

May 2013 - Typical Tankless Water Closets

May 2013 - Typical Outdated Bradley Basins

May 2013 - Original Floor Mounted Urinals

May 2013 - Aged and Corroded Science Room Lab Sink

D2020 Domestic Water Distribution

Element Instance : D2020 Domestic Water Distribution - Original Building

Description

2013 - The building domestic water system includes a main line, water meter, pressure reducer and associated piping and insulation. At the time of assessment the domestic water distribution system was estimated to be original to the dates of construction of the additions and original building.

Condition Assessment

2013 - The domestic piping system is mostly concealed and therefore the current condition is not fully known. However due to the age, the expected wear and the theoretical useful life, the system is assessed as being in fair condition.

Last Replacement Year	1968
Theoretical Life	37
Domestic Water Distribution Type	Unspecified
Technical Condition	Fair

Replacement [D2020 Domestic Water Distribution - Original Building]

Event Type: Replacement **Priority:** Medium

Brief Description	Replacement [D2020 Domestic Water Distribution - Original Building]
Estimated Cost	$765,000
Fiscal Event Year	2016
2011-2015 Cost	$765,000
2011-2015 Priority	Medium
2011-2015 Year	2016

Recommendation 2013 - Based on the age and theoretical useful life of the domestic water piping system replacement is recommended. A study is recommended to determine the current condition, remaining service life, current service requirements and the cost of replacement.

May 2013 - Minor Corrosion on Domestic Water Piping

Study [D2020 Domestic Water Distribution - Original Building]

Event Type: Study **Priority:** Medium

Brief Description	Study [D2020 Domestic Water Distribution - Original Building]
Estimated Cost	$10,200
Fiscal Event Year	2014
2011-2015 Cost	$10,200
2011-2015 Priority	Medium
2011-2015 Year	2014

Recommendation 2013 - An intrusive study is recommended to determine the condition of the domestic water piping system, the required recommended scope of work and the cost for system renewal.

D30 HVAC

D3010 Energy Supply

Element Instance : D301002 Gas Supply System - Original Building

Description

2013 - The building includes a natural gas supply and distribution system for the boilers, kitchen, science classrooms and other areas.

Condition Assessment

2013 - At the time of the assessment the gas piping within the building was noted as aged but, in good condition. The exterior section of the gas piping on the roof was observed to be corroded and in poor condition.

Last Replacement Year	1968
Theoretical Life	35
Technical Condition	Fair

Replacement - Exterior Gas Distribution

Event Type: Replacement **Priority:** High

Brief Description	Replacement - Exterior Gas Distribution
Estimated Cost	$20,400
Fiscal Event Year	2015
2011-2015 Cost	$20,400
2011-2015 Priority	High
2011-2015 Year	2015

Recommendation

2013 - Replacement of the exterior section of the natural gas distribution is recommended based on condition and age.

May 2013 - Gas Piping is Exposed to Elements and Corroded

May 2013 - Gas Piping is Exposed to Elements and Corroded

D3030 Cooling Generating Systems

D303099 Other Cooling Generating Systems

Element Instance : D303099 Other Cooling Generating Systems - Addition 1

Description

2013 - Addition 1 is serviced by 2 cooling only RTUs which are reportedly original to 1986.

Condition Assessment

2013 - The rooftop units are nearing the end of their useful lives. The RTUs are in fair condition and minor corrosion and damage was visible. Although the units appear well maintained, they have degraded in condition over the years.

Last Replacement Year	1986
Theoretical Life	25
Other Cooling Generating Systems Type	Unspecified

Technical Condition Fair

Replacement D303099 [Roof Top Units Cooling Only - Addition 1]

Event Type: Replacement **Priority:** High

Brief Description	Replacement D303099 [Roof Top Units Cooling Only - Addition 1]
Estimated Cost	$20,400
Fiscal Event Year	2016
2011-2015 Cost	$20,400
2011-2015 Priority	High
2011-2015 Year	2016

Recommendation

2013 - Based on the age and condition of the original rooftop units, planned replacement is recommended within the next 5 years.

May 2013 - Two Aged Cooling Only RTUs

May 2013 - Damaged Fins Will Reduce Efficiency

May 2013 - Rust and Corrosion are Visible on Condenser Fan Blades and Guards

Element Instance : D303099 Other Cooling Generating Systems - Original Building

Description

2013 - The original building contained 9 window A/C units installed at various times as needed to supply cooling to classrooms and computer labs.

Condition Assessment

2013 - The window A/C units ranged from non operational to good condition, with the majority not meeting the cooling needs of the intended space.

Last Replacement Year	1995
Theoretical Life	10
Other Cooling Generating Systems Type	Unspecified
Technical Condition	Poor

D303099 Other Cooling Generating Systems - Original Building

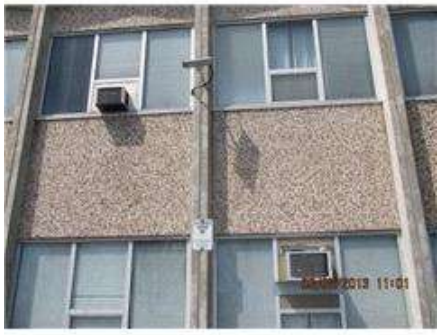
Event Type: Replacement **Priority:** High

Brief Description	Replacement D303099 [Other Cooling Generating Systems - Original Building]
Estimated Cost	$10,200
Fiscal Event Year	2014
2011-2015 Cost	$10,200
2011-2015 Priority	High
2011-2015 Year	2014

Recommendation

2013 - Replacement of the aged window A/C units is recommended with new window A/C's or split system cooling installed in the computer labs to prevent overheating of computer equipment.

May 2013 - Aged and Undersized Window A/C Units



May 2013 - Aged and Undersized Window A/C Unit

D3040 Distribution Systems

D304003 Heating/Chilling water distribution systems

Element Instance : D304003 Heating/Chilling water distribution systems - Original Building

Description

2013 - HVAC hot water distribution system includes heating hot water piping and the associated valves, expansion tank, insulation and circulation pumps supplying hot water to fin tube radiation units, unit ventilators, unit heaters and heating coils of air handling units installed in 1968.

Condition Assessment

2013 - Partial upgrade of the heating piping was undertaken in 2012 with installation of the boilers, however the quantity and condition of original piping in the Original building is unknown. As original piping is approaching the end of its expected useful life, further investigation is recommended to determine current condition and possible need for replacement. With age, piping leaks may occur, damaging the building interiors.

Last Replacement Year	1968
Theoretical Life	45
Technical Condition	Fair

Replacement [D304003 Heating/Chilling water distribution systems - Original Building]

Event Type: Replacement **Priority:** High

Brief Description	Replacement [D304003 Heating/Chilling water distribution systems - Original Building]
Estimated Cost	$656,932
Fiscal Event Year	2016
2011-2015 Cost	$656,932
2011-2015 Priority	High
2011-2015 Year	2016

Recommendation

2013 - Pending the outcome of the recommended study, replacement of the building's heating piping and distribution system may be required. In the current condition piping leaks may occur damaging the building interiors. The work associated with this project is expected to disturb material(s) suspected of containing, or known to contain asbestos, (ACMs). Testing of the suspected ACMs should be conducted prior to the initiation of any demolition and the costs should be adjusted based on the findings. The cost of hazardous materials abatement is not included in the replacement cost.

May 2013 - Aged Hot Water Heating Piping

Study

Event Type: Study **Priority:** High

Brief Description	Study
Estimated Cost	$10,200
Fiscal Event Year	2014
2011-2015 Cost	$10,200
2011-2015 Priority	High
2011-2015 Year	2014

Recommendation

2013 - The heating piping system are original to the construction. A study is recommended to be conducted to determine the condition, remaining service life and replacement cost.

D304007 Exhaust Systems

Element Instance : D304007 Exhaust Systems

Description

2013 - Various rooftop and internal exhaust fans service classrooms, washrooms and the general building providing ventilation to the building. There are a total of 2 roof top exhaust fans which service addition 2.

Condition Assessment

2013 - The exhaust fans are typically original to the building. Rooftop exhaust fans had damaged and weathered casings. The fans are well maintained but are well past their intended useful life and are in fair condition overall.

Last Replacement Year	1968

Theoretical Life	22
Technical Condition	Fair

Replacement [D304007 Exhaust Systems]

Event Type: Replacement **Priority:** Medium

Brief Description	Replacement [D304007 Exhaust Systems
Estimated Cost	$40,800
Fiscal Event Year	2016
2011-2015 Cost	$40,800
2011-2015 Priority	Medium
2011-2015 Year	2016

Recommendation 2013 - The internal and rooftop exhaust fans are operating past their expected useful lives and will likely require replacement as most are in fair condition.

May 2013 - Aged Rooftop Exhaust Fan - Addition 1

May 2013 - Aged Rooftop Exhaust Fan - Addition 1

Element Instance : D304007 Exhaust Systems - Science Fume Hoods

Description 2013 - The school has 4 fume hoods located in the science rooms of the original building.

Condition Assessment 2013 - At the time of assessment 3 of the 4 fume hoods in the science room were non operational and labeled not to be used.

Last Replacement Year	1986
Theoretical Life	25
Technical Condition	Critical

Replacement

Event Type: Replacement **Priority:** High

Brief Description	Replacement
Estimated Cost	$45,900
Fiscal Event Year	2013
2011-2015 Cost	$45,900
2011-2015 Priority	High
2011-2015 Year	2013

Recommendation 2013 - Replacement of the non operation fume hoods in the science classrooms is recommended.

D304008 Air Handling Units

Element Instance : D304008 Air Handling Units - Original Building

Description 2013 - HVAC in the Original Building is provided by 8 central air handling units. 7 of the central air handlers are original to 1968 and while 1 air handler in the main mechanical room was installed in 2012.

Condition Assessment 2013 - The 7 original central air handlers are original and have well exceeded the end of their predictable service life of 35 years.

Last Replacement Year	1968
Theoretical Life	35
Technical Condition	Poor

Replacement [D304008 Air Handling Units - Original Building]

Event Type: Replacement **Priority:** High

Brief Description	Replacement [D304008 Air Handling Units - Original Building]
Estimated Cost	$428,400

Fiscal Event Year	2015
2011-2015 Cost	$428,400
2011-2015 Priority	High
2011-2015 Year	2015

Recommendation

2013 - Due to age and mechanical wear, the central air handlers should be replaced within the next 5 years for reliability.

May 2013 - Original Air Handlers

May 2013 - Gym Air Handler

D3050 Terminal & Package Units

Element Instance : D3050 Terminal & Package Units - Original Building

Description

2013 - The building is equipped with hot water perimeter fin tube radiators and forced flow heaters in the entrance areas which are original to the building construction dates.

Condition Assessment

2013 - Although the fin tube radiation units have been properly maintained, the system has degraded in condition over the years. Due to age and wear the unit will require replacement soon.

Last Replacement Year	1968
Theoretical Life	25

Technical Condition Fair

Replacement [D3050 Terminal & Package Units - Original Building]

Event Type: Replacement **Priority:** High

Brief Description	Replacement [D3050 Terminal & Package Units - Original Building]
Estimated Cost	$550,000
Fiscal Event Year	2017
2011-2015 Cost	$550,000
2011-2015 Priority	High
2011-2015 Year	2017

Recommendation 2013 - Replacement of the aged fin tube radiation units and forced air units is recommended based on condition and theoretical life.

May 2013 - Damaged Fin Tube Radiator Covers - Foyer

May 2013 - Original Fin Tube Radiators in Classrooms

May 2013 - Original Dirty Fin tube Radiators

D305001 Unit Ventilators

Element Instance : D305001 Unit Ventilators

Description

2013 - Several unit ventilators are located in the classrooms of the original building's circular section and provided heating and ventilation.

Condition Assessment

2013 - The unit ventilators have exceeded their rated useful life of 15 years. Although portions have been properly maintained, the system has degraded in condition over the years. Due to age and wear the unit ventilators have deteriorated, causing breakdowns and problems.

Last Replacement Year	1968
Theoretical Life	15
Technical Condition	Poor

Replacement

Event Type: Replacement **Priority:** High

Brief Description	Replacement
Estimated Cost	$76,500
Fiscal Event Year	2015
2011-2015 Cost	$76,500
2011-2015 Priority	High
2011-2015 Year	2015

Recommendation

2013 - Replacement of the aged unit ventilators is recommended. Consideration should be made to replace them with high energy efficient units.

May 2013 - Typical Unit Ventilator in Classrooms of Circular Section of School

May 2013 - Aged and Worn Unit Ventilators

D3060 Controls & Instrumentation

Element Instance : D3060 Controls & Instrumentation - Original Building

Description

2013 - The current HVAC controls are a mix of original and outdated equipment controls. The building is equipped with a building automation system for the air handlers, boilers and domestic hater heaters. The buildings controls are provided by a pneumatic controls system.

Condition Assessment

2013 - Controls have exceeded their theoretical life. Maintenance and control problems have been reported. Replacement of the aged control system is recommended. Consideration should be made to replace the system with the efficient controls and link them with the school main DDC.

Last Replacement Year	1968
Theoretical Life	15
Technical Condition	Fair

Replacement [D3060 Controls & Instrumentation - Original Building]

Event Type: Replacement **Priority:** High

Brief Description	Replacement [D3060 Controls & Instrumentation - Original Building]
Estimated Cost	$408,000
Fiscal Event Year	2016
2011-2015 Cost	$408,000
2011-2015 Priority	High
2011-2015 Year	2016

Recommendation

2013 - Removal of the existing controls and replacement with a new DDC HVAC control system. Work to include removal of the existing components and installation of new controls, including energy monitoring and electronic actuators. Coordinate with other HVAC deficiency correction projects.

May 2013 - Aged Building Automation System in Boiler Room

May 2013 - Pneumatic T-stats for Classroom Radiators

May 2013 - Pneumatic HVAC Controls

May 2013 - Pneumatic System Air Compressor

D40 Fire Protection

D4030 Fire Protection Specialties

Element Instance : D4030 Fire Protection Specialties - Original Building

Description 2013 - The fire protection system in the original building and Addition 1 includes a variety of fire extinguishers located throughout the school. The last replacement of the fire extinguishers is reported to have been in 1988.

Condition Assessment 2013 - The fire extinguishers are reportedly inspected regularly and are functional. Fire extinguishers have a rated useful life of 10 years.

Last Replacement Year	1997
Theoretical Life	10
Fire Protection Specialties Type	Fire Extinguishers
Technical Condition	Poor

Replacement [D4030 Fire Protection Specialties - Original Building]

Event Type: Replacement **Priority:** Urgent

Brief Description	Replacement [D4030 Fire Protection Specialties - Original Building]
Estimated Cost	$10,200
Fiscal Event Year	2014
2011-2015 Cost	$10,200
2011-2015 Priority	Urgent
2011-2015 Year	2014

Recommendation

2013 - Based on the age and theoretical useful life replacement of the outdated and aged fire extinguishers is recommended within the next three years.

May 2013 - Aged Fire Extinguishers

May 2013 - Aged Fire Extinguishers - Manufactured 1988

D50 Electrical

D5010 Electrical Service & Distribution

D501003 Main Switchboards

Element Instance : D501003 Main Switchboards - Original Building

Description

2013 - The main switchboard and other assemblies including main distribution panel, breaker, fuses and meters are original to 1968. The main switchboard has a 3,200 Amp 600 Volt capacity.

Condition Assessment

2013 - Although maintained properly, the switchboard and other assemblies including main distribution panel, breaker, fuses and meters has exceeded the useful life and should be replaced due to age and reliability.

Last Replacement Year	1968
Theoretical Life	42
Technical Condition	Fair

Replacement [D501003 Main Switchboards - Original Building]

Event Type: Replacement **Priority:** High

Brief Description	Replacement [D501003 Main Switchboards - Original Building]
Estimated Cost	$357,000
Fiscal Event Year	2016
2011-2015 Cost	$357,000
2011-2015 Priority	High
2011-2015 Year	2016

Recommendation

2013 - Replacement of the aged switchboard and other assemblies including main distribution panel, breaker, fuses and meters of the building is recommended.

May 2013 - Original Main Switchboard

May 2013 - Original Main Switchboard

D5020 Lighting & Branch Wiring

D502001 Branch Wiring

Element Instance : D502001 Branch Wiring - Original Building

Description

2013 - The cabling raceways and bus ducts are for the most part are original to the construction date of the original building apart from minor renovations.

Condition Assessment

2013 - The original branch wiring is mostly concealed and is presumed to be in fair condition based on the age of the system and its rated useful life.

Last Replacement Year	1968
Theoretical Life	40
Technical Condition	Fair

Replacement [D502001 Branch Wiring - Original Building]

Event Type: Replacement **Priority:** Medium

Brief Description	Replacement [D502001 Branch Wiring - Original Building]
Estimated Cost	$1,912,500
Fiscal Event Year	2016
2011-2015 Cost	$1,912,500
2011-2015 Priority	Medium
2011-2015 Year	2016

Recommendation

2013 - Based on the age and condition of the branch wiring, replacement is recommended. An intrusive study should be conducted to determine the current condition, remaining useful life cost of replacement.

May 2013 - Aged Cabling in Mechanical Room

Study

Event Type:	Study	**Priority:**	Medium

Brief Description	Study
Estimated Cost	$10,200
Fiscal Event Year	2014
2011-2015 Cost	$10,200
2011-2015 Priority	Medium
2011-2015 Year	2014

Recommendation 2013 - A study is recommended and would provide a more detailed condition, remaining useful life and cost of replacement or repair of the branch wiring system.

D502002 Lighting Equipment

Element Instance : D502002 Lighting Equipment - Original Building

Description 2013 - Exterior lighting includes wall-mounted HID fixtures, incandescent pot lighting at entrance soffits and light standards in the parking lot area.

Condition Assessment 2013 - The exterior lamps and fixtures have exceeded their rated useful life and the lamps are not energy efficient and should be replaced with high efficient lamps. Original incandescent fixtures were observed at entrance soffits, while wall-mounted fixtures were observed to be damaged or discoloured in some locations. Lighting standards are in good condition.

Last Replacement Year	1968
Theoretical Life	30
Lighting Equipment Type	Exterior Lighting
Technical Condition	Fair

Replacement [D502002 Lighting Equipment - Original Building]

Event Type: Replacement

Priority: High

Brief Description	Replacement [D502002 Lighting Equipment - Original Building]
Estimated Cost	$30,600
Fiscal Event Year	2016
2011-2015 Cost	$30,600
2011-2015 Priority	High
2011-2015 Year	2016

Recommendation

2013 - The exterior lighting fixtures are original and appear to be functional at this time, but have surpassed their anticipated service life. Replacement of existing aged lamps and fixtures with higher efficiency lamps and fixtures is recommended.

May 2013 - Original Wall Mounted Lighting Fixture

May 2013 - Typical Aged Wall Mounted Lighting Fixtures

May 2013 - Aged Soffit Lighting Fixtures

Element Instance : D502002 Lighting Equipment - Original Building

Description

2013 - Emergency lighting in the school was reportedly updated in 1998 and includes battery pack units with ceiling and wall mounted lighting fixtures.

Condition Assessment

2013 - The majority of the emergency lighting fixtures are in good condition (80%). Some emergency lighting fixtures are older than 1998 and are in fair to poor condition (20%). There is a battery bank for the emergency lighting system which is aged, corroded and in poor condition.

Last Replacement Year	1998
Theoretical Life	20
Lighting Equipment Type	Emergency Lighting
Technical Condition	Poor

Replacement [D502002 Lighting Equipment - Original Building]

Event Type: Replacement **Priority:** High

Brief Description	Replacement [D502002 Lighting Equipment - Original Building]
Estimated Cost	$20,400
Fiscal Event Year	2015
2011-2015 Cost	$20,400
2011-2015 Priority	High
2011-2015 Year	2015

Recommendation

2013 - Replacement of the battery bank and existing aged emergency lighting fixtures with higher efficiency lamps and batteries is recommended.

May 2013 - Aged and Corroded Emergency Lighting Batteries

May 2013 - Aged Emergency Lighting Fixture

May 2013 - Newer Emergency Lighting Fixture

D5030 Communications & Security

D503008 Security Systems

Element Instance : D503008 Security Systems - Original Building

Description

2013 - The building's security system was reportedly installed in 1986 and includes an alarm panel, door contacts, motion detectors, camera surveillance, conduit and wiring.

Condition Assessment

2013 - The security system is currently functioning as intended, with no major deficiencies reported. Overall, due to age and electrical wear the system is in fair condition.

Last Replacement Year	1986
Theoretical Life	25

Technical Condition Fair

Replacement [D503008 Security Systems - Original Building]

Event Type: Replacement **Priority:** Medium

Brief Description	Replacement [D503008 Security Systems - Original Building]
Estimated Cost	$61,200
Fiscal Event Year	2016
2011-2015 Cost	$61,200
2011-2015 Priority	Medium
2011-2015 Year	2016

Recommendation

2013 - Based on age and theoretical useful life the planned replacement of the security system is recommended.

May 2013 - Security System Motion Detector

May 2013 - Security System Keypad

May 2013 - Security System Panel

D503099 Other Communications & Alarm Systems

Element Instance : D503099 Other Communications & Alarm Systems

Description

2013 - The IT system in the building was estimated to be original to 2000. The school's IT system includes switching, routing equipment and servers.

Condition Assessment

2013 - The school's IT system is functioning well without complaints. However, due to the rapid growth in technology the theoretical life of the IT system is 10 years. Based on the theoretical life, the school's IT system is in fair condition and is past its rated useful life.

Last Replacement Year	2000
Theoretical Life	10
Technical Condition	Fair

Replacement

Event Type: Replacement **Priority:** Medium

Brief Description	Replacement
Estimated Cost	$102,000
Fiscal Event Year	2016
2011-2015 Cost	$102,000
2011-2015 Priority	Medium
2011-2015 Year	2016

Recommendation

2013 - Planned replacement of the school's IT system is recommended to keep the system up to date and in working condition.

May 2013 - Information Technology Equipment

D5090 Other Electrical Services

D509099 Other Special Systems and Devices

Element Instance : D509099 Other Special Systems and Devices - Duct Collector

Description

2013 - The woodshop machinery is serviced by a dust collector which is located at the exterior of the woodshop class.

Condition Assessment

2013 - The dust collector was reported to be to be working fairly well with minor issues reported. The dust collector is located outside and being exposed to the elements minor rust was visible during the time of assessment.

Last Replacement Year	1986
Theoretical Life	30
Technical Condition	Fair

Replacement

Event Type: Replacement **Priority:** High

Brief Description	Replacement

Estimated Cost	$80,000
Fiscal Event Year	2017
2011-2015 Cost	$80,000
2011-2015 Priority	High
2011-2015 Year	2017

Recommendation 2013 - Planned replacement of the dust collector is recommended in the next 5 years.

May 2013 - Dust Collector

May 2013 - Minor Corrosion of Dust Collector

G BUILDING SITEWORK

G20 Site Improvement

G2010 Roadways

Element Instance : G2010 Roadways - Site

Description 2013 - Asphalt paved roadway circling the school.

Condition Assessment 2013 - The asphalt paved roadway is exhibiting alligator cracking and some depressed areas.

Last Replacement Year	1968
Theoretical Life	20
Technical Condition	Poor

Replacement [G2010 Roadways - Site]

Event Type: Replacement **Priority:** High

Brief Description	Replacement [G2010 Roadways - Site]
Estimated Cost	$225,828
Fiscal Event Year	2015
2011-2015 Cost	$225,828
2011-2015 Priority	High
2011-2015 Year	2015

Recommendation 2013 -The asphalt-paved roadway is showing signs of alligator cracking. Replacement planning warranted.

May 2013- Alligator cracking on the surface of the roadway.

May 2013- Roadway on the North side of the building.

May 2013- Roadway on the North side of the building.

G2020 Parking Lots

Element Instance : G2020 Parking Lots - Site

Description 2013 - Asphalt paved parking lot with line painting for parking stalls.

Condition Assessment 2013 - The asphalt-paved parking lot is in poor condition with pot holes, alligator cracking and non-visible line painting.

Last Replacement Year	1968
Theoretical Life	20
Technical Condition	Poor

Replacement [G2020 Parking Lots - Site]

Event Type: Replacement **Priority:** High

Brief Description	Replacement [G2020 Parking Lots - Site]

Estimated Cost	$167,688
Fiscal Event Year	2015
2011-2015 Cost	$167,688
2011-2015 Priority	High
2011-2015 Year	2015

Recommendation

2013 - The asphalt-paved parking lot is in poor condition with pot holes and alligator cracking. Reconstruction of the parking lot is recommended.

May 2013- Parking lot on the northeast side of the building.

May 2013- Alligator cracking and potholes on the surface of parking lot.

May 2013- Parking lot on the west side of the building.

G2030 Pedestrian Paving

Element Instance : G2030 Pedestrian Paving - Site

Description

2013 - Concrete and Asphalt Paved sidewalks situated around the perimeter of the building .

Condition Assessment

2013 - The asphalt and concrete paved surfaces are showing signs of uneven and cracked surfaces with signs of vegetation growth and isolated areas of spalling and deteriorated concrete.

Last Replacement Year	1968
Theoretical Life	22

Technical Condition Fair

Replacement [G2030 Pedestrian Paving - Site]

Event Type: Replacement **Priority:** Medium

Brief Description	Replacement [G2030 Pedestrian Paving - Site]
Estimated Cost	$75,786
Fiscal Event Year	2015
2011-2015 Cost	$75,786
2011-2015 Priority	Medium
2011-2015 Year	2015

Recommendation

2013 - The concrete and asphalt paved sidewalks are showing signs of deterioration and have exceeded their effective design rated life. Replacement planning is recommended. OLD-Deterioration of the concrete walkways was observed including cracking and settlement. Brick was observed to be missing along the walkway joints and vegetation growth was observed in the joints. The walkways appear to be original to the building and are approaching the end of their useful life. Replacement of the walkways is anticipated.

May 2013- Evidence of crack concrete surface of pedestrian.

May 2013- cracked pedestrian.

May 2013- Asphalt paved pedestrian.

Hamilton-Wentworth District School Board

Report Summary

Saved Report Name	Final Report Template mod1
User Name	william lo
Report Type	Text With Pictures
Report Name	Condition Assessment
Start Year	2013
Number of Years	5
Priority	Default
Structure / Instance	Highland SS, Building ID 8247-1
Filter	Parent Criteria Summary: Structure parent - A SUBSTRUCTURE OR Structure parent - B SHELL OR Structure parent - C INTERIORS OR Structure parent - D SERVICES OR Structure parent - G BUILDING SITEWORK - where the detail criteria for the parent node is - Technical Condition <> Not Assessed ;
Asset Photos	Default Photos Only
Current Backlog FCI	No
Element Photos	No Photos
Include Element ACL Criteria	No
Exclude Elements Without Events	Yes
Include Event level details	Yes
Event Photos	All Photos
Include Costlines	No
Printed Date	10/30/2013

ATTENTION:

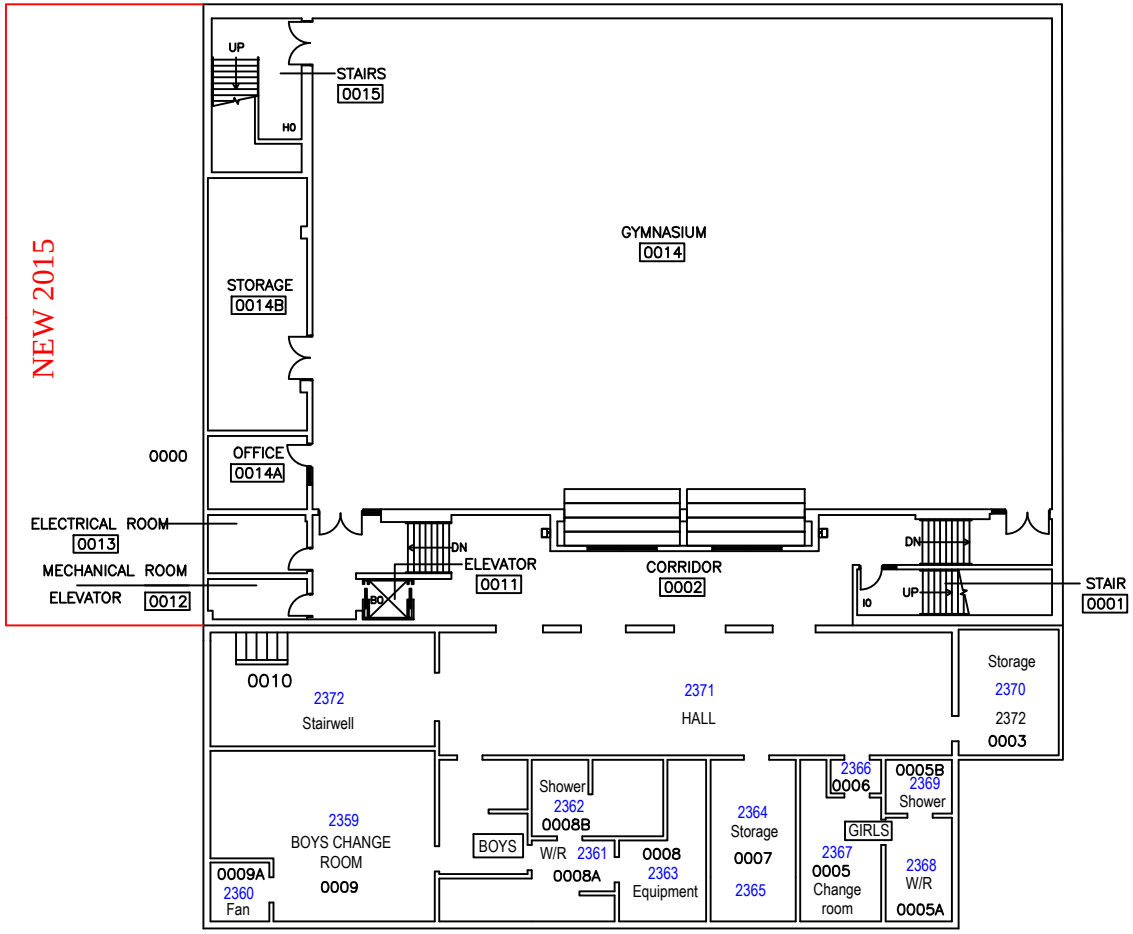
PLEASE DO NOT PHOTOCOPY OR DISTRIBUTE THIS BOOK

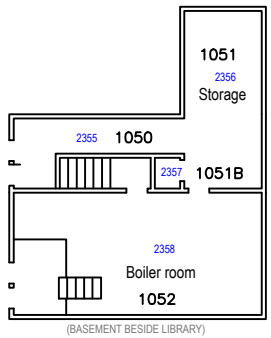
DUNDAS VALLEY WEST
(Formerly Highland)
SECONDARY SCHOOL
Asbestos Inventory

Updated NOV. 2015

Prepared by:
Regulated Substance Team (905-521-2513)
The Hamilton-Wentworth District School Board

DUNDAS VALLEY WEST
(formerly HIGHLAND) SECONDARY SCHOOL
BASEMENT





(BASEMENT BESIDE LIBRARY)

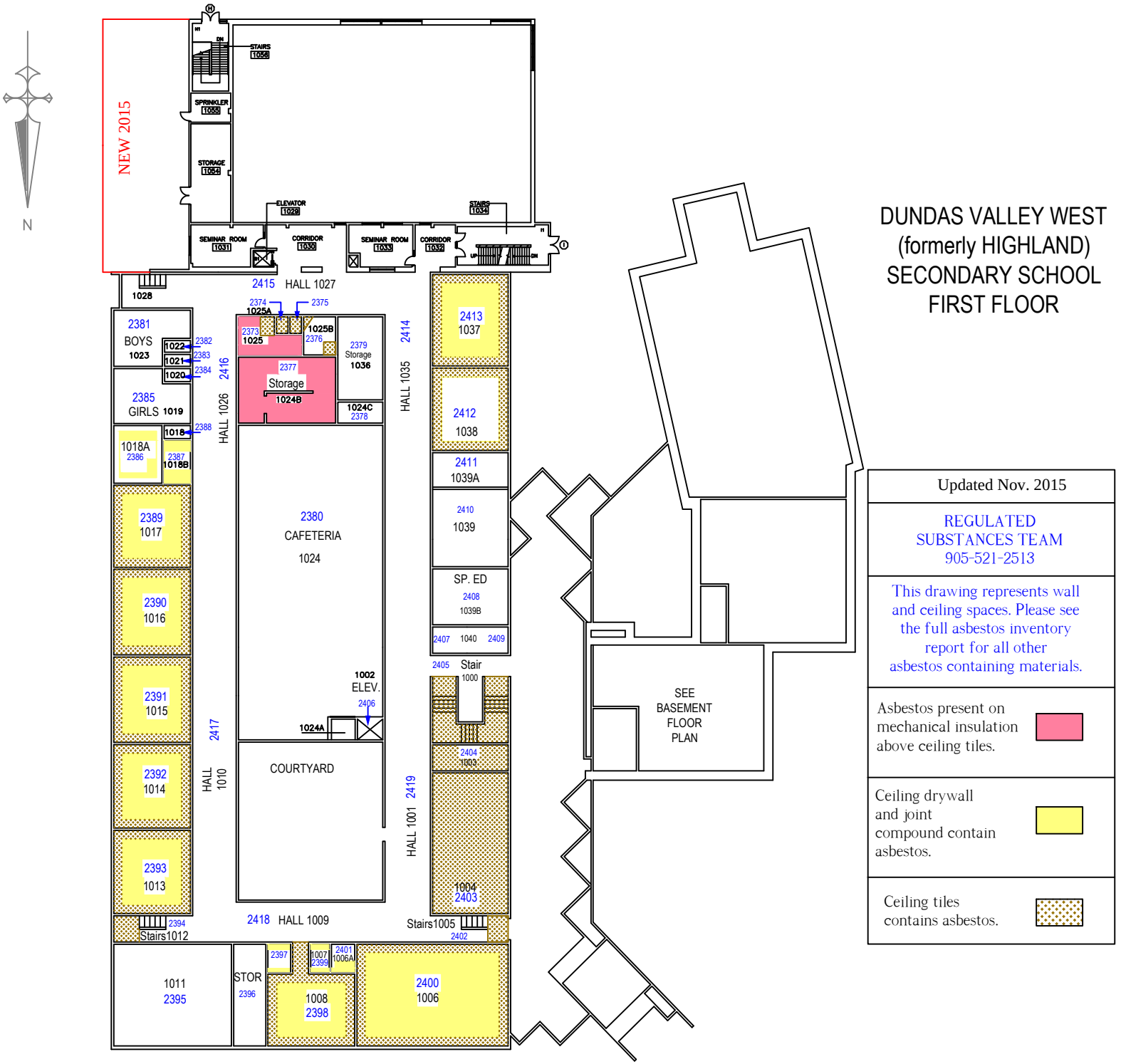
Updated Nov. 2015

Original Const: 1968
Additions: 1985; 2014
Renovations: 2014/2015

REGULATED
SUBSTANCES TEAM
905-521-2513

This drawing represents walls and ceiling spaces only. Please see the full asbestos inventory report for all other asbestos containing materials.

DUNDAS VALLEY WEST (formerly HIGHLAND) SECONDARY SCHOOL FIRST FLOOR



Updated Nov. 2015

REGULATED SUBSTANCES TEAM
905-521-2513

This drawing represents wall and ceiling spaces. Please see the full asbestos inventory report for all other asbestos containing materials.

Asbestos present on mechanical insulation above ceiling tiles.

Ceiling drywall and joint compound contain asbestos.

Ceiling tiles contains asbestos.

Updated Nov. 2015

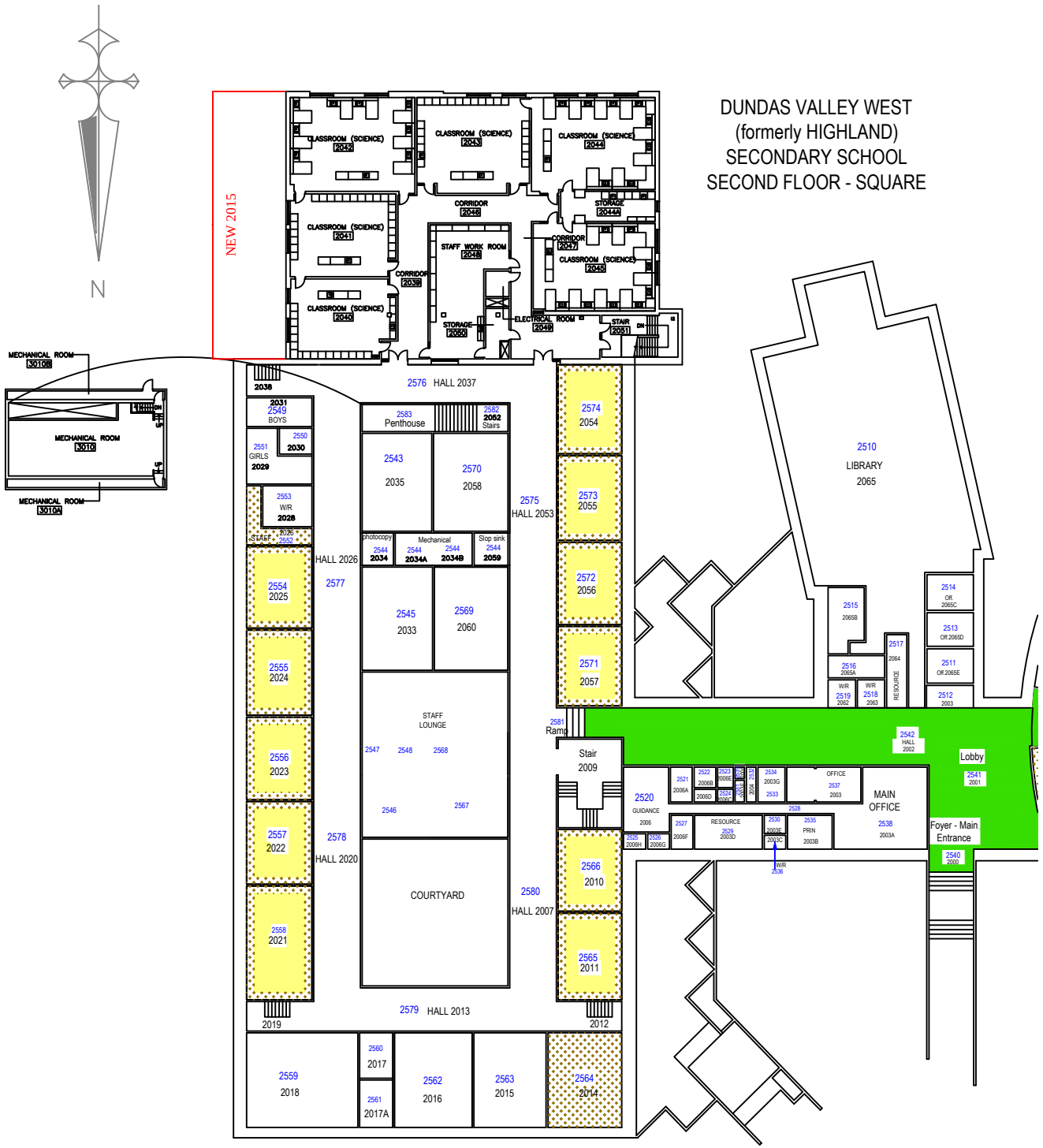
REGULATED SUBSTANCES TEAM
905-521-2513

This drawing represents wall and ceiling spaces. Please see the full asbestos inventory report for all other asbestos containing materials.

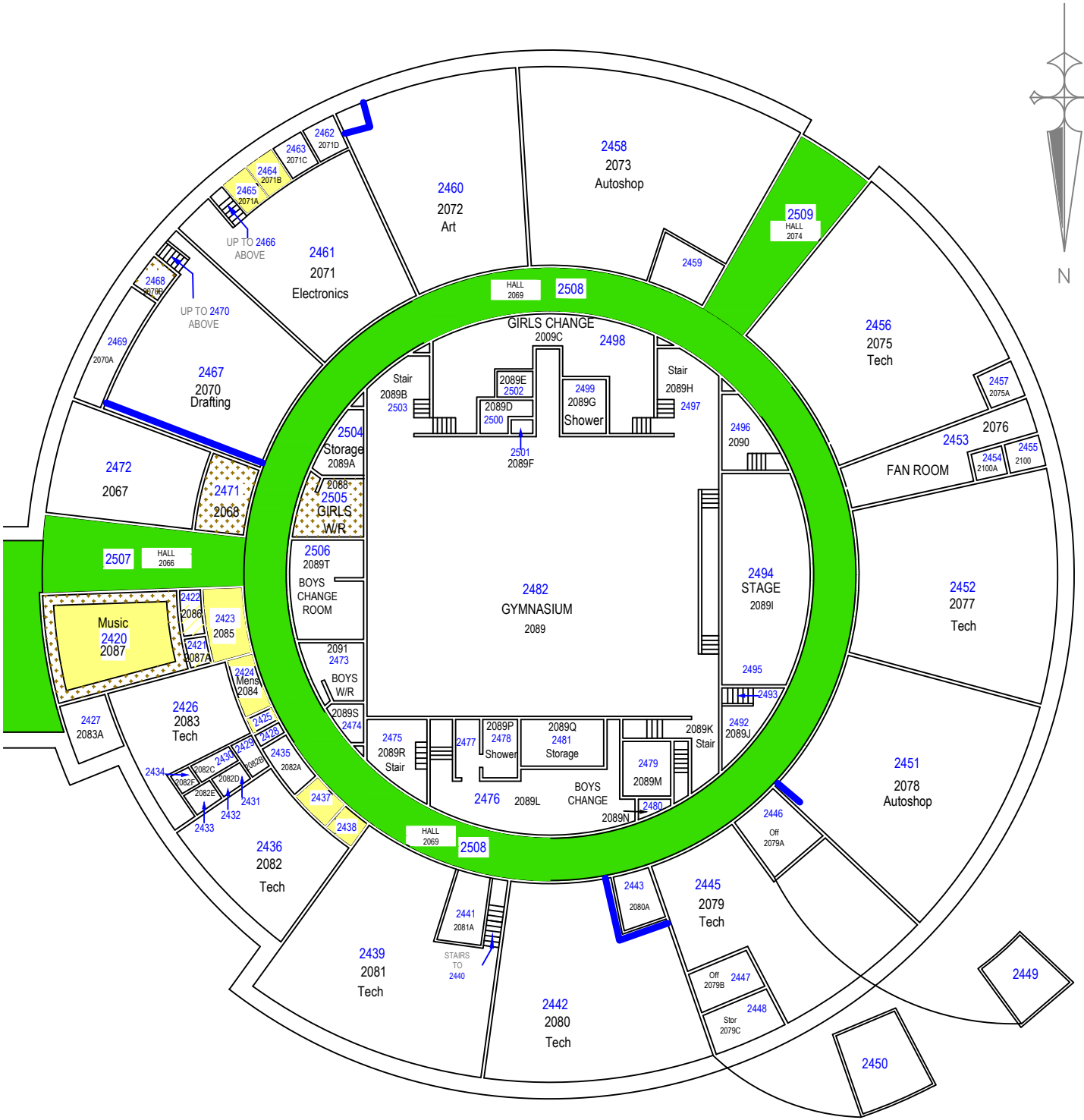
Ceiling texture coat contain asbestos.

Ceiling drywall and joint compound contain asbestos.

Ceiling tiles contains asbestos.



DUNDAS VALLEY WEST (formerly HIGHLAND) SECONDARY SCHOOL SECOND FLOOR - CIRCLE

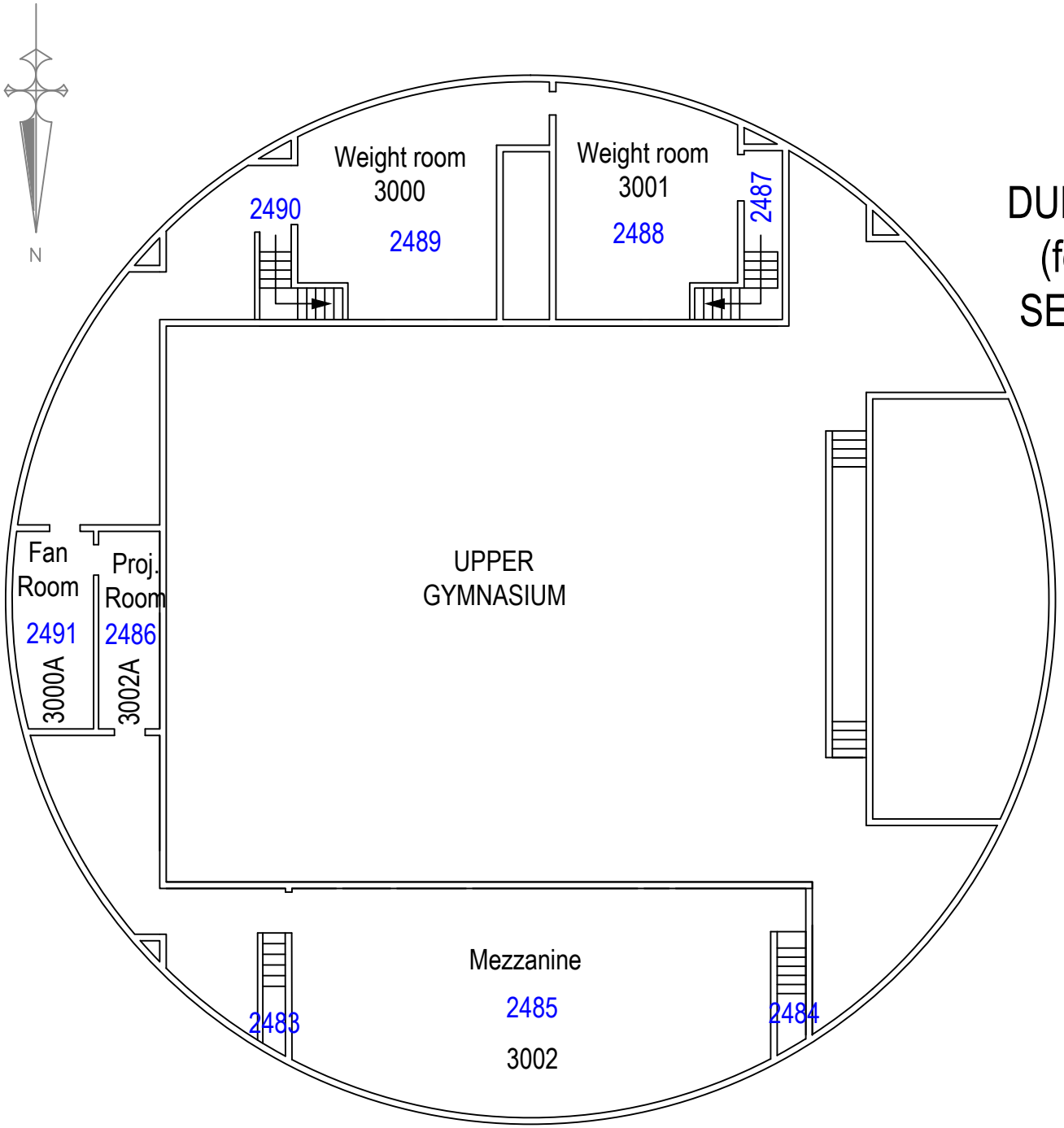


Updated Nov. 2015

This drawing represents wall and ceiling spaces. Please see the full asbestos inventory report for all other asbestos containing materials.

REGULATED SUBSTANCES TEAM
905-521-2513

Ceiling drywall and joint compound contain asbestos.	
Ceiling tiles contains asbestos.	
Transite asbestos panels present.	
Ceiling texture coat contains asbestos.	



DUNDAS VALLEY WEST (formerly HIGHLAND) SECONDARY SCHOOL GYM MEZZANINE

Updated Nov. 2015

REGULATED SUBSTANCES TEAM
905-521-2513

This drawing represents walls & ceiling spaces only. Please see the full asbestos inventory report for all other asbestos containing materials.

SUMMARY PAGE

The following designated substances are present in the school:

Asbestos *(samples taken to-date are attached to this report)*
Lead ***(Assume* Lead** *is present in the older paints. Samples taken to-date are attached to this report.* ***Lead*** *based paints are those containing greater than 0.5%* ***Lead*** *by weight)*

ASBESTOS

1x1 ceiling tiles contain Amosite asbestos
2x2 ceiling tiles contain Amosite asbestos
2x4 ceiling tiles in room 215 contain Amosite asbestos

Vinyl Asbestos floor tiles present; assume leveling coat present underneath

In Mechanical rooms - mechanical fittings and pipes contain asbestos

4 New Package boilers installed in 2012

Assume old window caulking/putty and radiators contain asbestos
Assume black acid resistant vinyl counter tops contain asbestos
Assume green and beige resin chairs and desks contain asbestos
Assume roof drains and/or collars contain asbestos
Some drywall and joint compound contains asbestos
Assume asbestos gaskets/glue present behind old black and old tack boards

Assume fire doors contain asbestos *(for non-asbestos fire doors, please see tag on door spine)*

Some incandescent light fixtures contain heat-deflecting paper with an asbestos paper backing. This is a pre-manufactured product and not considered hazardous unless worked on using power tools

Spray booths/paint booths/welding booths, fume hoods, cabinet linings, sink underlining, floor trenches, ductwork, kilns and exhaust system (when present), assume to contain asbestos

OIL TANK: Status unknown.

NOTE: Please contact the Regulated Substance Team at 905-521-2513 to co-ordinate site specific assessment & sampling of products that contain Asbestos or Lead including but not limited to wall or ceiling plaster, floor leveler, ceiling tiles etc. This specific assessment & testing must be done prior to construction or maintenance work, which will disturb materials.

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
0003	Storage room (basement)	2370	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos
0005A	Washroom - Girls	2368	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contains asbestos
0005B	Shower - Girls (basement)	2369	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos
0006	Storage - basement - Girls C/R	2366 / 2367	***Asbestos insulation present below ceiling*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contains asbestos
0007	Storage room (basement)	2364	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contains asbestos
0008	Equipment room - Boys' - basement)	2363	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contains asbestos

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff
(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
0008A	Washroom - Boys (basement)	2361	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contains asbestos
0008B	Shower - Boys (basement)	2362	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contains asbestos
0009	Boys Change room	2359	***Asbestos insulation present inside bulkhead*** * Asbestos insulation pre* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contains asbestos * Asbestos gaskets present behind old black/tack boards
0009A	Fan room - basement	2360	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contains asbestos
0010	Stairwell - basement	2372	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contains asbestos
1000	Stairwell	2405	***1x1 ceiling tiles contain asbestos*** ***Asbestos present on mechanical insulation under stairs*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff

(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
1003	Room 1003	2404	***Vinyl asbestos floor tiles -*** * leveling coat present underneath ***1x1 tiles on walls and ceiling contain Amosite asbestos*** ***Ceiling drywall and joint compound contains asbestos*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards
1004	Room 1004	2403	***1x1 tiles on walls and ceiling contain Amosite asbestos*** ***Ceiling drywall and joint compound contains asbestos*** * Spray/paint/welding booths, fume hoods, cabinet linings, ductwork, kilns and exhaust system contains asbestos * Black acid resistant counter top contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards
1005	Stairwell	2402	***1x1 Amosite ceiling tiles present*** * Unknown beneath metal panel underneath stairwell * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff

(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
1006	Room 1006	2400	***1x1 ceiling tiles contain Amosite asbestos*** ***Ceiling drywall and joint compound contains asbestos*** * Spray/paint/welding booths, fume hoods, cabinet linings, ductwork, kilns and exhause system contains asbestos * Black acid resistant counter top contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards
1006A	Storage 1006A	2401	***Vinyl asbestos floor tiles -*** * leveling coat present underneath ***Ceiling drywall and joint compound contains asbestos*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos
1007	Slop sink	2399	***Ceiling drywall and joint compound contains asbestos*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos
1008	Room 1008	2398	***Vinyl asbestos floor tiles -*** * leveling coat present underneath ***1x1 tiles on walls and ceiling contain Amosite asbestos*** ***Ceiling drywall and joint compound contains asbestos*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff
(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
1009	Hallway 1009	2418	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, old window putty/caulking and radiator contains asbestos * Asbestos gaskets present behind old black/tack boards
1010/1026	Hallway 1010/1026 (Square bldg)	2416 / 2417	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or behind lockers * Fire doors, old window putty/caulking and radiator contains asbestos * Asbestos gaskets present behind old black/tack boards
1011	Room 106 - Storage	2395/2396	***Vinyl asbestos floor tiles -*** * leveling coat present underneath ***Asbestos insulation present inside bulkhead*** * Spray/paint/welding booths, fume hoods, cabinet linings, ductwork, kilns and exhaust system contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards
1012	Stairwell	2394	***1x1 Amosite ceiling tiles present above drywall ceiling*** * Unknown beneath metal panel underneath stairwell * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff

(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
1013	Room 1013	2393	***Vinyl asbestos floor tiles -*** * leveling coat present underneath ***1x1 tiles on walls and ceiling contain Amosite asbestos*** ***Ceiling drywall and joint compound contains asbestos*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards
1014	Room 1014	2392	***Vinyl asbestos floor tiles -*** * leveling coat present underneath ***1x1 tiles on walls and ceiling contain Amosite asbestos*** ***Ceiling drywall and joint compound contains asbestos*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards
1015	Room 1015	2391	***Vinyl asbestos floor tiles -*** * leveling coat present underneath ***1x1 tiles on walls and ceiling contain Amosite asbestos*** ***Ceiling drywall and joint compound contains asbestos*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff

(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
1016	Room 1016	2390	***Vinyl asbestos floor tiles -*** * leveling coat present underneath ***1x1 tiles on walls and ceiling contain Amosite asbestos*** ***Ceiling drywall and joint compound contains asbestos*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards
1017	Room 1017	2389	***Vinyl asbestos floor tiles -*** * leveling coat present underneath ***1x1 tiles on walls and ceiling contain Amosite asbestos*** ***Ceiling drywall and joint compound contains asbestos*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards
1018A	Office - Caretaker	2386 & 2388	***Drywall & joint compound on ceiling contains asbestos*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contains asbestos
1018B	Office - Caretaking	2387	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos
1019	Washroom - Girls (1st floor)	2385	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors and old window putty.caulking contain asbestos

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff

(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
1020	Storage 1020	2384	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contains asbestos
1021	Storage 1021	2383	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contains asbestos
1022	Storage 1022	2382	***Asbestos insulation present above drywall ceiling*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contains asbestos
1023	Washroom - Boys (1st floor)	2381	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors and old window putty.caulking contain asbestos
1024	Cafeteria	2380	*Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors, radiator and old window putty/caulking contains asbestos
1024B	Cafeteria - Kitchen	2377	***Asbestos insulation present above & below ceiling tiles*** ***Asbestos insulation present inside bulkhead*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contains asbestos

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff
(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
1024C	Storage 1024C	2378	***2x2 ceiling tiles contain Amosite asbestos*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contains asbestos
1025	Storage room - Cafeteria	2373	***2x2 ceiling tiles contain Amosite asbestos*** ***Asbestos present on mechanical insulation above 2x4 ceiling tiles*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contains asbestos * Roof drain and/or collar contain asbestos
1025A	Cafeteria - Washroom	2374	***2x2 ceiling tiles contain Amosite asbestos*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contains asbestos
1025B	Cafeteria - Storage	2376	***2x2 ceiling tiles contain Amosite asbestos*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contains asbestos
1027	Hallway 1027	2415	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or behind lockers * Fire doors, old window putty/caulking and radiator contains asbestos * Asbestos gaskets present behind old black/tack boards

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff
(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
1035	Hallway 1035 (Square bldg)	2414 / 2419	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or behind lockers * Fire doors, old window putty/caulking and radiator contains asbestos * Asbestos gaskets present behind old black/tack boards
1036	Storage 1036	2379	***Vinyl asbestos floor tiles -*** * leveling coat present underneath * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contains asbestos
1037	Room 1037	2413	***Vinyl asbestos floor tiles -*** * leveling coat present underneath ***1x1 tiles on walls and ceiling contain Amosite asbestos*** ***Ceiling drywall and joint compound contains asbestos*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards
1038	Room 1038	2412	***Vinyl asbestos floor tiles -*** * leveling coat present underneath ***1x1 tiles on walls and ceiling contain Amosite asbestos*** ***Ceiling drywall and joint compound contains asbestos*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, window putty/caulking and radiator contain asbestos

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff
(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
1039	Special Education	2410	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors and radiator contain asbestos
1039A	Special Needs Washroom	2411	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors and radiator contain asbestos
1039B	Special Educ	2408	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors and radiator contains asbestos
1040	Kitchenette	2407/2409	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
1050	Stairwell - basement by boiler room	2355	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contains asbestos
1051	Boiler storage room - basement	2356	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above plaster ceiling * Fire doors contains asbestos

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff
(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
1051B	Storage under stairwell - basement	2357	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos
1052	Boiler room (basement)	2358	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contains asbestos
2000/2001	Lobby - Main Entrance	2540 / 2541	***Ceiling texture coat contains asbestos*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contains asbestos
2002	Hallway 2002 - 2nd floor (across main office)	2542	***Vinyl asbestos floor tiles*** - * leveling coat present underneath * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos * Asbestos gaskets present behind old black/tack boards
2003	Office (Main) - Waiting area	2537	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
2003A	Office - Main	2538	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos

Confirmed asbestos items are highlighted

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(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
2003B	Office - Principal	2535	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
2003C	Washroom - Principal	2536	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors, radiator and old window putty/caulking contain asbestos
2003D	Office 2003D	2529	***Vinyl asbestos floor tiles -*** * leveling coat present underneath * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos
2003F	Office 2003F	2531	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
2003G	Office	2533/2534	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
	Office - corridor	2528	***Vinyl asbestos floor tiles -*** * leveling coat present underneath * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos

Confirmed asbestos items are highlighted

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(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
2004	Office	2532	***Vinyl asbestos floor tiles -*** * leveling coat present underneath * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos
2006	Guidance Office (main office)	2520	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contains asbestos
2006A	Guidance Office	2521	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
2006B	Office 2006B	2522	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
2006C	Office 2006C	2524	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
2006E	Office 2006E	2523	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos

Confirmed asbestos items are highlighted

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(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
2006F	Office 2006F	2527	***Vinyl asbestos floor tiles -*** * leveling coat present underneath * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
2006G	Office 2006G	2526	***Vinyl asbestos floor tiles -*** * leveling coat present underneath * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
2006H	Office 2006H	2525	***Vinyl asbestos floor tiles -*** * leveling coat present underneath * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
2007/2053	Hallway 2007/2053 (Square bldg)	2775 / 2580	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
2009C	Gym - Change room - Girls	2498	***Asbestos present on mechanical insulation on duct work and below ceiling*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff
(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
2010	Room 2010	2566	***1x1 tiles on walls and ceilings contain Amosite asbestos*** ***Drywall and joint compound on ceiling contain asbestos*** ***Vinyl asbestos floor tiles present*** - * leveling coat present underneath * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards
2011	Room 2011	2565	***1x1 tiles on walls and ceilings contain Amosite asbestos*** ***Drywall and joint compound on ceiling contain asbestos*** ***Vinyl asbestos floor tiles present*** - * leveling coat present underneath * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards
2013	Hallway 2013	2579	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
2014	Room 2014	2564	***1x1 tiles on walls and ceilings contain Amosite asbestos*** ***Drywall and joint compound on ceiling contain asbestos*** ***Vinyl asbestos floor tiles present*** - * leveling coat present underneath * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff
(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
2015	Room 2015	2563	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors, radiator and old window putty/caulking contain asbestos
2016	Room 2016	2562	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors, radiator and old window putty/caulking contain asbestos
2017	Storage 2017	2560	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
2017A	Storage 2017A	2561	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors, old window putty/caulking and radiator contain asbestos
2018	Room 2018	2559	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors, radiator and old window putty/caulking contain asbestos
2020/2026	Hallway 2020/2026 (Square bldg)	2577 / 2578	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos

Confirmed asbestos items are highlighted

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(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
2021	Room 2021	2558	***1x1 tiles on walls and ceilings contain Amosite asbestos*** ***Drywall and joint compound on ceiling contain asbestos*** ***Vinyl asbestos floor tiles present*** - * leveling coat present underneath * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards
2022	Room 2022	2557	***1x1 tiles on walls and ceilings contain Amosite asbestos*** ***Drywall and joint compound on ceiling contain asbestos*** ***Vinyl asbestos floor tiles present*** - * leveling coat present underneath * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards
2023	Room 2023	2556	***1x1 tiles on walls and ceilings contain Amosite asbestos*** ***Drywall and joint compound on ceiling contain asbestos*** ***Vinyl asbestos floor tiles present*** - * leveling coat present underneath * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff

(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
2024	Room 2024	2555	***1x1 tiles on walls and ceilings contain Amosite asbestos*** ***Drywall and joint compound on ceiling contain asbestos*** ***Vinyl asbestos floor tiles present*** - * leveling coat present underneath * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards
2025	Room 2025	2554	***Vinyl asbestos floor tiles -*** * leveling coat present underneath ***1x1 tiles on walls and ceiling contain Amosite asbestos*** ***Ceiling drywall and joint compound contains asbestos*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards
2026	Staff Room	2552	***1x1 tiles on walls and ceiling contain Amosite asbestos*** ***Ceiling drywall and joint compound contains asbestos*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards
2028	Staff Washroom	2553	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors and radiator contain asbestos

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff

(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
2029	Girl's washroom	2551	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors, old window putty/caulking and radiator contain asbestos
2030	Slop sink	2550	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors, old window putty/caulking and radiator contain asbestos
2031	Boys' Washroom	2549	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors, old window putty/caulking and radiator contain asbestos
2033	Room 2033	2545	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
	Staff room	2546/2547/ 2548/2567/ 2568	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls y * Fire doors contain asbestos
2034	Room 2034	2544	* Black acid resistant counter top contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos

Confirmed asbestos items are highlighted

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(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
2035	Room 2035	2543	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Black acid resistant counter top contains asbestos * Fire doors contain asbestos
2037	Hallway 2037 (by science labs)	2576	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
2054	Room 2054	2574	***1x1 tiles on walls and ceilings contain Amosite asbestos*** ***Drywall and joint compound on ceiling contain asbestos*** ***Vinyl asbestos floor tiles present*** - * leveling coat present underneath * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards
2055	Room 2055	2573	***1x1 tiles on walls and ceilings contain Amosite asbestos*** ***Drywall and joint compound on ceiling contain asbestos*** ***Vinyl asbestos floor tiles present*** - * leveling coat present underneath * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff

(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
2056	Room 2056	2572	***1x1 tiles on walls and ceilings contain Amosite asbestos*** ***Drywall and joint compound on ceiling contain asbestos*** ***Vinyl asbestos floor tiles present*** - * leveling coat present underneath * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards
2057	Room 2057	2571	***1x1 tiles on walls and ceilings contain Amosite asbestos*** ***Drywall and joint compound on ceiling contain asbestos*** ***Vinyl asbestos floor tiles present*** - * leveling coat present underneath * Spray/paint/welding booths, fume hoods, cabinet linings, ductwork, kilns and exhaust system contains asbestos * Black acid resistant counter top contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards
2058	Room 2058	2570	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
2060	Room 2060	2569	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff
(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
2062	Library - Men staff washroom	2519	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contains asbestos
2063	Library - Ladies staff washroom	2518	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contains asbestos
2064	Library - Resource	2517	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contains asbestos
2065	Library	2510	***Vinyl asbestos floor tiles -*** * leveling coat present underneath ***Cover on air unit (on roof) contains asbestos*** * Asbestos insulation present inside bulkhead * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
2065A	Library - Office	2516	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contains asbestos
2065B	Library - Media room	2515	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contains asbestos

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff
(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
2065C	Library - Media 1	2514	***Vinyl asbestos floor tiles*** - * leveling coat present underneath * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors, old window putty/caulking and radiator contain asbestos
2065D	Library - Office 2	2513	***Vinyl asbestos floor tiles*** - * leveling coat present underneath * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors, old window putty/caulking and radiator contain asbestos
2065E	Library - Office 1	2511	***Vinyl asbestos floor tiles*** - * leveling coat present underneath * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors and radiator contain asbestos
2066	Hallway 2067 - Gym	2507	***Ceiling texture coat contains asbestos*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling or behind lockers * Fire doors contain asbestos

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff

(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
2067	Room 2067	2472	***Vinyl asbestos floor tiles present*** - * leveling coat present underneath * Spray/paint/welding booths, fume hoods, cabinet linings, ductwork, kilns and exhaust system contains asbestos * Black acid resistant counter top contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards
2068	Room 2068	2471	***2x4 ceiling tiles contain Amosite asbestos*** ***Asbestos present on mechanical insulation above and below ceiling tiles*** ***Vinyl asbestos floor tiles present*** - * leveling coat present underneath * Spray/paint/welding booths, fume hoods, cabinet linings, ductwork, kilns and exhaust system contains asbestos * Black acid resistant counter top contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards
2069	Hallway 2069 - (circle hall)	2508	***Ceiling texture coat contains asbestos*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling or behind lockers * Fire doors contain asbestos ***CAUTION: Pipe hanger insulation contains asbestos - inside tunnel***

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff

(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
2070	Room 2070 - Drafting	2467	***Kilns contain asbestos*** ***Asbestos present on mechanical insulation below ceiling and under sink*** ***Transite asbestos panels present on walls*** * Spray/paint/welding booths, fume hoods, cabinet linings, ductwork and exhaust system contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos * Asbestos gaskets present behind old black/tack boards
2070A	Storage 2070A	2469	***Asbestos present on mechanical insulation below ceiling*** * Spray/paint/welding booths, fume hoods, cabinet linings, ductwork, kilns and exhaust system contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
2070B	Room 2070B - Storage	2468	* Spray/paint/welding booths, fume hoods, cabinet linings, ductwork, kilns and exhaust system contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
	Room 2070 Mezzanine storage	2470	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff
(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
2071	Room 2071 - Electronics	2461	***Asbestos present on mechanical insulation below ceiling*** * Spray/paint/welding booths, fume hoods, cabinet linings, ductwork, kilns and exhaust system contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
2071A/B	Storage 2071A/B	2464 / 2465	***Drywall and joint compound on ceiling contain asbestos*** * Spray/paint/welding booths, fume hoods, cabinet linings, ductwork, kilns and exhaust system contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
2071D	Storage 2071D	2462 / 2463	* Spray/paint/welding booths, fume hoods, cabinet linings, ductwork, kilns and exhaust system contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
	Room 2071 - Mezzanine storage	2466	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff
(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
2072	Room 2072 - Art room	2460	***Kilns contain asbestos*** ***Asbestos present on mechanical insulation below ceiling*** ***Transite asbestos panel present on exhaust system hood*** * Spray/paint/welding booths, fume hoods, cabinet linings, ductwork and exhaust system contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos * Asbestos gaskets present behind old black/tack boards
2073	Room 2073 - Autoshop	2458/2059	***Asbestos present on mechanical insulation below ceiling*** * Spray/paint/welding booths, fume hoods, cabinet linings, ductwork, kilns and exhaust system contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
2074	Hallway 2074 - Gym	2509	***Ceiling texture coat contains asbestos*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling or behind lockers * Fire doors contain asbestos

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff

(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
2075	Room 2075	2456	***Asbestos present on mechanical insulation below ceiling*** * Spray/paint/welding booths, fume hoods, cabinet linings, ductwork, kilns and exhaust system contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
2075A	Office 2075A	2457	* Spray/paint/welding booths, fume hoods, cabinet linings, ductwork, kilns and exhaust system contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
2076	Fan room	2453	***Asbestos present on mechanical insulation below ceiling*** * Spray/paint/welding booths, fume hoods, cabinet linings, ductwork, kilns and exhaust system contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
2077	Room 2077 - Welding shop	2452	***Transite asbestos panels present on fumehood*** * Spray/paint/welding booths, cabinet linings, ductwork, kilns and exhaust system contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff
(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
2078	Room 2078 - Autoshop	2451	***Vinyl asbestos floor tiles present*** - * leveling coat present underneath ***Asbestos present on mechanical insulation below ceiling*** ***Transite asbestos panel present from old welding booth*** * Spray/paint/welding booths, fume hoods, cabinet linings, ductwork, kilns and exhaust system contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos * Asbestos gaskets present behind old black/tack boards
2079	Room 2079 - Woodshop	2445	***Asbestos present on mechanical insulation below ceiling*** * Spray/paint/welding booths, fume hoods, cabinet linings, ductwork, kilns and exhaust system contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos * Asbestos gaskets present behind old black/tack boards * Roof drain and/or collar contain asbestos
2079A	Office 2079A	2446/2449	* Spray/paint/welding booths, fume hoods, cabinet linings, ductwork, kilns and exhaust system contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos * Asbestos gaskets present behind old black/tack boards

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff

(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
2079B	Office 2079B	2447	* Spray/paint/welding booths, fume hoods, cabinet linings, ductwork, kilns and exhaust system contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos * Asbestos gaskets present behind old black/tack boards
2079C	Office 2079C	2448/2450	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors and radiator contain asbestos
2080	Room 2080	2442	***Transite asbestos panels present on walls*** * Spray/paint/welding booths, fume hoods, cabinet linings, ductwork, kilns and exhaust system contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos * Asbestos gaskets present behind old black/tack boards
2080A	Storage 2080A	2443	***Vinyl asbestos floor tiles -*** * leveling coat present underneath ***Transite asbestos panels present on walls*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff

(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
2081	Room 2081	2439	* Spray/paint/welding booths, fume hoods, cabinet linings, ductwork, kilns and exhaust system contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards
2081A	Room 2081A	2440/2441	* Spray/paint/welding booths, fume hoods, cabinet linings, ductwork, kilns and exhaust system contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos * Asbestos gaskets present behind old black/tack boards
2082	Room 2082A	2436	***Vinyl asbestos floor tiles present*** - * leveling coat present underneath ***Asbestos present on mechanical insulation below ceiling*** * Spray/paint/welding booths, fume hoods, cabinet linings, ductwork, kilns and exhaust system contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards
2082A	Room 2082A	2435	***Vinyl asbestos floor tiles -*** * leveling coat present underneath ***Drywall & joint compound on ceiling contain asbestos*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff

(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
2082B	Storage 2082B	2429	***Vinyl asbestos floor tiles*** - * leveling coat present underneath * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors, old window putty/caulking and radiator contain asbestos
2082C	Storage 2082C	2430	***Vinyl asbestos floor tiles*** - * leveling coat present underneath * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors, old window putty/caulking and radiator contain asbestos
2082D	Storage 2082D	2431/2432	***Vinyl asbestos floor tiles*** - * leveling coat present underneath * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors, old window putty/caulking and radiator contain asbestos
2082E	Storage 2082E	2433	***Vinyl asbestos floor tiles*** - * leveling coat present underneath * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors, old window putty/caulking and radiator contain asbestos
2082F	Storage 2082F	2434	***Vinyl asbestos floor tiles*** - * leveling coat present underneath * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors, old window putty/caulking and radiator contain asbestos

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff
(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
2083	Room 2083	2426	***Vinyl asbestos floor tiles present*** - * leveling coat present underneath ***Asbestos present on mechanical insulation below ceiling*** * Spray/paint/welding booths, fume hoods, cabinet linings, ductwork, kilns and exhaust system contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards
2083A	Storage 2083A	2427	***Vinyl asbestos floor tiles present*** - * leveling coat present underneath * Spray/paint/welding booths, fume hoods, cabinet linings, ductwork, kilns and exhaust system contains asbestos * Black acid resistant counter top contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards
	Vestibule (rm. 2083	2425/2428	***Vinyl asbestos floor tiles -*** * leveling coat present underneath ***Drywall & joint compound on ceiling contain asbestos*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff

(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
2084	Men's Washroom	2424	***Vinyl asbestos floor tiles -*** * leveling coat present underneath ***Drywall & joint compound on ceiling contain asbestos*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos
2085	Room 2085	2423	***Drywall and joint compound on ceiling contain asbestos*** ***Vinyl asbestos floor tiles present*** - * leveling coat present underneath * Spray/paint/welding booths, fume hoods, cabinet linings, ductwork, kilns and exhaust system contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos * Asbestos gaskets present behind old black/tack boards
2086	Office - 2086	2422	***Vinyl asbestos floor tiles present*** - * leveling coat present underneath * Spray/paint/welding booths, fume hoods, cabinet linings, ductwork, kilns and exhaust system contains asbestos * Black acid resistant counter top contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff

(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
2087	Room 2087	2420	***1x1 ceiling tiles contain Amosite asbestos*** ***Drywall and joint compound on ceiling contain asbestos*** ***Vinyl asbestos floor tiles present*** - * leveling coat present underneath * Spray/paint/welding booths, fume hoods, cabinet linings, ductwork, kilns and exhaust system contains asbestos * Black acid resistant counter top contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors, radiator and old window putty/caulking contain asbestos * Asbestos gaskets present behind old black/tack boards
2088	Gym - Girls Washroom	2505	***1x1 ceiling tiles contain asbestos*** * * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos
2089	Gymnasium	2482	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos
2089B	Stairs - Gym	2503	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff
(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
2089D	Gym - Girls - Phys. Ed. Office 2089D	2500	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos
2089E	Gym - Girls - Phys. Ed. Office 2089E	2502	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos
2089F	Gym - Girls' Phys. Ed. Office - Washroom	2501	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos
2089G	Gym - Girls' - shower room	2499	***Asbestos present on mechanical insulation and below ceiling*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos
2089H	Stairwell - Girls' Change room	2497	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff
(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
2089I	Stage	2494/2495	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
2089J	Gym - Mezzanine - Storage	2492	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos
2089L	Gym - Change room - Boys	2476	***Asbestos present on mechanical insulation on duct work and below ceiling*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos
2089M	Gym - Boys - Phys. Ed. Office	2479	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos
2089N	Gym - Boys' Phys. Ed. Office - Washroom	2480	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff
(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	*AREA DESCRIPTION*	*LOCATION ID*	*ASBESTOS MATERIALS*
2089P	Boy's shower - Gym	2477/2078	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos
2089Q	Storage 2089Q - Gym	2481	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos
2089R	Stairs 2089R - Gym	2475	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos
2089S	Storage 2089S - Gym	2474	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos
2089T	Gym - Team room - Boys	2506	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos
2090	Storage - Stage	2496	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff
(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	AREA DESCRIPTION	LOCATION ID	ASBESTOS MATERIALS
2091	Gym - Boys washroom	2473	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contains asbestos
2100	Storage 2100	2455	* Spray/paint/welding booths, fume hoods, cabinet linings, ductwork, kilns and exhaust system contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
2100A	Storage 2100A	2454	* Spray/paint/welding booths, fume hoods, cabinet linings, ductwork, kilns and exhaust system contains asbestos * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
2581	Wheel chair ramp - 2nd floor	2581	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls * Fire doors contain asbestos
3000	Gym - Mezzanine - Weight room 3000	2489	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff
(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	***AREA DESCRIPTION***	***LOCATION ID***	***ASBESTOS MATERIALS***
3000A	Gym - Mezzanine - Fan room	2491	***Asbestos present on mechanical insulation on duct work and below ceiling*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos
3001	Gym - Mezzanine - Weight room 3001	2488	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos
3002	Gym - Mezzanine	2485	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos
3002A	Gym - Fan room - projection room	2486	***Asbestos present on mechanical insulation and below ceiling*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos
2082 - Storage	Music room - Storage	2437/2438	***Vinyl asbestos floor tiles -*** * leveling coat present underneath ***Drywall & joint compound on ceiling contain asbestos*** * Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls y * Fire doors contain asbestos
	Gym - Mezzanine - stairs to balcony	2483	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff
(For non-asbestos fire doors, please see tag on door spine)

NEW ROOM NUMBERS	AREA DESCRIPTION	LOCATION ID	ASBESTOS MATERIALS
	Gym - Mezzanine - stairs to balcony	2484	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos
	Gym - Mezzanine - stairs to weight room 3001	2487	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos
	Gym - Mezzanine - stairs to weight room 3000	2490	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos
	Gym - Mezzanine - Storage loft	2493	* Prior to demolition, HWDSB must confirm the presence or lack of Asbestos Containing Materials (ACM) behind walls or above ceiling * Fire doors contain asbestos

Confirmed asbestos items are highlighted

***** Material is assumed to contain asbestos until confirmed by competent staff
(For non-asbestos fire doors, please see tag on door spine)

- 4 -
Results

Section 4 Results

Materials that were suspected of being asbestos-containing were grouped homogeneously; that is, they were grouped as to similar composition (colour, texture), system and general appearance (age, type, etc.). Collected samples were organized by the mechanical or structural system (i.e. wall, floor and ceiling materials).

Samples were also described as being friable or non-friable. Friable describes a material that is loose in composition and can be pulverized by hand pressure. Non-friable materials are materials which indicate a solid composition requiring power tools for the pulverization of the material.

4.1 Homogeneous Materials

The following table represents all of the homogeneous materials identified within Highland Secondary School, including the analytical results and friability of each product.

Table 1 - Homogeneous Materials within Highland Secondary School

Table Notes:
1. Shading of homogeneous materials indicates asbestos minerals were detected above 0.5%.
2. Complete laboratory results are provided in Appendix A.

Homogeneous Number	Location ID (OESN Functional Space Location)	Material and Building Floor	Friability	Asbestos Content and Type	Sample Number
		Floor Materials			
HF-01	-	Floor Tile – 9"x9"	Non-Friable	**Chrysotile**	Not Sampled
HF-02	-	Floor Tile – 12"x 12"	Non-Friable	**Chrysotile**	Not Sampled
HF-03	-	Floor Tile (HWDSB Renovations)	Non-Friable	Non-Asbestos	***See Appendix D**
		Wall Materials			
		1968			
HW-68-01	**2430** (2011)	Drywall and Joint Compound	Friable	Non-Asbestos Non-Asbestos	2975-09-W01 2975-09-W02
	2442 (2023)			Non-Asbestos	2975-09-W03
	2544 (3002)			Non-Asbestos Non-Asbestos	2975-09-W04 2975-09-W05
	2387 (1015)			Non-Asbestos Non-Asbestos	2975-09-W06 2975-09-W07
HW-68-02	**2460** (2040)	Smooth Cementitious Panel	Non-Friable	**25% Chrysotile**	2975-09-W08
	2467 (2047)			Not Analyzed Not Analyzed	2975-09-W09 2975-09-W10
HW-68-03	**2461** (2041)	Joint Compound on Wood	Friable	Non-Asbestos Non-Asbestos Non-Asbestos	2975-09-W11 2975-09-W12 2975-09-W13
HW-68-04	**2578** (3036)	Smooth Plaster	Non-Friable	Non-Asbestos Non-Asbestos	2975-09-W39 2975-09-W40
	2380 (1008)			Non-Asbestos Non-Asbestos Non-Asbestos	2975-09-W41 2975-09-W42 2975-09-W43

Homogeneous Number	Location ID (OESN Functional Space Location)	Material and Building Floor	Friability	Asbestos Content and Type	Sample Number
		Wall Materials (Contined)			
		1968			
HW-68-05	**2575** (3033)	Grey Drywall and Joint Compound	Friable	Non-Asbestos	2975-09-W19
				Non-Asbestos	2975-09-W20
	2576 (3034)			Non-Asbestos	2975-09-W21
				Non-Asbestos	2975-09-W22
	2416 (1044)			Non-Asbestos	2975-09-W23
				Non-Asbestos	2975-09-W24
				Non-Asbestos	2975-09-W25
HW-68-06	**2582** (P001)	Skim Coat	Non-Friable	Non-Asbestos	2975-09-W26
				Non-Asbestos	2975-09-W27
				Non-Asbestos	2975-09-W28
				Non-Asbestos	2975-09-W29
				Non-Asbestos	2975-09-W30
HW-68-07	**2472** (2052)	1' x 1' Perforated Panels	Non-Friable	Non-Asbestos	2975-09-W36
				Non-Asbestos	2975-09-W37
				Non-Asbestos	2975-09-W38
		1985			
HW-85-01	**2510** (2090)	Drywall and Joint Compound	Friable	Non-Asbestos	2975-09-W31
				Non-Asbestos	2975-09-W32
				Non-Asbestos	2975-09-W33
				Non-Asbestos	2975-09-W34
				Non-Asbestos	2975-09-W35
HW-85-02	**2355** (B001)	Skim Coat	Non-Friable	Non-Asbestos	2975-09-W14
				Non-Asbestos	2975-09-W15
				Non-Asbestos	2975-09-W16
				Non-Asbestos	2975-09-W17
				Non-Asbestos	2975-09-W18

Homogeneous Number	Location ID (OESN Functional Space Location)	Material and Building Floor	Friability	Asbestos Content and Type	Sample Number
		Ceiling Materials			
		1968			
HC-68-01	**2437** (2018)	Drywall and Joint Compound	Friable	**1.5% Chrysotile**	2975-09-C83
				1.4% Chrysotile	2975-09-C84
	2539 (2119)			**1.2% Chrysotile**	2975-09-C85
	2544 (3002)			**1.4% Chrysotile**	2975-09-C86
				1.0% Chrysotile	2975-09-C87
	2387 (1015)			**1.2% Chrysotile**	2975-09-C88
	2372 (B018)			Non-Asbestos	2975-09-C89
HC-68-02	**2505** (2085)	Ceiling Tile – 1'x1' Multidot	Non-Friable	**3% Amosite** **<1% Chrysotile**	2975-09-C10
				Not Analyzed	2975-09-C11
				Not Analyzed	2975-09-C12
HC-68-03	**2433** (2014)	Ceiling Tile – 2' x 4' Random Fissure	Non-Friable	Non-Asbestos	2975-09-C37
				Non-Asbestos	2975-09-C38
				Non-Asbestos	2975-09-C39
HC-68-04	**2520** (2100)	Ceiling Tile - 1' x 1' Fissure	Non-Friable	**3% Chrysotile** **2% Amosite**	2975-09-C16
				Not Analyzed	2975-09-C17
				Not Analyzed	2975-09-C18
HC-68-05	**2471** (2051)	Ceiling Tile – 2' x 4' Fissure on 2'	Non-Friable	Non-Asbestos	2975-09-C01
				Non-Asbestos	2975-09-C02
				Non-Asbestos	2975-09-C03
HC-68-06	**2471** (2051)	Ceiling Tile – 2' x 4' Multidot	Non-Friable	Non-Asbestos	2975-09-C04
				Non-Asbestos	2975-09-C05
				Non-Asbestos	2975-09-C06
HC-68-07	**2471** (2051)	Ceiling Tile – 2' x 4' Snowflake Dot	Non-Friable	**3% Amosite**	2975-09-C07
				Not Analyzed	2975-09-C08
				Not Analyzed	2975-09-C09
HC-68-08	-	Ceiling Tile - 2' x 4' Scatter Dot	Non-Friable	Non-Asbestos (Fibreglass Ceiling Tile)	
HC-68-09	-	Ceiling Tile - 2' x 4' Textured Solid	Non-Friable	Non-Asbestos (Fibreglass Ceiling Tile)	
HC-68-10	**2475** (2055)	Smooth Plaster	Non-Friable	Non-Asbestos	2975-09-C50
				Non-Asbestos	2975-09-C51
				Non-Asbestos	2975-09-C52
	2540 (2120)			Non-Asbestos	2975-09-C53
				Non-Asbestos	2975-09-C54
	2380 (1008)			Non-Asbestos	2975-09-C55
				Non-Asbestos	2975-09-C56
HC-68-11	**2485** (2065)	Plaster Base Ceiling	Non-Friable	Non-Asbestos	2975-09-C62
				Non-Asbestos	2975-09-C63
				Non-Asbestos	2975-09-C64
				Non-Asbestos	2975-09-C65
				Non-Asbestos	2975-09-C66
	2488 (2068)			Non-Asbestos	2975-09-C67
				Non-Asbestos	2975-09-C68
HC-68-12	**2505** (2085)	Ceiling Tile – 1' x 1' Random Dot	Non-Friable	Non-Asbestos	2975-09-C13
				Non-Asbestos	2975-09-C14
				Non-Asbestos	2975-09-C15

Homogeneous Number	Location ID (OESN Functional Space Location)	Material and Building Floor	Friability	Asbestos Content and Type	Sample Number
		Ceiling Materials (Continued)			
		1968			
HC-68-13	**2508** (2088)	Texture Coat Ceiling	Non-Friable	**5% Chrysotile**	2975-09-C43
				Not Analyzed	2975-09-C44
				Not Analyzed	2975-09-C45
	2541 (2121)			Not Analyzed	2975-09-C46
				Not Analyzed	2975-09-C47
	2542 (2122)			Not Analyzed	2975-09-C48
				Not Analyzed	2975-09-C49
HC-68-14	**2529** (2109)	Ceiling Tile – 1' x 1' Fissure with Random Dot	Non-Friable	Non-Asbestos	2975-09-C22
				Non-Asbestos	2975-09-C23
				Non-Asbestos	2975-09-C24
HC-68-15	**2520** (2100)	Ceiling Tile – 1' x 1' Dot with Trim	Non-Friable	Non-Asbestos	2975-09-C19
				Non-Asbestos	2975-09-C20
				Non-Asbestos	2975-09-C21
HC-68-16	**2535** (2115)	Ceiling Tile – 1' x 1' Strata	Non-Friable	Non-Asbestos	2975-09-C31
				Non-Asbestos	2975-09-C32
				Non-Asbestos	2975-09-C33
HC-68-17	**2534** (2114)	Ceiling Tile – 1' x 1' Random Fissure	Non-Friable	Non-Asbestos	2975-09-C34
				Non-Asbestos	2975-09-C35
				Non-Asbestos	2975-09-C36
HC-68-18	**2535** (2115)	Ceiling Tile – 1' x 1' Marble Pattern	Non-Friable	Non-Asbestos	2975-09-C28
				Non-Asbestos	2975-09-C29
				Non-Asbestos	2975-09-C30
HC-68-19	**2535** (2115)	Ceiling Tile – 1' x 1' Light Dot	Non-Friable	Non-Asbestos	2975-09-C25
				Non-Asbestos	2975-09-C26
				Non-Asbestos	2975-09-C27
HC-68-20	**2550** (3008)	Texture Coat on Drywall	Friable	Non-Asbestos	2975-09-C57
				Non-Asbestos	2975-09-C58
	2384 (1012)			Non-Asbestos	2975-09-C59
				Non-Asbestos	2975-09-C60
				Non-Asbestos	2975-09-C61
HC-68-21	**2373** (1001)	Ceiling tile – 2' x 2' Drywall	Non-Friable	Non-Asbestos	2975-09-C90
				Non-Asbestos	2975-09-C91
				Non-Asbestos	2975-09-C92
HC-68-22	**2373** (1001)	Ceiling Tile – 2' x 2' Fissure	Non-Friable	**3% Amosite 2% Chrysotile**	2975-09-C40
				Not Analyzed	2975-09-C41
				Not analyzed	2975-09-C42
HC-68-23	**2376** (1004)	Ceiling Tile – 2' x 2' Fissure with Heavy Dot	Non-Friable	Non-Asbestos	2975-09-C93
				Non-Asbestos	2975-09-C94
				Non-Asbestos	2975-09-C95
HC-68-24	-	Ceiling Tile - 2' x 2' Textured Solid	Non-Friable	Non-Asbestos (Fibreglass Ceiling Tile)	
HC-68-25	**2376** (1004)	Ceiling Tile – 2' x 2' Multidot	Non-Friable	Non-Asbestos	2975-09-C96
				Non-Asbestos	2975-09-C97
				Non-Asbestos	2975-09-C98
HC-68-26	**2371** (B017)	Basement Texture Coat	Friable	**10% Chrysotile**	2975-09-C99
				Not Analyzed	2975-09-C100
				Not Analyzed	2975-09-C101
				Not Analyzed	2975-09-C102
				Not Analyzed	2975-09-C103

Homogeneous Number	Location ID (OESN Functional Space Location)	Material and Building Floor	Friability	Asbestos Content and Type	Sample Number
		Ceiling Materials (Continued)			
		1985			
HC-85-01	**2510** (2090)	Ceiling Tile – 2' x 2' Strata	Non-Friable	Non-Asbestos Non-Asbestos Non-Asbestos	2975-09-C72 2975-09-C73 2975-09-C74
HC-85-02	**2510** (2090)	Drywall and Joint Compound	Friable	Non-Asbestos Non-Asbestos Non-Asbestos Non-Asbestos Non-Asbestos	2975-09-C75 2975-09-C76 2975-09-C77 2975-09-C78 2975-09-C79
HC-85-03	**2510** (2090)	Ceiling Tile – 2' x 4' Strata	Non-Friable	Non-Asbestos Non-Asbestos Non-Asbestos	2975-09-C80 2975-09-C81 2975-09-C82
HC-85-04	**2358** (B004)	Textured Plaster	Non-Friable	Non-Asbestos Non-Asbestos Non-Asbestos	2975-09-C69 2975-09-C70 2975-09-C71

The results of the assessment and analysis indicate that **ten (10)** homogeneous materials contain asbestos minerals. A summary of the asbestos-containing materials and their locations within Highland Secondary School are presented below in **Table 2**. A log of photographs of the materials identified to be asbestos-containing within the school can be found within **Table 3**.

Table 2 – Summary of Material Locations within Highland Secondary School

Table Notes:
1. Shading of homogeneous materials indicates asbestos minerals were detected above 0.5%.
2. Complete laboratory results are provided in Appendix A.

Client ID and Building Era	OESN Functional Space Number and Location Identification	Material	Asbestos Content and Type	Homogeneous Number
		Basement		
2355	B001 / Basement Stairwell	Skim Coat (walls)	Non-Asbestos	HW-85-02
2356	B002 / Basement Storage	Skim Coat (walls)	Non-Asbestos	HW-85-02
2357	B003 / Under Stairs Storage	Skim Coat (walls)	Non-Asbestos	HW-85-02
2358	B004 / Boiler Room	Skim Coat (walls)	Non-Asbestos	HW-85-02
		Textured Plaster (bulkhead - ceiling)	Non-Asbestos	HC-85-04
2359	B005 / Football Room	Smooth Plaster (ceiling)	Non-Asbestos	HC-68-10
2360	B006 / Fan Room	-	-	-
2361	B007 / Football Washroom	Smooth Plaster (ceiling)	Non-Asbestos	HC-68-10
2362	B008 / Football Shower	Smooth Plaster (ceiling)	Non-Asbestos	HC-68-10
2363	B009 / Equipment Room	Smooth Plaster (ceiling)	Non-Asbestos	HC-68-10

Client ID and Building Era	OESN Functional Space Number and Location Identification	Material	Asbestos Content and Type	Homogeneous Number
		Basement (Continued)		
2364	B010 / Football Storage	Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
2365	B011	*Unable to access at time of inspection*		
2366	B012 / Storage Foyer	Smooth Plaster (ceiling)	Non-Asbestos	HC-68-10
2367	B013 / Storage	Smooth Plaster (ceiling)	Non-Asbestos	HC-68-10
2368	B014 / Storage Washroom	Smooth Plaster (ceiling)	Non-Asbestos	HC-68-10
2369	B015 / Storage Showers	Smooth Plaster (ceiling)	Non-Asbestos	HC-68-10
2370	B016 / Laundry Room	-	-	-
2371	B017 / Football Corridor	Basement Texture Coat (ceiling)	**10% Chrysotile**	HC-68-26
2372	B018 / Stairwell	Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
		Smooth Plaster (ceiling)	Non-Asbestos	HC-68-10
		Ceiling Tile – 1' x 1' Strata	Non-Asbestos	HC-68-16
		Texture Coat on Drywall (ceiling)	Non-Asbestos	HC-68-20
		First Floor		
2373	1001 / Cafeteria Shipping/Receiving	Ceiling Tile – 2' x 2' Drywall	Non-Asbestos	HC-68-21
		Ceiling Tile – 2' x 2' Fissure	**3% Amosite 2% Chrysotile**	HC-68-22
2374	1002 / Ladies Washroom	Ceiling Tile – 2' x 2' Fissure	**3% Amosite 2% Chrysotile**	HC-68-22
2375	1003 / Cafeteria Shipping/Receiving Closet	Ceiling Tile – 2' x 2' Fissure	**3% Amosite 2% Chrysotile**	HC-68-22
2376	1004 / Cafeteria Storage	Ceiling Tile – 2' x 2' Fissure	**3% Amosite 2% Chrysotile**	HC-68-22
		Ceiling Tile – 2' x 2' Fissure with Heavy Dot	Non-Asbestos	HC-68-23
		Ceiling Tile – 2' x 2' Textured Solid	Non-Asbestos	HC-68-24
		Ceiling Tile – 2' x 2' Multi Dot	Non-Asbestos	HC-68-25
		Ceiling Tile – 2' x 2' Strata	Non-Asbestos	HC-85-01
2377	1005 / Cafeteria Kitchen	Smooth Plaster – Bulkhead (walls)	Non-Asbestos	HW-68-04
		Ceiling Tile – 2' x 2' Drywall	Non-Asbestos	HC-68-21
2378	1006 / Snack Bar	Ceiling Tile – 2' x 2' Drywall	Non-Asbestos	HC-68-21
2379	1007 / Staff Dining	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Ceiling Tile – 2' x 2' Fissure with Heavy Dot	Non-Asbestos	HC-68-23
2380	1008 / Cafeteria	Smooth Plaster (walls)	Non-Asbestos	HW-68-04
		Smooth Plaster (ceiling)	Non-Asbestos	HC-68-10
		Ceiling Tile – 2' x 4' Strata	Non-Asbestos	HC-85-03

Client ID and Building Era	OESN Functional Space Number and Location Identification	Material	Asbestos Content and Type	Homogeneous Number
		First Floor (Continued)		
2381	1009 / Boy's Washroom	Ceiling Tile – 2' x 4' Strata	Non-Asbestos	HC-85-03
2382	1010 / Storage Closet	Texture Coat on Drywall (ceiling)	Non-Asbestos	HC-68-20
2383	1011 / Storage Closet	Texture Coat on Drywall (ceiling)	Non-Asbestos	HC-68-20
		Ceiling Tile – 2' x 4' Strata (stored)	Non-Asbestos	HC-85-03
2384	1012 / Storage Closet	Texture Coat on Drywall (ceiling)	Non-Asbestos	HC-68-20
2385	1013 / Girl's Washroom	Ceiling Tile – 2' x 4' Strata	Non-Asbestos	HC-85-03
2386	1014 / Caretaker's Office	Floor Tile	Non-Asbestos	HF-03
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
2387	1015 / Caretaker's Office	Floor Tile	Non-Asbestos	HF-03
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
2388	1016 / Caretaker Office Entrance	Floor Tile	Non-Asbestos	HF-03
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
2389	1017 / Room 101	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
2390	1018 / Room 102	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
2391	1019 / Room 103	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
2392	1020 / Room 104	Floor Tile	**Chrysotile**	HF-02
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02

Client ID and Building Era	OESN Functional Space Number and Location Identification	Material	Asbestos Content and Type	Homogeneous Number
		First Floor (Continued)		
2393	1021 / Room 105	Floor Tile	Non-Asbestos	HF-03
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
		Ceiling Tile – 1'x1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
2394	1022 / Stairwell	Ceiling Tile – 1'x1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
		Smooth Plaster (ceiling)	Non-Asbestos	HC-68-10
		Texture Coat on Drywall (ceiling)	Non-Asbestos	HC-68-20
2395	1023 / Room 106	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Ceiling Tile – 2' x 4' Strata	Non-Asbestos	HC-85-03
2396	1024 / Costume Storage	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Ceiling Tile – 2' x 4' Strata	Non-Asbestos	HC-85-03
2397	1025 / Drama Storage	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
2398	1026 / Room 107	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
		Ceiling Tile – 1' x 1' Light Dot	Non-Asbestos	HC-68-19
2399	1027 / Custodial Closet	Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
2400	1028 / Room 108	Floor Tile	Non-Asbestos	HF-03
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
		Ceiling Tile – 1' x 1' Random Dot	Non-Asbestos	HC-68-12
		Ceiling Tile – 1' x 1' Marble Pattern	Non-Asbestos	HC-68-18
2401	1029 / Family Studies	Floor Tile	**Chrysotile**	HF-02
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01

Client ID and Building Era	OESN Functional Space Number and Location Identification	Material	Asbestos Content and Type	Homogeneous Number
		First Floor (Continued)		
2402	1030 / Stairwell	Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
		Smooth Plaster (ceiling)	Non-Asbestos	HC-68-10
		Texture Coat on Drywall (ceiling)	Non-Asbestos	HC-68-20
2403	1031	Floor Tile	**Chrysotile**	HF-02
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
2404	1032 / English Office	Floor Tile	**Chrysotile**	HF-01
		Floor Tile	**Chrysotile**	HF-02
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
2405	1033 / Stairwell	Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
		Texture Coat on Drywall (ceiling)	Non-Asbestos	HC-68-20
2406	1034 / Elevator	Floor Tile	**Chrysotile**	HF-02
2407	1035 / Teacher Staff Room Foyer	Floor Tile	**Chrysotile**	HF-02
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
2408	1036 / Staff Room	Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
2409	1037 / Staff Room Washroom	Floor Tile	**Chrysotile**	HF-02
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
2410	1038 / Languages Office	Floor Tile	**Chrysotile**	HF-02
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
2411	1039 / Room 110	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
2412	1040 / Room 111	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
2413	1041 / Room 112	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02

Client ID and Building Era	OESN Functional Space Number and Location Identification	Material	Asbestos Content and Type	Homogeneous Number
		First Floor (Continued)		
2414	1042 / Corridor	Grey Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-05
		Ceiling Tile – 2' x 4' Strata	Non-Asbestos	HC-85-03
2415	1043 / Corridor	Grey Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-05
		Ceiling Tile – 2' x 4' Strata	Non-Asbestos	HC-85-03
2416	1044 / Corridor	Grey Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-05
		Ceiling Tile – 2' x 4' Strata	Non-Asbestos	HC-85-03
2417	1045 / Corridor	Smooth Plaster (walls)	Non-Asbestos	HW-68-04
		Grey Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-05
		Ceiling Tile – 2' x 4' Strata	Non-Asbestos	HC-85-03
2418	1046 / Corridor	Smooth Plaster (walls)	Non-Asbestos	HW-68-04
		Grey Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-05
		Ceiling Tile – 2' x 4' Strata	Non-Asbestos	HC-85-03
2419	1047 / Corridor	Smooth Plaster (walls)	Non-Asbestos	HW-68-04
		Grey Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-05
		Ceiling Tile – 2' x 4' Strata	Non-Asbestos	HC-85-03
		Second Floor		
2420	2001 / Health Room	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
2421	2002 / Health Storage	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
2422	2003 / Tech Directors Office	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
2423	2004 / Co-op Office	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01

Client ID and Building Era	OESN Functional Space Number and Location Identification	Material	Asbestos Content and Type	Homogeneous Number
		Second Floor (Continued)		
2424	2005 / Employee Washroom	Floor Tile	**Chrysotile**	HF-01
		Floor Tile	**Chrysotile**	HF-02
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
2425	2006 / Music Room Foyer	Floor Tile (beneath carpet)	**Chrysotile**	HF-02
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
2426	2007 / Music Room	Floor Tile (beneath carpet)	**Chrysotile**	HF-02
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		1' x 1' Perforated Panels	Non-Asbestos	HW-68-07
2427	2008 / Music Storage	Floor Tile (beneath carpet)	**Chrysotile**	HF-02
2428	2009	*Unable to access at time of inspection*		
2429	2010 / Music Corridor A	Floor Tile (beneath carpet)	**Chrysotile**	HF-02
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Ceiling Tile – 2' x 4' Random Fissure	Non-Asbestos	HC-68-03
2430	2011 / Music Corridor B	Floor Tile	**Chrysotile**	HF-02
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Ceiling Tile – 2' x 4' Random Fissure	Non-Asbestos	HC-68-03
2431	2012 / Sound Booth A	Floor Tile	**Chrysotile**	HF-02
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Ceiling Tile – 2' x 4' Random Fissure	Non-Asbestos	HC-68-03
2432	2013 / Sound Booth B	Floor Tile	**Chrysotile**	HF-02
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Ceiling Tile – 2' x 4' Random Fissure	Non-Asbestos	HC-68-03
2433	2014 / Sound Booth C	Floor Tile (beneath carpet)	**Chrysotile**	HF-02
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Ceiling Tile – 2' x 4' Random Fissure	Non-Asbestos	HC-68-03
2434	2015 / Music Office	Floor Tile (beneath carpet)	**Chrysotile**	HF-02
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Ceiling Tile – 2' x 4' Random Fissure	Non-Asbestos	HC-68-03
2435	2016	*Unable to access at time of inspection*		

Client ID and Building Era	OESN Functional Space Number and Location Identification	Material	Asbestos Content and Type	Homogeneous Number
		Second Floor (Continued)		
2436	2017 / Music Classroom	Floor Tile (beneath carpet)	**Chrysotile**	HF-02
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
2437	2018 / Music Classroom Foyer	Floor Tile (beneath carpet)	**Chrysotile**	HF-02
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
2438	2019 / Custodial Closet	Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
2439	2020 / Manufacturing Technology	-	-	-
2440	2021 / Manufacturing Mezzanine	-	-	-
2441	2022 / Manufacturing Storage	-	-	-
2442	2023 / Band Room	Floor Tile (beneath carpet)	**Chrysotile**	HF-02
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Smooth Cementitious Panel (walls)	**25% Chrysotile**	HW-68-02
2443	2024 / Band Storage	Floor Tile (beneath carpet)	**Chrysotile**	HF-02
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
2445	2025 / Design Technology	-	-	-
2446	2026 / Mini Lathe Room	-	-	-
2447	2027 / Airplane Room	-	-	-
2448	2028 / Wood Storage	-	-	-
2449	2029 / Design Tech Mezzanine A	-	-	-
2450	2030 / Design Tech Mezzanine B	-	-	-
2451	2031 / Transportation Technology	Smooth Cementitious Panel (walls)	**25% Chrysotile**	HW-68-02
2452	2032 / Art Class	-	-	-
2453	2033 / Cyclone Room	-	-	-
2454	2034 / Storage	-	-	-
2455	2035 / Storage	-	-	-
2456	2036 / Construction Technology	-	-	-
2457	2037 / Construction Technology Storage	-	-	-
2458	2038 / Transportation Technology	-	-	-
2459	2039 / Transportation Tool Crib	-	-	-

Client ID and Building Era	OESN Functional Space Number and Location Identification	Material	Asbestos Content and Type	Homogeneous Number
		Second Floor (Continued)		
2460	2040 / Art Room	Smooth Cementitious Panel (walls) – Fume Hood	**25% Chrysotile**	HW-68-02
2461	2041 / Electronics Tech Room	Joint Compound on Wood (walls)	Non-Asbestos	HW-68-03
2462	2042 / Electronic Storage	-	-	-
2463	2043 / Electronic Storage	-	-	-
2464	2044 / Electronic Storage	Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
2465	2045 / CNC Room	Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
2466	2046 / Computer Storage Mezzanine	-	-	-
2467	2047 / Communication Tech	Smooth Cementitious Panel (walls)	**25% Chrysotile**	HW-68-02
2468	2048 / Dark Room	Ceiling Tile – 1' x 1' Fissure	**3% Chrysotile 2% Amosite**	HC-68-04
2469	2049 / Communications Office	-	-	-
2470	2050 / Communications Mezzanine	-	-	-
2471	2051 / Print Room	Floor Tile	**Chrysotile**	HF-02
		Ceiling Tile – 2' x 4' Fissure on 2'	Non-Asbestos	HC-68-05
		Ceiling Tile – 2' x 4' Multi Dot	Non-Asbestos	HC-68-06
		Ceiling Tile – 2' x 4' Snowflake Dot	**3% Amosite**	HC-68-07
		Ceiling Tile – 2' x 4' Scatter Dot	Non-Asbestos	HC-68-08
		Ceiling Tile – 2' x 4' Textured Solid	Non-Asbestos	HC-68-09
2472	2052 / Co-op/Career Centre	Floor Tile	**Chrysotile**	HF-02
		1' x 1' Perforated Panels	Non-Asbestos	HW-68-07
2473	2053 / Boy's Washroom	-	-	-
2474	2054 / First Aid Room	-	-	-
2475	2055 / Gym Foyer	Smooth Plaster (ceiling)	Non-Asbestos	HC-68-10
2476	2056 / Boy's Change Room	-	-	-
2477	2057 / Dry Room	-	-	-
2478	2058 / Shower	-	-	-
2479	2059 / Boy's Phys-Ed Office	-	-	-
2480	2060 / Boy's Phys-Ed Office Washroom	-	-	-
2481	2061 / Gym Storage	-	-	-
2482	2062 / Gym	Plaster Base Ceiling	Non-Asbestos	HC-68-11
2483	2063 / Stairs to Balcony	Smooth Plaster (ceiling)	Non-Asbestos	HC-68-10
2484	2064 / Stairs to Balcony	Smooth Plaster (ceiling)	Non-Asbestos	HC-68-10

Client ID and Building Era	OESN Functional Space Number and Location Identification	Material	Asbestos Content and Type	Homogeneous Number
		Second Floor (Continued)		
2485	2065 / Gym Mezzanine	Plaster Base Ceiling	Non-Asbestos	HC-68-11
2486	2066 / Projection Room	-	-	-
2487	2067 / Stairs to Weight Room A	Smooth Plaster (ceiling)	Non-Asbestos	HC-68-10
2488	2068 / Weight Room A	Plaster Base Ceiling	Non-Asbestos	HC-68-11
2489	2069 / Weight Room B	Plaster Base Ceiling	Non-Asbestos	HC-68-11
2490	2070 / Stairs to Weight Room B	Smooth Plaster (ceiling)	Non-Asbestos	HC-68-10
2491	2071 / Fan Room	-	-	-
2492	2072 / Gym Storage	-	-	-
2493	2073 / Gym Storage Loft	-	-	-
2494	2074 / Stage	-	-	-
2495	2075 / Stage Storage	-	-	-
2496	2076 / Stage Fire Exit	-	-	-
2497	2077 / Girl's Change Room Foyer	Smooth Plaster (ceiling)	Non-Asbestos	HC-68-10
2498	2078 / Girl's Change Room	Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
2499	2079 / Showers	-	-	-
2500	2080 / Girl's Phys-Ed Office A	-	-	-
2501	2081 / Girl's Phys-Ed Office Washroom	-	-	-
2502	2082 / Girl's Phys-Ed Office B	Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
2503	2083 / Gym Foyer	Smooth Plaster (ceiling)	Non-Asbestos	HC-68-10
2504	2084 / Gym Storage	-	-	-
2505	2085 / Girl's Washroom	Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
		Ceiling Tile – 1' x 1 'Random Dot	-	HC-68-12
2506	2086 / Team Room	-	-	-
2507	2087 / Corridor	Texture Coat Ceiling	**5% Chrysotile**	HC-68-13
2508	2088 / Corridor	Texture Coat Ceiling	**5% Chrysotile**	HC-68-13
2509	2089 / Corridor	Texture Coat Ceiling	**5% Chrysotile**	HC-68-13
2510	2090 / Library	Drywall and Joint Compound (walls)	Non-Asbestos	HW-85-01
		Ceiling Tile – 2' x 2' Strata	Non-Asbestos	HC-85-01
		Drywall and Joint Compound (ceiling)	Non-Asbestos	HC-85-02
		Ceiling Tile – 2' x 4' Strata	Non-Asbestos	HC-85-03
2511	2091 / Seminar Room 1	Ceiling Tile – 2' x 2' Strata	Non-Asbestos	HC-85-01
2512	2092 / Library Storage	Floor Tile	**Chrysotile**	HF-02
2513	2093 / Seminar Room 2	Ceiling Tile – 2' x 2' Strata	Non-Asbestos	HC-85-01
2514	2094 / Seminar Room 3	Ceiling Tile – 2' x 2' Strata	Non-Asbestos	HC-85-01

Client ID and Building Era	OESN Functional Space Number and Location Identification	Material	Asbestos Content and Type	Homogeneous Number
		Second Floor (Continued)		
2515	2095 / Media Room	Ceiling Tile – 2' x 2' Strata	Non-Asbestos	HC-85-01
2516	2096 / Library Office	Ceiling Tile – 2' x 2' Strata	Non-Asbestos	HC-85-01
2517	2097 / Magazine Storage	Ceiling Tile – 2' x 2' Strata	Non-Asbestos	HC-85-01
2518	2098 / Ladies Staff Washroom	Ceiling Tile – 2' x 2' Strata	Non-Asbestos	HC-85-01
2519	2099 / Men's Staff Washroom	Ceiling Tile – 2' x 2' Strata	Non-Asbestos	HC-85-01
2520	2100 / Guidance	Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
		Ceiling Tile – 1' x 1' Fissure	**3 % Chrysotile 2% Amosite**	HC-68-04
		Ceiling Tile – 1' x 1' Random Dot	Non-Asbestos	HC-68-12
		Ceiling Tile – 1' x 1' Fissure with Random Dot	Non-Asbestos	HC-68-14
		Ceiling Tile – 1' x 1' Dot with Trim	Non-Asbestos	HC-68-15
2521	2101 / Guidance Office Kitchen	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
2522	2102 / Health Information Office	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
2523	2103 / Health Information Washroom	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
2524	2104 / Ladies Washroom	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
2525	2105 / Guidance Counselors Office A	Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
2526	2106 / Guidance Counselors Office B	Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
2527	2107 / Guidance Counselors Office C	Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01

Client ID and Building Era	OESN Functional Space Number and Location Identification	Material	Asbestos Content and Type	Homogeneous Number
		Second Floor (Continued)		
2528	2108 / Office Corridor to Guidance Room	Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
		Ceiling Tile – 1' x 1' Fissure	**3% Chrysotile 2% Amosite**	HC-68-04
		Ceiling Tile – 1' x 1' Random Dot	Non-Asbestos	HC-68-12
		Ceiling Tile – 1' x 1' Dot with Trim	Non-Asbestos	HC-68-15
		Ceiling Tile – 1' x 1' Strata	Non-Asbestos	HC-68-16
2529	2109 / Office Break Room	Floor Tile (beneath carpet)	**Chrysotile**	HF-01
		Floor Tile (beneath carpet)	**Chrysotile**	HF-02
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Ceiling Tile – 1' x 1' Fissure	**3% Chrysotile 2% Amosite**	HC-68-04
		Ceiling Tile – 1' x 1' Fissure with Random Dot	Non-Asbestos	HC-68-14
		Ceiling Tile – 1' x 1' Dot with Trim	Non-Asbestos	HC-68-15
2530	2110	*Unable to access at time of inspection*		
2531	2111 / Office Ladies Washroom	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
2532	2112 / Testing Room	Ceiling Tile – 1' x 1' Random Fissure	Non-Asbestos	HC-68-17
2533	2113 / Coat Closet	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
2534	2114 / Vice Principal's Office	Ceiling Tile – 1' x 1' Random Fissure	Non-Asbestos	HC-68-17
2535	2115 / Principal's Office	Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Ceiling Tile – 1' x 1' Fissure	**3% Chrysotile 2% Amosite**	HC-68-04
		Ceiling Tile – 1' x 1' Dot with Trim	Non-Asbestos	HC-68-15
		Ceiling Tile – 1' x 1' Strata	Non-Asbestos	HC-68-16
		Ceiling Tile – 1' x 1' Marble Pattern	Non-Asbestos	HC-68-18
		Ceiling Tile – 1' x 1' Light Dot	Non-Asbestos	HC-68-19
2536	2116 / Principal's Washroom	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01

Client ID and Building Era	OESN Functional Space Number and Location Identification	Material	Asbestos Content and Type	Homogeneous Number
		Second Floor (Continued)		
2537	2117 / Mail Room	Floor Tile	**Chrysotile**	HF-02
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
2538	2118 / Main Office	Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Ceiling Tile – 1' x 1' Fissure	**3% Chrysotile 2% Amosite**	HC-68-04
		Ceiling Tile – 1' x 1' Random Dot	Non-Asbestos	HC-68-12
		Ceiling Tile – 1' x 1' Dot with Trim	Non-Asbestos	HC-68-15
		Ceiling Tile – 1' x 1' Strata	Non-Asbestos	HC-68-16
		Ceiling Tile – 1' x 1' Marble Pattern	Non-Asbestos	HC-68-18
2539	2119 / Custodial Closet	Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
2540	2120 / Main Entrance Foyer	Smooth Plaster (ceiling)	Non-Asbestos	HC-68-10
2541	2121 / Main Entrance Lobby	Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Smooth Plaster (walls)	Non-Asbestos	HW-68-04
		Smooth Plaster (ceiling)	Non-Asbestos	HC-68-10
		Texture Coat Ceiling	**5% Chrysotile**	HC-68-13
2542	2122 / Corridor	Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Smooth Plaster (walls)	Non-Asbestos	HW-68-04
		Texture Coat (ceiling)	**5% Chrysotile**	HC-68-13
		Third Floor		
2543	3001 / Room 301	Floor Tile	**Chrysotile**	HF-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
2544	3002 / Science Office	Floor Tile	**Chrysotile**	HF-01
		Floor Tile	**Chrysotile**	HF-02
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
2545	3003 / Room 303	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
		Ceiling Tile – 1' x 1' Marble Pattern	Non-Asbestos	HC-68-18

Client ID and Building Era	OESN Functional Space Number and Location Identification	Material	Asbestos Content and Type	Homogeneous Number
		Third Floor (Continued)		
2546	3004 / Room 305	Floor Tile	**Chrysotile**	HF-01
		Floor Tile	**Chrysotile**	HF-02
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Smooth Plaster (walls)	Non-Asbestos	HW-68-04
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
2547	3005 / Computer Storage	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
2548	3006 / History Office	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
2549	3007 / Boy's Washroom	Ceiling Tile – 2' x 4' Strata	Non-Asbestos	HC-85-03
2550	3008 / Custodial Closet	Texture Coat on Drywall	Non-Asbestos	HC-68-20
2551	3009 / Girl's Washroom	Ceiling Tile – 2' x 4' Strata	Non-Asbestos	HC-85-03
2552	3010 / Staff Lounge	Floor Tile	**Chrysotile**	HF-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
2553	3011 / Staff Lounge Washroom	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
2554	3012 / History Class	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
2555	3013 / Room 304	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
2556	3014 / History Class	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02

Client ID and Building Era	OESN Functional Space Number and Location Identification	Material	Asbestos Content and Type	Homogeneous Number
		Third Floor (Continued)		
2557	3015 / Room 307	Floor Tile	**Chrysotile**	HF-01
		Floor Tile	**Chrysotile**	HF-02
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
2558	3016 / Room 308	Floor Tile	**Chrysotile**	HF-01
		Floor Tile	**Chrysotile**	HF-02
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
2559	3017 / Room 309	Floor Tile	**Chrysotile**	HF-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
2560	3018 / Business Dept Office A	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
2561	3019 / Business Office B	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
2562	3020 / Room 310	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
2563	3021 / Room 311	Floor Tile	**Chrysotile**	HF-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
2564	3022 / Room 312	Floor Tile	**Chrysotile**	HF-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
2565	3023 / Room 313	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
2566	3024 / Room 314	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02

Client ID and Building Era	OESN Functional Space Number and Location Identification	Material	Asbestos Content and Type	Homogeneous Number
		Third Floor (Continued)		
2567	3025 / Math Office	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Smooth Plaster (walls)	Non-Asbestos	HW-68-04
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
2568	3026 / Math Office Storage	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
		Ceiling Tile – 1' x 1' Fissure	**3% Chrysotile 2% Amosite**	HC-68-04
2569	3027 / Room 315	Floor Tile	**Chrysotile**	HF-01
		Floor Tile	**Chrysotile**	HF-02
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
2570	3028 / Room 319	Floor Tile	**Chrysotile**	HF-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
		Ceiling Tile – 1' x 1' Marble Pattern	Non-Asbestos	HC-68-18
		Ceiling Tile – 2' x 4' Strata	Non-Asbestos	HC-85-03
2571	3029 / Room 316	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
2572	3030 / Room 317	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
2573	3031 / Room 318	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02
2574	3032 / Room 320	Floor Tile	**Chrysotile**	HF-01
		Drywall and Joint Compound (ceiling)	**1.5% Chrysotile**	HC-68-01
		Ceiling Tile – 1' x 1' Multi Dot	**3% Amosite <1% Chrysotile**	HC-68-02

Client ID and Building Era	OESN Functional Space Number and Location Identification	Material	Asbestos Content and Type	Homogeneous Number
		Third Floor (Continued)		
2575	3033 / Corridor	Grey Drywall and Joint Compound	Non-Asbestos	HW-68-05
		Ceiling Tile – 2' x 4' Strata	Non-Asbestos	HC-85-03
2576	3034 / Corridor	Grey Drywall and Joint Compound	Non-Asbestos	HW-68-05
		Ceiling Tile – 2' x 4' Strata	Non-Asbestos	HC-85-03
2577	3035 / Corridor	Grey Drywall and Joint Compound	Non-Asbestos	HW-68-05
		Ceiling Tile – 2' x 4' Strata	Non-Asbestos	HC-85-03
2578	3036 / Corridor	Smooth Plaster (walls)	Non-Asbestos	HW-68-04
		Grey Drywall and Joint Compound	Non-Asbestos	HW-68-05
		Ceiling Tile – 2' x 4' Strata	Non-Asbestos	HC-85-03
2579	3037 / Corridor	Smooth Plaster (walls)	Non-Asbestos	HW-68-04
		Grey Drywall and Joint Compound	Non-Asbestos	HW-68-05
		Ceiling Tile – 2' x 4' Strata	Non-Asbestos	HC-85-03
2580	3038 / Corridor	Smooth Plaster (walls)	Non-Asbestos	HW-68-04
		Grey Drywall and Joint Compound	Non-Asbestos	HW-68-05
		Ceiling Tile – 2' x 4' Strata	Non-Asbestos	HC-85-03
2581	3039 / Wheelchair Ramp Corridor	Drywall and Joint Compound (walls)	Non-Asbestos	HW-68-01
		Smooth Plaster (walls)	Non-Asbestos	HW-68-04
		Ceiling Tile – 2' x 4' Strata	Non-Asbestos	HC-85-03
2582	P001 / Penthouse Stairwell	Skim Coat	Non-Asbestos	HW-85-02
2583	P002 / Penthouse Fan Room	-	-	-

PINCHIN ENVIRONMENTAL

THE PINCHIN GROUP

Pinchin Environmental Asbestos Laboratory
Certificate of Analysis

Project Name: HWDSB, Highland Secondary School - WO 195112
Project No.: 70233
Prepared For: Michael Maiorana

Lab Reference No.: b92817
Date Analyzed: October 9, 2012

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
A0001A Boiler refractory, boile room, ID #2358	Homogeneous, beige, soft, cementitious material.	None Detected	Vermiculite 0.5-5% Other Non-Fibrous > 75%
A0001B Boiler refractory, boile room, ID #2358	Homogeneous, beige, soft, cementitious material.	None Detected	Vermiculite 0.5-5% Other Non-Fibrous > 75%
A0001C Boiler refractory, boile room, ID #2358	Homogeneous, beige, soft, cementitious material.	None Detected	Vermiculite 0.5-5% Other Non-Fibrous > 75%

ANALYST

BHicks

HIGHLAND SCHOOL - SAMPLE RESULTS

SCHOOL ID	LOCATION ID#	MATERIAL	ASBESTOS CONTENT & TYPE	LEAD CONTENT	RESULTS DATED
Change room - Boys	2361	Ceiling paint - white		0.39%	June 6, 2011
Change room - Boys	2361	Floor paint - grey		0.28%	June 6, 2011
Change room - Boys	2361	Wall paint - yellow		0.032%	June 6, 2011
Football room	2359	paint		0.006%	Feb. 21, 2003
Room 107	2398	Wall paint beside thermostat		0.0009%	Dec. 21, 2004
Science table top	2543	Room 301 - 3 samples	No asbestos		Feb. 10, 2000
Science table top	2545	Room 303 - 3 samples	No asbestos		Feb. 10, 2000
Science table top	2569	Room 315 - 3 samples	No asbestos		Feb. 10, 2000
Science table top	2570	Room 319 - 3 samples	No asbestos		Feb. 10, 2000