



**Brock University  
Refresher Accessibility Audit  
Project**

**Accessibility Audit  
Final Report**

**May 7, 2012**

## Executive Summary

In order to gauge its progress in creating a fully accessible campus, Brock University initiated a Refresher Accessibility Audit. The project also includes the design, purchase of and orientation to a searchable database. This project will allow Brock University to continue to systematically plan for the elimination of physical and architectural barriers for those with disabilities, and to design new buildings and facilities that will meet the needs of all members of the university community.

### Project Methodology and Scope

The Refresher Audit Project reviewed all identified facilities, provided updated audit and costing information and provided a data management program to assist the University in meeting its future planning needs. Each named site was audited using the Brock University Facility Accessibility Design Standards 2007. Audit results present both compliant areas and areas still requiring retrofit in order to meet the FADS Standard. This audit includes all facilities included in both the St. Catharines and Hamilton campuses considered to be publicly accessed areas only. Areas exclusively used by staff and service vendors were not included in this audit.

Our Accessibility Audit reviewed each facility following the Final Report reported design areas and building sections provided in the 2006 Final Audit Report. In some cases, this will allow for direct comparison between facilities as seen in 2006 and as they are in 2012. This includes 33 existing facilities and 3 “new” facilities constructed since the original audit. The audit also includes external paths/corridors, walkways and relevant spaces. Our review determined the following as applicable:

- What barriers still exist, and where they exist
- How they can/should be removed
- Resources necessary to undertake action
- Cost Projections

The format of the Final Report follows the same used in the 2006 Audit but it is generated by the THG database and is more succinct. Facilities are organized alphabetically using a chart format. The chart is presented as follows: **Design Element** (e.g. parking, auditorium, washrooms etc), **Assessment Results**, and **Recommendations** (to eliminate identified barriers).

Priority 1 – Short Term

These recommendations are urgent and need immediate consideration and action. Items termed “priority 1” include issues relating to personal dignity and health and safety.

Priority 4- Medium Term

The recommendations in this category will assist the University to more fully meet the access needs of people with disabilities. Action requires some large-scale planning and prioritization. However, failure to address these recommendations may result in these issues escalating into Priority One concerns.

Priority 5 – Long Term

These recommendations are suggested for consideration in future planning and/or capital investment as resources become available.

**Data Management**

Brock has purchased and been provided a copy of THG’s customized database system. The database incorporates all design standard requirements and compares it against audit findings to generate design change recommendations. The database is fully searchable and can be further customized to meet specific client needs and enquiries.

The database currently provides the following reports:

<b><u>Option</u></b>	<b><u>Benefit</u></b>
Recommendations by Facility and Priority Level	Full audit report – all recommendations by facility and priority level
Costs by Facility and Priority Level	Enables prioritization of projects and expenditure projections
Areas that Meet Brock FADS Compliancy	Assists in future design and reporting of retrofits
Recommendations by Frequency	Assists with planning and purchasing across the organization

The database has been modified to be more compatible with Brock’s VFA database. This will allow export of audit results into Excel which can then be inserted into relevant areas of VFA for planning and reporting purposes.

Staff of The Herrington Group will meet with Brock FM staff in the near future to provide orientation and training in the use of the Accessibility Audit Database and to explore the full functionality of this program to meet future planning needs. A copy of the database and its user manual are included on each submitted disk.

## **Audit Result Trends and Themes**

### **Significant Improvements to Overall Accessibility**

The Refresher Audit highlights Brock's significant investment into accessibility and physical plant. Both existing and newly constructed facilities are markedly improved in all areas. A cross-disability focus in design is more obvious; the audit team found both improvements for persons with mobility disabilities (i.e. automatic doors) and for persons with hearing disabilities (i.e. visual alarms). It is obvious that a number of recommendations from the 2006 Audit Report have been implemented including improvements to parking, paths of travel, emergency telephone placement, entrance accessibility, washroom design and new room signage.

A number of areas continue to be a challenge:

#### **Parking**

Overall availability of, and placement of, accessible parking has been improved. However consideration should be given to converting a few metered parking spaces which are closer to buildings into accessible parking spaces, for example, at Schmon Tower Loop.

#### **Wayfinding**

Wayfinding throughout the exterior of the campus and within interior facilities continues to be a challenge. Wayfinding within buildings and facilities continues to be difficult due to a lack of consistent directional signage.

#### **Availability of Accessible Washrooms**

The availability of accessible washrooms particularly in Thistle Complex and MacKenzie Chown Complex continues to be a challenge.

## Fire Safety and Evacuation

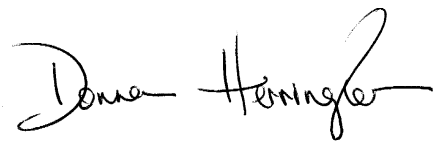
Areas of refuge are not obvious and lack needed equipment. The Refresher Audit recommends the installation of an area of refuge on each floor of a multi-level facility. In light of the AODA's Integrated Accessibility Regulation (O. Reg. 1919/11), a campus-wide assessment of the accessibility of fire safety and evacuation plans should be undertaken and equipment installation prioritized as needed.

## Conclusion

Brock University is to be commended for its commitment to creating an accessible campus. Leadership in this area is obvious within the physical plant. While on site, the THG team was provided with spontaneous anecdotal information from both staff and students praising improvements to accessibility. The success of this project would not have been possible without the assistance and support of University personnel. We appreciate all efforts to expedite our work and the assistance in scheduling access to facilities.

We appreciate the opportunity to serve you again and to see first-hand the positive impact of our first audit and its recommendations. We wish Brock University continued success as you endeavour to create a universally accessible community.

Respectfully submitted by:



Donna L. Herrington  
Senior Planner/Owner  
The Herrington Group Ltd

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# Costs by Facility and Priority Level

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## 573 GLENRIDGE AVENUE

Priority 1 Total:	\$15,668.00	( based on 16 items )
Priority 4 Total:	\$50,386.00	( based on 48 items )
Priority 5 Total:	\$29,743.00	( based on 9 items )
Facility Total:	\$95,797.00	( based on 73 total items )

## ALAN EARP RESIDENCE

Priority 1 Total:	\$15,448.00	( based on 16 items )
Priority 4 Total:	\$15,082.00	( based on 15 items )
Priority 5 Total:	\$21,900.00	( based on 6 items )
Facility Total:	\$52,430.00	( based on 37 total items )

## ALPHIE'S TROUGH

Priority 1 Total:	\$2,709.00	( based on 5 items )
Priority 4 Total:	\$8,017.00	( based on 8 items )
Priority 5 Total:	\$304,200.00	( based on 5 items )
Facility Total:	\$314,926.00	( based on 18 total items )

## ALUMNI GREENHOUSE

Priority 4 Total:	\$1,355.00	( based on 2 items )
Priority 5 Total:	\$40,790.00	( based on 5 items )
Facility Total:	\$42,145.00	( based on 7 total items )

## ARNIE LOWENBERGER RESIDENCE

<b>Priority 1 Total:</b>	<i>\$14,527.00</i>	( based on 17 items )
<b>Priority 4 Total:</b>	<i>\$30,548.00</i>	( based on 26 items )
<b>Priority 5 Total:</b>	<i>\$8,299.00</i>	( based on 8 items )
<b>Facility Total:</b>	<b>\$53,374.00</b>	( based on 51 total items )

## ARTHUR SCHMON TOWER

<b>Priority 1 Total:</b>	<i>\$48,035.00</i>	( based on 51 items )
<b>Priority 4 Total:</b>	<i>\$23,487.00</i>	( based on 21 items )
<b>Priority 5 Total:</b>	<i>\$206,129.00</i>	( based on 46 items )
<b>Facility Total:</b>	<b>\$277,651.00</b>	( based on 118 total items )

## ARTHUR SCHMON TOWER - JAMES A GIBSON LIBRARY

<b>Priority 1 Total:</b>	<i>\$71,663.00</i>	( based on 58 items )
<b>Priority 4 Total:</b>	<i>\$6,779.00</i>	( based on 3 items )
<b>Priority 5 Total:</b>	<i>\$235,886.00</i>	( based on 53 items )
<b>Facility Total:</b>	<b>\$314,328.00</b>	( based on 114 total items )

## BROCK RESEARCH & INNOVATION CENTRE

<b>Priority 1 Total:</b>	<i>\$3,293.00</i>	( based on 6 items )
<b>Priority 4 Total:</b>	<i>\$24,187.00</i>	( based on 21 items )
<b>Priority 5 Total:</b>	<i>\$28,351.00</i>	( based on 8 items )
<b>Facility Total:</b>	<b>\$55,831.00</b>	( based on 35 total items )

## CENTRAL UTILITIES BUILDING

<b>Priority 1 Total:</b>	<b>\$10,676.00</b>	( based on 4 items )
<b>Priority 4 Total:</b>	<b>\$10,748.00</b>	( based on 8 items )
<b>Priority 5 Total:</b>	<b>\$259,932.00</b>	( based on 13 items )
<b>Facility Total:</b>	<b>\$281,356.00</b>	( based on 25 total items )

## CUB - CLASSROOM PORTABLE

<b>Priority 4 Total:</b>	<b>\$4,684.00</b>	( based on 2 items )
<b>Priority 5 Total:</b>	<b>\$470.00</b>	( based on 1 item )
<b>Facility Total:</b>	<b>\$5,154.00</b>	( based on 3 total items )

## DECEW RESIDENCE AND DINING HALL

<b>Priority 1 Total:</b>	<b>\$36,184.00</b>	( based on 21 items )
<b>Priority 4 Total:</b>	<b>\$524,049.00</b>	( based on 32 items )
<b>Priority 5 Total:</b>	<b>\$253,078.00</b>	( based on 19 items )
<b>Facility Total:</b>	<b>\$813,311.00</b>	( based on 72 total items )

## EAST ACADEMIC - BUILDING 1

<b>Priority 1 Total:</b>	<b>\$4,399.00</b>	( based on 4 items )
<b>Priority 4 Total:</b>	<b>\$6,908.00</b>	( based on 13 items )
<b>Priority 5 Total:</b>	<b>\$1,481.00</b>	( based on 3 items )
<b>Facility Total:</b>	<b>\$12,788.00</b>	( based on 20 total items )



## EAST ACADEMIC - BUILDING 2

<b>Priority 1 Total:</b>	<b>\$4,399.00</b>	( based on 4 items )
<b>Priority 4 Total:</b>	<b>\$16,177.00</b>	( based on 15 items )
<b>Priority 5 Total:</b>	<b>\$754.00</b>	( based on 1 item )
<b>Facility Total:</b>	<b>\$21,330.00</b>	( based on 20 total items )

## EAST ACADEMIC - BUILDING 3

<b>Priority 1 Total:</b>	<b>\$4,399.00</b>	( based on 4 items )
<b>Priority 4 Total:</b>	<b>\$13,020.00</b>	( based on 14 items )
<b>Priority 5 Total:</b>	<b>\$754.00</b>	( based on 1 item )
<b>Facility Total:</b>	<b>\$18,173.00</b>	( based on 19 total items )

## EXTERIOR PATHS AND ROUTES OF TRAVEL

<b>Priority 4 Total:</b>	<b>\$23,568.00</b>	( based on 11 items )
<b>Priority 5 Total:</b>	<b>\$57,747.00</b>	( based on 10 items )
<b>Facility Total:</b>	<b>\$81,315.00</b>	( based on 21 total items )

## HAMILTON CAMPUS

<b>Priority 1 Total:</b>	<b>\$8,661.00</b>	( based on 11 items )
<b>Priority 4 Total:</b>	<b>\$64,550.00</b>	( based on 43 items )
<b>Priority 5 Total:</b>	<b>\$102,355.00</b>	( based on 18 items )
<b>Facility Total:</b>	<b>\$175,566.00</b>	( based on 72 total items )

## HARRISON HALL - STUDENT HEALTH SERVICES

Priority 1 Total:	\$9,537.00	( based on 5 items )
Priority 4 Total:	\$7,444.00	( based on 8 items )
Priority 5 Total:	\$1,977.00	( based on 2 items )
Facility Total:	\$18,958.00	( based on 15 total items )

## HARRISON HALL - THERAPY AREA

Priority 1 Total:	\$2,500.00	( based on 1 item )
Priority 4 Total:	\$52,839.00	( based on 3 items )
Facility Total:	\$55,339.00	( based on 4 total items )

## HERITAGE PLACE PLAZA

Priority 4 Total:	\$7,606.00	( based on 2 items )
Priority 5 Total:	\$258.00	( based on 1 item )
Facility Total:	\$7,864.00	( based on 3 total items )

## INNISKILLIN HALL

Priority 1 Total:	\$2,737.00	( based on 4 items )
Priority 4 Total:	\$4,577.00	( based on 2 items )
Priority 5 Total:	\$64,231.00	( based on 6 items )
Facility Total:	\$71,545.00	( based on 12 total items )

## INTERNATIONAL CENTRE

Priority 1 Total:	\$16,938.00	( based on 19 items )
Priority 4 Total:	\$6,325.00	( based on 5 items )
Priority 5 Total:	\$18,712.00	( based on 10 items )
Facility Total:	\$41,975.00	( based on 34 total items )

## KENMORE CENTRE

<b>Priority 1 Total:</b>	<b>\$3,412.00</b>	( based on 5 items )
<b>Priority 4 Total:</b>	<b>\$4,817.00</b>	( based on 9 items )
<b>Priority 5 Total:</b>	<b>\$2,360.00</b>	( based on 6 items )
<b>Facility Total:</b>	<b>\$10,589.00</b>	( based on 20 total items )

## MACKENZIE CHOWN COMPLEX - BLOCK 'A'

<b>Priority 1 Total:</b>	<b>\$26,004.00</b>	( based on 24 items )
<b>Priority 4 Total:</b>	<b>\$57,416.00</b>	( based on 33 items )
<b>Priority 5 Total:</b>	<b>\$5,816.00</b>	( based on 6 items )
<b>Facility Total:</b>	<b>\$89,236.00</b>	( based on 63 total items )

## MACKENZIE CHOWN COMPLEX - BLOCK 'B'

<b>Priority 1 Total:</b>	<b>\$51,423.00</b>	( based on 40 items )
<b>Priority 4 Total:</b>	<b>\$61,249.00</b>	( based on 78 items )
<b>Priority 5 Total:</b>	<b>\$43,982.00</b>	( based on 6 items )
<b>Facility Total:</b>	<b>\$156,654.00</b>	( based on 124 total items )

## MACKENZIE CHOWN COMPLEX - BLOCK 'C'

<b>Priority 1 Total:</b>	<b>\$31,835.00</b>	( based on 25 items )
<b>Priority 4 Total:</b>	<b>\$58,528.00</b>	( based on 70 items )
<b>Priority 5 Total:</b>	<b>\$38,716.00</b>	( based on 4 items )
<b>Facility Total:</b>	<b>\$129,079.00</b>	( based on 99 total items )

### **MACKENZIE CHOWN COMPLEX - BLOCK 'D'**

<b>Priority 1 Total:</b>	<i>\$27,299.00</i>	( based on 23 items )
<b>Priority 4 Total:</b>	<i>\$56,667.00</i>	( based on 62 items )
<b>Priority 5 Total:</b>	<i>\$17,863.00</i>	( based on 6 items )
<b>Facility Total:</b>	<b>\$101,829.00</b>	( based on 91 total items )

### **MACKENZIE CHOWN COMPLEX - BLOCK 'E'**

<b>Priority 1 Total:</b>	<i>\$14,536.00</i>	( based on 11 items )
<b>Priority 4 Total:</b>	<i>\$26,989.00</i>	( based on 15 items )
<b>Priority 5 Total:</b>	<i>\$777.00</i>	( based on 2 items )
<b>Facility Total:</b>	<b>\$42,302.00</b>	( based on 28 total items )

### **MACKENZIE CHOWN COMPLEX - BLOCK 'F'**

<b>Priority 1 Total:</b>	<i>\$15,924.00</i>	( based on 12 items )
<b>Priority 4 Total:</b>	<i>\$44,182.00</i>	( based on 24 items )
<b>Priority 5 Total:</b>	<i>\$4,067.00</i>	( based on 1 item )
<b>Facility Total:</b>	<b>\$64,173.00</b>	( based on 37 total items )

### **MACKENZIE CHOWN COMPLEX - BLOCK 'G'**

<b>Priority 1 Total:</b>	<i>\$16,513.00</i>	( based on 10 items )
<b>Priority 4 Total:</b>	<i>\$8,821.00</i>	( based on 8 items )
<b>Priority 5 Total:</b>	<i>\$25,232.00</i>	( based on 8 items )
<b>Facility Total:</b>	<b>\$50,566.00</b>	( based on 26 total items )

## MACKENZIE CHOWN COMPLEX - BLOCK 'H'

Priority 1 Total:	\$29,430.00	( based on 21 items )
Priority 4 Total:	\$17,505.00	( based on 19 items )
Priority 5 Total:	\$154,645.00	( based on 10 items )
Facility Total:	\$201,580.00	( based on 50 total items )

## MACKENZIE CHOWN COMPLEX - BLOCK 'J'

Priority 1 Total:	\$42,537.00	( based on 23 items )
Priority 4 Total:	\$9,741.00	( based on 15 items )
Priority 5 Total:	\$70,853.00	( based on 6 items )
Facility Total:	\$123,131.00	( based on 44 total items )

## PLAZA BUILDING

Priority 1 Total:	\$53,626.00	( based on 38 items )
Priority 4 Total:	\$73,231.00	( based on 69 items )
Priority 5 Total:	\$2,567.00	( based on 5 items )
Facility Total:	\$129,424.00	( based on 112 total items )

## ROBERT S.K. WELCH & DAVID S. HOWES THEATRE

Priority 1 Total:	\$41,719.00	( based on 42 items )
Priority 4 Total:	\$65,466.00	( based on 59 items )
Priority 5 Total:	\$50,573.00	( based on 17 items )
Facility Total:	\$157,758.00	( based on 118 total items )

## RODMAN HALL

Priority 1 Total:	\$3,926.00	( based on 4 items )
Priority 4 Total:	\$47,321.00	( based on 26 items )
Priority 5 Total:	\$201,686.00	( based on 3 items )
Facility Total:	\$252,933.00	( based on 33 total items )

## SCHMON PARKWAY

Priority 1 Total:	\$3,011.00	( based on 3 items )
Priority 4 Total:	\$8,903.00	( based on 9 items )
Priority 5 Total:	\$754.00	( based on 1 item )
Facility Total:	\$12,668.00	( based on 13 total items )

## SCHMON PLACE

Priority 1 Total:	\$254.00	( based on 1 item )
Priority 4 Total:	\$6,278.00	( based on 4 items )
Facility Total:	\$6,532.00	( based on 5 total items )

## SCOTIABANK HALL

Priority 1 Total:	\$21,778.00	( based on 13 items )
Priority 4 Total:	\$34,917.00	( based on 26 items )
Priority 5 Total:	\$1,663.00	( based on 2 items )
Facility Total:	\$58,358.00	( based on 41 total items )

## SOUTH BLOCK

<b>Priority 1 Total:</b>	<b>\$25,062.00</b>	( based on 34 items )
<b>Priority 4 Total:</b>	<b>\$31,438.00</b>	( based on 43 items )
<b>Priority 5 Total:</b>	<b>\$34,399.00</b>	( based on 10 items )
<b>Facility Total:</b>	<b>\$90,899.00</b>	( based on 87 total items )

## STUDENT ALUMNI CENTRE

<b>Priority 1 Total:</b>	<b>\$7,775.00</b>	( based on 10 items )
<b>Priority 4 Total:</b>	<b>\$29,891.00</b>	( based on 26 items )
<b>Priority 5 Total:</b>	<b>\$4,394.00</b>	( based on 6 items )
<b>Facility Total:</b>	<b>\$42,060.00</b>	( based on 42 total items )

## TARO HALL

<b>Priority 1 Total:</b>	<b>\$31,303.00</b>	( based on 29 items )
<b>Priority 4 Total:</b>	<b>\$63,593.00</b>	( based on 62 items )
<b>Priority 5 Total:</b>	<b>\$44,398.00</b>	( based on 12 items )
<b>Facility Total:</b>	<b>\$139,294.00</b>	( based on 103 total items )

## THEAL HOUSE

<b>Priority 4 Total:</b>	<b>\$5,280.00</b>	( based on 9 items )
<b>Priority 5 Total:</b>	<b>\$154,089.00</b>	( based on 3 items )
<b>Facility Total:</b>	<b>\$159,369.00</b>	( based on 12 total items )

## THISTLE COMPLEX

<b>Priority 1 Total:</b>	<b>\$31,384.00</b>	( based on 25 items )
<b>Priority 4 Total:</b>	<b>\$167,294.00</b>	( based on 96 items )
<b>Priority 5 Total:</b>	<b>\$17,370.00</b>	( based on 11 items )
<b>Facility Total:</b>	<b>\$216,048.00</b>	( based on 132 total items )

## VALLEE RESIDENCE

<b>Priority 1 Total:</b>	<b>\$7,977.00</b>	( based on 10 items )
<b>Priority 4 Total:</b>	<b>\$15,230.00</b>	( based on 24 items )
<b>Priority 5 Total:</b>	<b>\$9,299.00</b>	( based on 7 items )
<b>Facility Total:</b>	<b>\$32,506.00</b>	( based on 41 total items )

## VILLAGE RESIDENCE - PHASE 1 (COURTS 1-6)

<b>Priority 1 Total:</b>	<b>\$727.00</b>	( based on 1 item )
<b>Priority 4 Total:</b>	<b>\$21,656.00</b>	( based on 2 items )
<b>Priority 5 Total:</b>	<b>\$2,048.00</b>	( based on 4 items )
<b>Facility Total:</b>	<b>\$24,431.00</b>	( based on 7 total items )

## WALKER COMPLEX - FIELD HOUSE

<b>Priority 1 Total:</b>	<b>\$11,222.00</b>	( based on 11 items )
<b>Priority 4 Total:</b>	<b>\$14,613.00</b>	( based on 18 items )
<b>Priority 5 Total:</b>	<b>\$2,261.00</b>	( based on 3 items )
<b>Facility Total:</b>	<b>\$28,096.00</b>	( based on 32 total items )



## WALKER COMPLEX - PHYSICAL EDUCATION CENTRE AND AQUATIC CENTRE

<b>Priority 1 Total:</b>	<i>\$10,830.00</i>	( based on 11 items )
<b>Priority 4 Total:</b>	<i>\$47,827.00</i>	( based on 46 items )
<b>Priority 5 Total:</b>	<i>\$19,163.00</i>	( based on 10 items )
<b>Facility Total:</b>	<i>\$77,820.00</i>	( based on 67 total items )

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**Grand Total:** **\$5,208,491.00**