



FINAL
Asbestos
Reassessment

Juravinski Hospital
711 Concession Street, Hamilton,
Ontario

Prepared for:

Hamilton Health Sciences
1200 Main Street West
Hamilton, Ontario, L8N 3Z5

Attention: Corey LeGris
Hazardous Materials Specialist

January 16, 2019

Pinchin File: 217420.030



Asbestos Reassessment

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EXECUTIVE SUMMARY

Hamilton Health Sciences (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials assessment at Juravinski Hospital, 711 Concession Street, Hamilton, Ontario. The assessment was performed on August 21 and 22, 2018.

The objectives of the assessment were to document the locations of asbestos building materials, evaluate their condition and develop corrective action plans as required for the purposes of long term management. The results of this assessment are not intended for construction, renovation, demolition or project tendering purposes.

The assessed area consisted of the entire building.

SUMMARY OF FINDINGS

Asbestos-containing materials (ACM) are present as follows:

- Pipe insulation, chrysotile asbestos;
- Tar pipe fittings, chrysotile asbestos;
- Duct insulation, chrysotile asbestos;
- Mechanical equipment insulation, chrysotile asbestos;
- Ceiling tiles, chrysotile asbestos;
- Ceiling tile mastic, chrysotile asbestos;
- Plaster, chrysotile asbestos;
- Vinyl floor tiles and mastic, chrysotile asbestos;
- Duct vibration dampers, chrysotile asbestos;
- Transite panels, presumed asbestos; and
- Bakelite, chrysotile asbestos.

SUMMARY OF RECOMMENDATIONS

The following is a summary of significant recommendations; refer to the body of the report for detailed recommendations:

1. Continue to apply the policies and procedures as outlined in the building's Asbestos Management Program (AMP).
2. Perform a reassessment of asbestos materials on at least an annual basis.



Asbestos Reassessment

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Hamilton Health Sciences

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3. Perform a pre-construction assessment and remove all ACM prior to alteration or maintenance work if ACM may be disturbed by the work.
4. Follow appropriate safe work procedures when handling or disturbing asbestos.
5. Remediate the materials as described in Section 4.2.

This Executive Summary is subject to the same standard limitations as contained in the report and must be read in conjunction with the entire report.



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1.0 INTRODUCTION AND SCOPE

Hamilton Health Sciences (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials assessment at Juravinski Hospital, 711 Concession Street, Hamilton, Ontario.

The assessment was performed by Leslie Cantar, B.Eng. Mgt., Senior Project Technologist on August 21 and 22, 2018. The surveyor was unaccompanied during the assessment. The building was occupied at the time of the assessment.

The objectives of the assessment were to document the locations of asbestos building materials, evaluate their condition and develop corrective action plans as required. This assessment is only to be used for the purposes of long term management and routine maintenance. The results of this assessment are not to be used for construction, renovation, demolition or project tendering purposes.

1.1 Scope of Assessment

The assessment was performed to establish the location and type of asbestos building materials incorporated in the structure and its finishes. The assessed area consisted of all parts of the building.

2.0 BACKGROUND INFORMATION

2.1 Building Description

Item	Details
Building Use	Hospital
Number of Floors/Levels	Four storeys plus three below grade
Year of Construction	1954 with significant renovation and addition in 2010
Structure	Structural steel, concrete, and concrete block
Exterior Cladding	Pre-cast concrete, glass curtain wall, wood, and masonry
HVAC	Forced air, Boiler and hot water heating to radiators
Roof	Built-up roofing
Flooring	Vinyl tile, vinyl sheet flooring, carpet, terrazzo, and ceramic tiles
Interior Walls	Drywall, concrete block, poured concrete, and plaster
Ceilings	Drywall, plaster, and acoustic ceiling tiles

2.2 Existing Reports

Pinchin was provided with and instructed to rely upon, the following reports:

- Asbestos-Containing Materials Reassessment – Juravinski Hospital, June 16, 2017, Prepared By ECOH, Project No. 17429
- Bulk Sample Analysis Report - Juravinski, May 25, 2017, Prepared By ECOH, Project No. 17429

Pinchin most recently prepared the following assessment reports which were used for reference:

- “Asbestos Building Materials Reassessment – Juravinski Hospital”, dated May 29, 2015 (Pinchin File: 100581.001).
- “Hazardous Materials Findings and Recommendations Letter for the R Wing (05 Wing)”, dated November 15, 2017 (Pinchin File: 200249.056).
- “Hazardous Materials Findings and Recommendations Letter for the Emergency Power Project – Juravinski Hospital”, dated November 17, 2017 (Pinchin File: 200249.057).

3.0 FINDINGS

The following section summarizes the findings of the assessment and provides a general description of the asbestos materials identified and their locations. For details on quantities and locations of asbestos materials; refer to the drawings in Appendix I and the data tables in Appendix III.

Existing sampling data from the previous assessments was relied upon.

Materials listed as exclusions in the original assessment report remain as exclusions. See Section 3.11.

The sample numbers referenced below refer to the analytical reports in Appendix II. Project numbers have been included where applicable to distinguish sample numbers from various previous projects. Sample numbers where “HHS” is present before a sample number indicates that the sample results were provided by HHS.

The drawings in Appendix I indicate the location of exposed friable and non-friable asbestos-containing materials in four separate layers: floor, wall, ceiling and other. The flooring layer includes floor tiles and mastic, the wall layer includes plaster, the ceiling layer includes ceiling tiles, ceiling tile mastic, and plaster, and the other layer includes items such as: pipe insulation, duct insulation, and mechanical insulation. Asbestos-containing materials concealed above solid ceilings, within pipe chases and sporadically above ceiling tiles are not indicated on drawings.

3.1 Suspect Building Materials Not Found

The following types of building materials may historically contain asbestos but were not observed in the building and are not discussed in the report findings:

- Texture finishes (acoustic/decorative)

3.2 05 Wing/R Wing – Boiler House

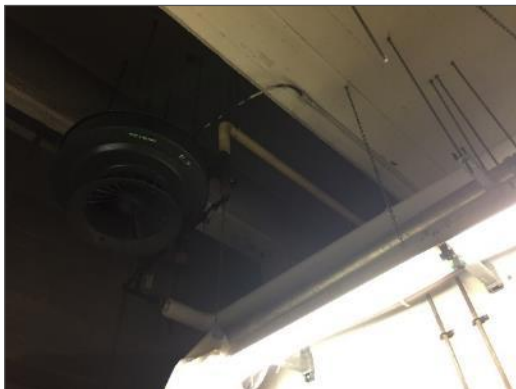
3.2.1 *Spray-Applied Fireproofing and Thermal Insulation*

Sprayed fireproofing or sprayed thermal insulation was not found in the Boiler House.

3.2.2 *Pipe Insulation*

Parging cement, containing chrysotile asbestos (previously reported), is present on four pipe fittings (elbows) on heating systems within the Basement and over the Upper Basement Level Storage Room. Parging cement is a friable insulation, jacketed with canvas and ranges from damaged to good condition.

Pipes insulated with friable asbestos insulations may also be present in inaccessible spaces such as above solid ceilings, in chases, in column enclosures and within shafts.



Asbestos-containing parging cement on pipe fittings, Upper Basement Level.



Asbestos-containing parging cement on pipe fitting, damaged condition, Upper Basement Level.

3.2.3 *Duct Insulation*

Ducts are uninsulated.

3.2.4 *Mechanical Equipment Insulation*

Mechanical equipment is either uninsulated or insulated with non-asbestos fibreglass.

3.2.5 Vermiculite

Loose fill vermiculite debris was not observed in the spaces or areas inspected. Destructive testing was not performed and vermiculite may be present within masonry block walls, above solid ceilings or other void spaces.

3.2.6 Acoustic Ceiling Tiles

Acoustic ceiling tiles were not found in the Boiler House.

3.2.7 Plaster

Non-asbestos rough plaster (samples 46653.005-047a-g and 2018-0011A-C) is present on the wall partitions within the Basement Tunnel to the Boiler House.

Non-asbestos rough single layer plaster is present on walls and structural concrete beams and columns throughout (200249.056 samples 0001A-C).

Non-asbestos rough plaster on metal lath is present below the Stairs on the middle Basement Level (samples 2018-0012A-C). Chrysotile asbestos was identified in plaster samples previously collected from this location, however based on current analytical results and the laboratory notes it is believed that this asbestos was present as cross-contamination (200249.056 sample 002A). The plaster is considered to be non-asbestos.



Non-asbestos rough plaster partition wall, Basement Tunnel to Boiler House.



Non-asbestos rough plaster on metal lath, Middle Basement Level below stairs.

3.2.8 Drywall Joint Compound

Drywall and drywall compound was not found in the Boiler House.

3.2.9 Asbestos Cement Products (Transite)

Transite board, presumed to contain asbestos based on visual observation, was previously identified within electrical units in the Middle Basement Level. Electrical units were not observed in the Middle Basement Level during the 2018 reassessment.

3.2.10 Vinyl Sheet Flooring

Vinyl sheet flooring was not found in the Boiler House.

3.2.11 Vinyl Floor Tile and Mastic

Vinyl floor tiles are present as follows:

Size, Pattern, and Colour	Locations	Sample Number	Asbestos Type (tile)	Asbestos Type (mastic)
12" x 12", beige flecks	Lower Basement Level	ECOH Sample 16262-JH-01A, Pinchin Sample 2018-0013A-C	Chrysotile	None Detected

The vinyl floor tiles are non-friable and are in good condition.

Another visually distinct type of vinyl floor tiles (9" x 9" beige) was previously identified in the Old Boiler Control Office on the Upper Basement Level and has been removed prior to the 2018 assessment.



Asbestos-containing 12" x 12" vinyl floor tiles, beige fleck pattern, Lowest Basement Level.

3.2.12 Sealants, Caulking, and Putty

Cream caulking at perimeter windows does not contain asbestos (ECOH samples 16262-JH-02A-C).

Black tar, containing chrysotile asbestos, was present on the exterior exit hatch of the Boiler House which has been removed prior to the 2018 assessment (200249.057 sample 004A).



3.3 20 Wing/J Wing

The 20 Wing/J Wing was renovated in the 2000's and therefore samples of drywall, ceiling tiles, sheet flooring and vinyl floor tiles were not collected. Due to the age of installation all wall and ceiling finishes are presumed non-asbestos.

3.3.1 Spray-Applied Fireproofing and Thermal Insulation

Sprayed fireproofing or sprayed thermal insulation was not found.

3.3.2 Pipe Insulation

Pipes are either uninsulated or insulated with non-asbestos fibreglass.

3.3.3 Duct Insulation

Ducts are either uninsulated or insulated with non-asbestos fibreglass (foil-faced or canvas).

3.3.4 Mechanical Equipment Insulation

Mechanical equipment is either uninsulated or insulated with non-asbestos fibreglass.

3.3.5 Vermiculite

Loose fill vermiculite debris was not observed in the spaces or areas inspected. Destructive testing was not performed and vermiculite may be present within masonry block walls, above solid ceilings or other void spaces.

3.3.6 Acoustic Ceiling Tiles

All ceiling tiles are presumed to be non-asbestos based on the date of manufacture determined from the age of the materials determined from the age of the building renovation. The tiles were manufactured after asbestos stopped being used in acoustic ceiling tiles.

3.3.7 Plaster

Plaster finishes were not found in 20 Wing - J.

3.3.8 Drywall Joint Compound

Asbestos in drywall joint compound was banned in Canada in 1980. Drywall joint compound in the 20 Wing - J was installed after 1986 (1980 plus a reasonable non-compliance period based on our experience) and is assumed to contain no asbestos.

3.3.9 Vinyl Sheet Flooring

Vinyl sheet flooring is presumed to be non-asbestos based on historical knowledge of the date of installation.

3.3.10 Vinyl Floor Tile and Mastic

Vinyl floor tiles and mastic were presumed to be non-asbestos based on historical knowledge of the date of installation.

3.4 30 Wing/L Wing – Lakeview Lodge

3.4.1 Spray-Applied Fireproofing and Thermal Insulation

Non-asbestos green tinted cementitious sprayed fireproofing is present on structural steel including beams, columns bracing and deck throughout the building. The fireproofing is presumed to be non-asbestos due to the green colour which is known not to contain asbestos.

3.4.2 Pipe Insulation

Pipes are either uninsulated or insulated with non-asbestos fiberglass, and in some locations are jacketed with PVC.

Pipes insulated with friable asbestos insulations may also be present in inaccessible spaces such as above solid ceilings, in chases, in column enclosures and within shafts.

3.4.3 Duct Insulation

Ducts are either uninsulated.

3.4.4 Mechanical Equipment Insulation

Mechanical equipment is either uninsulated or insulated with non-asbestos fiberglass.

3.4.5 Vermiculite

Loose fill vermiculite debris was not observed in the spaces or areas inspected. Destructive testing was not performed and vermiculite may be present within masonry block walls, above solid ceilings or other void spaces.

3.4.6 Acoustic Ceiling Tiles

One visually distinct types of acoustic ceiling tile are present in the building, as follows:

Tile Size (inches), Type and Pattern	Locations	Sample Number/Date Code	Asbestos Type
24" x 48", lay-in, texture and pinhole	Basement Corridor, Rooms	46653.005-039a-c	None detected

3.4.7 Plaster

Plaster finishes were not found in 30 Wing – Lakeview Lodge.

3.4.8 Drywall Joint Compound

Non-asbestos drywall joint compound present on wall and ceiling finishes throughout 30 Wing – Lakeview Lodge (samples 46653.005-041a-c and 042a-c). A trace amount of chrysotile asbestos (< 0.5%) was found in one of the samples (sample 041a). Ontario Regulation 278/05 defines an asbestos-containing material as one that contains at least 0.5% asbestos, therefore the drywall joint compound in this wing is considered non-asbestos. Additional sampling performed by ECOH in 2017 confirmed that the drywall joint compound is non-asbestos (refer to the bulk sampling report in Appendix IV).

3.4.9 Vinyl Sheet Flooring

Non-asbestos rubber and corlon sheet flooring is present in various areas of 30 Wing – Lakeview Lodge. Vinyl sheet flooring is presumed to be non-asbestos based on historical knowledge of the type of flooring (foam) or based on the lack of a paper backing layer (underpad).

3.4.10 Vinyl Floor Tile and Mastic

Vinyl floor tiles are present as follows:

Size, Pattern, and Colour	Locations	Sample Number	Asbestos Type (tile)	Asbestos Type (mastic)
12" x 12", white with grey lines	Level 1 Men's and Women's Washrooms	46653.005-040a-c, 2018-0014A-C	None Detected	None Detected



Non-asbestos 12" x 12" vinyl floor tiles and mastic, white with grey lines, Level 1 Women's Washroom.

3.5 40 Wing/M Wing – former Maternity Building

3.5.1 Spray-Applied Fireproofing and Thermal Insulation

Sprayed fireproofing or sprayed thermal insulation was not found.

3.5.2 Pipe Insulation

Parging cement, containing chrysotile asbestos (previously reported), is present on pipe fittings (elbows, valves, tees, hangers etc.) on the majority of insulated systems. Parging cement is a friable insulation, jacketed with canvas or cheesecloth and ranges from fair to good condition.

A white preformed block insulation (trade name Magnesia Block), containing chrysotile asbestos (previously reported), is present on straight sections of steam system pipes in the Basement Storage Room. Magnesia block is a friable insulation, jacketed with canvas and is in good condition.

A white corrugated paper insulation (trade name Aircell), containing chrysotile asbestos (previously reported), is present on straight sections of hot water heating system pipes. Aircell is a friable insulation, jacketed with canvas and ranges from fair to good condition.

Pipes insulated with friable asbestos insulations may also be present in inaccessible spaces such as above solid ceilings, in chases, in column enclosures and within shafts.



Asbestos-containing paring cement on pipe fittings,
Basement Corridor.



Asbestos-containing Aircell insulation on pipe straights,
Basement Corridor.

3.5.3 *Duct Insulation*

Ducts are either uninsulated or insulated with non-asbestos fibreglass (foil-faced or canvas).

3.5.4 *Mechanical Equipment Insulation*

Mechanical equipment is either uninsulated or insulated with non-asbestos fibreglass.

3.5.5 *Vermiculite*

Loose fill vermiculite debris was not observed in the spaces or areas inspected. Destructive testing was not performed and vermiculite may be present within masonry block walls, above solid ceilings or other void spaces.

3.5.6 *Acoustic Ceiling Tiles*

The 24" x 24" lay-in acoustic ceiling tile, present throughout the Level 1, was found to contain chrysotile asbestos (sample 46653.005-053a); a trace amount of amosite asbestos (<0.5%) was also detected in the sample. This type of ceiling tile has pattern of large fissures and pinholes. Acoustic tiles are non-friable and in good condition.

Asbestos-containing brown ceiling tile mastic (chrysotile, sampled by HHS in March 2013) was identified on concrete or plaster substrate above lay-in ceilings on Levels 2, 3, and 4. Ceiling tile mastic is non-friable and in good condition.

All remaining types of ceiling tiles are presumed to be non-asbestos based on the date of manufacture determined from the date stamp applied to the top of the tiles (1994-2000). The tiles were manufactured after asbestos stopped being used in acoustic ceiling tiles. Ceiling tiles were confirmed to be non-asbestos by sampling performed by ECOH in 2017 (refer to the bulk sampling report in Appendix IV).



Asbestos-containing 24" x 24" lay-in ceiling tiles, large fissures and pinholes, Level 1 Corridor.

3.5.7 *Plaster*

Smooth plaster present on walls and ceilings throughout 40 Wing – Maternity Building does not contain asbestos (samples 46653.005-050a-g). Additional sampling performed by ECOH in 2017 confirmed the plaster to be non-asbestos (refer to the bulk sampling report in Appendix IV).

Rough plaster present on ceilings in the Basement does not contain asbestos (samples 46653.005-047a-g).

3.5.8 *Drywall Joint Compound*

Drywall and drywall joint compound was not found in 40 Wing – Maternity Building.

3.5.9 *Vinyl Sheet Flooring*

Non-asbestos vinyl sheet flooring with a brown pebble pattern is present in Conference Room M1-32 on the Level 1 (samples 2018-0002A-C).

Non-asbestos white vinyl sheet flooring is was previously identified within the First and Level 2 Corridors (visually similar to samples 46653.005-025a-c).

Non-asbestos rubber and corlon sheet flooring is present in various areas of the wing and is presumed to be non-asbestos based on historical knowledge of the type of flooring (foam) or based on the lack of a paper backing layer (underpad).



Non-asbestos vinyl sheet flooring, brown pebble pattern,
Conference Room M1-32.

3.5.10 Vinyl Floor Tile and Mastic

Vinyl floor tiles are present as follows:

Size, Pattern, Colour and Photo Number	Locations	Sample Number	Asbestos Type (tile)	Asbestos Type (mastic)
12" x 12", brown with thick brown lines, Photo 1	Basement Washroom adjacent to Housekeeping	46653.005-048a	Chrysotile	Chrysotile
12" x 12", white with brown lines, Photo 2	Level 0 Conference Room 14 within Capital Development (former Central Media Lab Office)	46653.005-051a	Chrysotile	None Detected
9" x 9", green with white flecks, Photo 3	Refer to Data Tables and drawings for locations	46653.005-052a, 2018-0001C	Chrysotile	Chrysotile
9" x 9", brown flecks, Photo 4	Level 0 Mechanical Room and adjacent Office, North Entrance	46653.005-022a	Chrysotile	Chrysotile
9" x 9", brown with brown and white lines	Stairwells, Level 1 Corridor	46653.005-011a	Chrysotile	Chrysotile

The vinyl floor tiles and mastic are non-friable and are in good condition.

Remaining styles of vinyl floor tiles were presumed to be non-asbestos based on historical knowledge of the date of installation.



Photo 1 - Asbestos-containing 12" x 12" vinyl floor tiles, brown with thick brown lines, Basement Washroom adjacent to Housekeeping.



Photo 2 - Asbestos-containing 12" x 12" vinyl floor tiles, white with brown lines, Level 0 Central Media Lab Office.

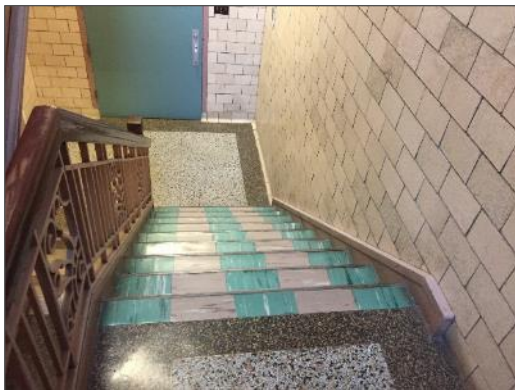


Photo 3 - Asbestos-containing 9" x 9" vinyl floor tiles, green/brown with white lines, Stairwell from Level 0 to Level 1.



Photo 4 - Asbestos-containing 9" x 9" vinyl floor tiles, brown flecks, Level 0 North Entrance.

3.5.11 Other Building Materials

Brown and grey floor debris present in the plumbing storage area of the Basement was determined to be asbestos-containing based on sampling performed by HHS in March 2013 (EMC Lab sample ID A99996-10-11, HHS S04a-b). This material was not observed during the 2018 reassessment.

3.6 60 Wing/G Wing

3.6.1 Spray-Applied Fireproofing and Thermal Insulation

Sprayed fireproofing or sprayed thermal insulation was not found.

3.6.2 *Pipe Insulation*

Parging cement, containing chrysotile asbestos (previously sampled), is present on pipe fittings (elbows, valves, tees, hangers etc.) on hot water heating systems. Parging cement is a friable insulation, jacketed with canvas or cheesecloth and ranges from fair to good condition.

Black tar, containing chrysotile asbestos (samples 46653.005-004a), is present over fibreglass insulation on drain pipe fittings throughout the Tunnel and Level 0. Tar is a non-friable insulation and is in good condition.

Non-asbestos sweatwrap insulation, (brown layered paper), is present on straight sections of drain system pipes (samples 46653.005-005a-c).

Remaining pipes, including all accessible pipes on Level 1 and 2, are either uninsulated or insulated with non-asbestos fibreglass.

Pipes insulated with friable asbestos insulations may also be present in inaccessible spaces such as above solid ceilings, in chases, in column enclosures and within shafts.

3.6.3 *Duct Insulation*

Ducts are either uninsulated or insulated with non-asbestos fibreglass (foil-faced or canvas).

3.6.4 *Mechanical Equipment Insulation*

Mechanical equipment is either uninsulated or insulated with non-asbestos fibreglass.

3.6.5 *Vermiculite*

Loose fill vermiculite debris was not observed in the spaces or areas inspected. Destructive testing was not performed and vermiculite may be present within masonry block walls, above solid ceilings or other void spaces.

3.6.6 *Acoustic Ceiling Tiles*

All ceiling tiles are presumed to be non-asbestos based on the date of manufacture determined from the date stamp applied to the top of the tiles (1994-2000) or the age of the materials determined from the age of the renovation (1994). The tiles were manufactured after asbestos stopped being used in acoustic ceiling tiles. The ceiling tiles were confirmed to be non-asbestos by sampling performed ECOH in 2017 (refer to the bulk sampling report in Appendix IV).

3.6.7 Plaster

Additional sampling of rough plaster ceiling finishes was performed by ECOH in the East Stairwell and determined the plaster to contain chrysotile asbestos (ECOH samples 17429-JH-G0-04A). Rough plaster is also present in the Level 0 Telephone Room and other stairwells. Plaster is non-friable while in place, but generates friable dust upon removal. All plaster is painted and ranges from damaged to good condition.

Smooth plaster, containing a small percentage of chrysotile asbestos is present in plaster finishes within G Wing (samples 46653.005-001a-g). This small concentration (<0.5%) is less than the regulatory limit of 0.5%, therefore the plaster is a non-asbestos material. Additional sampling performed by ECOH in 2017 confirmed the plaster to be non-asbestos (refer to the bulk sampling reports in Appendix IV).



Asbestos-containing rough plaster on ceiling, Level 0 East Stairwell.

3.6.8 Drywall Joint Compound

Drywall joint compound present on wall and ceiling finishes throughout Level 0 does not contain asbestos (samples 46653.005-010a-c).

Asbestos in drywall joint compound was banned in Canada in 1980. Drywall joint compound in Levels 1 and 2 was installed after 1986 (1980 plus a reasonable non-compliance period based on our experience) and is assumed to contain no asbestos.

Additional sampling performed by ECOH in 2017 confirmed the drywall joint compound to be non-asbestos (refer to the bulk sampling report in Appendix IV).

3.6.9 Vinyl Sheet Flooring

Non-asbestos rubber and corlon sheet flooring is present in various areas of the building. Vinyl sheet flooring is presumed to be non-asbestos based on historical knowledge of the type of flooring (foam) or based on the lack of a paper backing layer (underpad).

3.6.10 Vinyl Floor Tile and Mastic

Vinyl floor tiles are present as follows:

Size, Pattern, Colour and Photo Number	Locations (Quantity)	Sample Number	Asbestos Type (tile)	Asbestos Type (mastic)
9" x 9", white with brown lines, Photo 1	Level 0 Corridor, Room 16 and Adjacent Exam Room	46653.005-002a, 2018-0003A-C	Chrysotile	None Detected
12" x 12", white with black flecks, Photo 2	Level 0 Corridor	46653.005-003a-c	None Detected	None Detected
12" x 12", brown with dark brown flecks, Photos 3 & 4	Level 0 Room 12	46653.005-008a, 2018-0005A-C	Chrysotile	None Detected
12" x 12", beige with brown lines, Photo 5	Level 0 Room 10	46653.005-009a	Chrysotile	None Detected
9" x 9", brown with white and brown lines, Photo 6	Level 0 Rooms 1, 3, 4, 8, 13, 17, Telephone Room, Janitor's Closet	46653.005-011a, 2018-0004A	Chrysotile	Chrysotile

The vinyl floor tiles and mastic are non-friable and range from damaged to good condition.



Photo 1 – Asbestos-containing 9" x 9" vinyl floor tiles, white with brown lines, Level 0 Corridor.



Photo 2 – Non-asbestos 12" x 12" vinyl floor tiles, white with black flecks, Level 0 Corridor.



Photo 3 – Asbestos-containing 12" x 12" vinyl floor tiles, brown with dark brown flecks, Room 12, Level 0.



Photo 4 – Damaged asbestos-containing 12" x 12" vinyl floor tiles, brown with dark brown flecks, Room 12, Level 0.

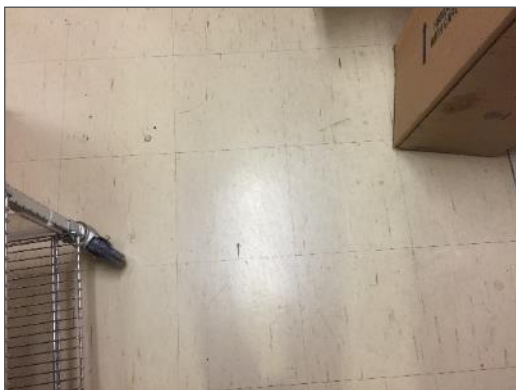


Photo 5 – Asbestos-containing 12" x 12" vinyl floor tiles, beige with brown lines, Room 10, Level 0.



Photo 6 – Asbestos-containing 9" x 9" vinyl floor tiles, brown with white and brown lines, Level 0 Telephone Room.

3.6.11 Other Building Materials

Textile vibration dampers at duct connections are presumed to contain asbestos and are present above the lay-in ceiling tiles in the Front Entrance Foyer. Vibration dampers are non-friable material and are in good condition.

3.7 North and South 90 Wing/E & F Wings

3.7.1 Spray-Applied Fireproofing and Thermal Insulation

Sprayed fireproofing or sprayed thermal insulation was not found.

3.7.2 Pipe Insulation

Parging cement, containing chrysotile asbestos (previously sampled), is present on pipe fittings (elbows, valves, tees, hangers etc.) on the majority of insulated systems. Parging cement is a friable insulation, jacketed with canvas and ranges from fair to good condition.

A white corrugated paper insulation (trade name Aircell), containing chrysotile asbestos (previously sampled), is present on straight sections of hot water heating system pipes. Aircell is a friable insulation, jacketed with canvas and is in good condition.

Non-asbestos sweatwrap insulation (brown layered paper), is present on straight sections of drain pipes throughout the building (visually as per samples 46653.005-005a-c and 200249.057 samples 004A-C).

Pipes insulated with friable asbestos insulations may also be present in inaccessible spaces such as above solid ceilings, behind solid walls, in chases, in column enclosures and within shafts.



Asbestos-containing parging cement on pipe fittings,
Basement Mechanical Room.

3.7.3 Duct Insulation

Parging cement, containing chrysotile asbestos, is present over the fittings, edges, seams and pins of fibreglass insulation on ducts (samples 46653.005-034a) in the Basement and Penthouse. Parging cement is a friable insulation, jacketed with canvas and is in good condition.

Remaining ducts are either uninsulated or insulated with non-asbestos fibreglass (foil-faced or canvas).



Asbestos-containing parging cement on ducts, Penthouse.



Asbestos-containing parging cement on ducts, Penthouse.

3.7.4 Mechanical Equipment Insulation

Parging cement, containing chrysotile asbestos (previously sampled), is present over fibreglass insulation on the round exhaust from the diesel generator in the south end of the Basement. Parging cement is a friable insulation and is in good condition.

Parging cement, containing chrysotile asbestos (previously sampled), is present over fibreglass insulation on the condensate tank present within the Basement east of the elevator. Parging cement is a friable insulation and is in good condition.

Insulation board, containing chrysotile asbestos, is present on interior surfaces of radiator boxes present throughout the perimeter of the wing. This material was identified during sampling by HHS in April 2013 (EMC Lab Sample A10365-1 & A10365-4, HHS samples S01a and S02a). The insulation is friable, jacketed with foil, and in good condition.

The remainder of mechanical equipment is either uninsulated or insulated with non-asbestos fibreglass.

3.7.5 Vermiculite

Loose fill vermiculite debris was not observed in the spaces or areas inspected. Destructive testing was not performed and vermiculite may be present within masonry block walls, above solid ceilings or other void spaces.

3.7.6 Acoustic Ceiling Tiles

Acoustic ceiling tiles are presumed to be non-asbestos based on the date of manufacture determined from the date stamp applied to the top of the tiles (1994-2000) and based on the nature of the material (fibreglass). The tiles were manufactured after asbestos stopped being used in acoustic ceiling tiles.

Additional sampling performed by ECOH in 2017 confirmed the ceiling tiles to be non-asbestos (refer to the bulk sampling report in Appendix IV).

3.7.7 Plaster

Smooth plaster is present on walls and ceilings throughout the E-Wing. Sampling during the 2008 reassessment determined the plaster to be non-asbestos containing within accessible areas. Additional sampling performed by ECOH in 2017 confirmed the plaster to be non-asbestos (refer to the bulk sampling report in Appendix IV).

Rough plaster is present as ceiling finish within the stairwells of E-Wing and F-Wing. Sampling performed by ECOH in 2017 determined this plaster to contain chrysotile asbestos (refer to the bulk sampling report in Appendix IV). Plaster is non-friable while in place, but generates friable dust upon removal. All plaster is painted and is in good condition.

Asbestos-containing plaster was identified as a wall and ceiling finish in Level 0 of F Wing during an assessment conducted by Safetech Environmental Ltd. in January 2013. All plaster in this area should be considered asbestos-containing. Plaster is non-friable while in place, but generates friable dust upon removal. All plaster is painted and is in good condition except above lay-in ceilings where some debris was noted. Additional sampling of plaster in F-Wing confirmed the plaster to be asbestos-containing.

3.7.8 Drywall Joint Compound

Drywall joint compound present on wall and ceiling finishes in limited locations in the wing does not contain asbestos (samples 46653.005-021a-c). Additional sampling performed by ECOH in 2017 confirmed the drywall joint compound to be non-asbestos (refer to the bulk sampling report in Appendix IV).

3.7.9 Vinyl Sheet Flooring

Vinyl sheet flooring present in F Wing Level 0 was reported to be non-asbestos based on sampling performed by Safetech Environmental Ltd. as reported by HHS.

Non-asbestos rubber and corlon sheet flooring is present in various areas of the building. Vinyl sheet flooring is presumed to be non-asbestos based on historical knowledge of the type of flooring (foam) or based on the lack of a paper backing layer (underpad).

3.7.10 Vinyl Floor Tile and Mastic

Vinyl floor tiles are present as follows:

Size, Pattern, Colour and Photo Number	Locations	Sample Number	Asbestos Type (tile)	Asbestos Type (mastic)
9" x 9", brown with thin brown lines, Photo 1	E Wing Level 1 Corridor (North), E & F Wing Level 4 Corridors (North and South)	46653.005-007a, 2018-0006A-C	Chrysotile	Non-asbestos. A trace amount of chrysotile asbestos (<0.5%) was detected
9" x 9", green with black flecks, Photo 2	E Wing Level 2 Corridor (North), F Wing Level 5 Corridor (South)	46653.005-019a, 2018-0010A-C	Chrysotile	None Detected
9" x 9", white with blue lines, Photo 3	F Wing Level 1 Health Records (South), E Wing Level 2 Sun Room (North), Level 3 Reception, Family Room And Lounge (South), Level 3 Lounge (North), Level 4 Staff And Patient Lounge (South), Level 5 Waiting Area And Staff Room (South)	46653.005-020a	Chrysotile	None Detected
9" x 9", brown flecks, Photo 4	E & F Wing Level 3 Corridor (North and South)	46653.005-022a, 2018-0007A-C	Chrysotile	Non-asbestos. A trace amount of chrysotile asbestos (<0.5%) was detected
9" x 9", black and green flecks, Photo 5	E Wing Level 5 Throughout (North)	46653.005-035a, 2018-0009A	None detected	Chrysotile
12" x 12", brown/beige/blue/red with flecks, Photo 6	E Wing Level 4 Medical And Patient Lounge (North)	2018-0008A-C	None	None Detected

The vinyl floor tiles and mastic are non-friable and are in good condition.

Remaining styles of vinyl floor tiles were presumed to be non-asbestos based on historical knowledge of the date of installation (post 1993).



Photo 1 - Asbestos-containing 9" x 9" vinyl floor tiles, brown with thin brown lines, Level 1 E Wing North.



Photo 2 - Asbestos-containing 9" x 9" vinyl floor tiles, green with black flecks, Level 2 E Wing North.



Photo 3 - Asbestos-containing 9" x 9" vinyl floor tiles, white with blue lines, Level 2 E Wing North Lounge.



Photo 4 - Asbestos-containing 9" x 9" vinyl floor tiles, brown flecks, Level 2 E Wing Corridor North.



Photo 5 – Non-asbestos 9" x 9" vinyl floor tiles with asbestos-containing mastic, black and green flecks, E Wing Level 5 (North).

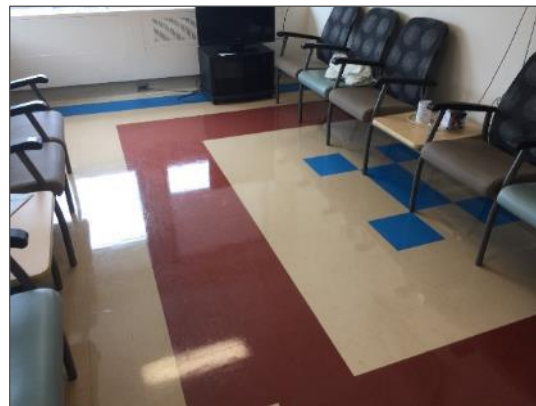


Photo 6 – Non-asbestos 12" x 12" vinyl floor tiles and mastic, brown/beige/blue/red with flecks, E Wing Level 4 Medical And Patient Lounge (North).

3.7.11 *Other Building Materials*

Bakelite, containing chrysotile asbestos (217420.022 samples 0001A-C) is present as bench tops, shelving, and back splashes in Lab F2 214, and is expected to be present throughout the wing. Bakelite is non-friable and in good condition.

Paper heat shields, presumed to contain asbestos, are present within incandescent light fixtures throughout. Paper heat shields are potentially friable and in good condition.

3.8 Former Kitchen Area – A Wing Level 0

The Kitchen Area has been renovated since the 2008 reassessment investigation and is currently an office and diagnostics area. The majority of finishes include drywall walls, ceilings & bulkheads, acoustic lay-in ceiling tiles, vinyl and corlon sheet flooring. All accessible finishes are presumed to be non-asbestos based on the date of renovation.

Asbestos-containing parging cement is presumed to be present on pipe fittings above solid ceilings and within pipe chases and other inaccessible areas throughout the building.

3.9 New Power House

Based on the date of construction of the New Power House (2000's) all building materials are presumed to be non-asbestos. The beige sprayed fireproofing present throughout the building was sampled by ECOH in 2017 and confirmed to be non-asbestos (ECOH samples 16262-JH-04A-C).

3.10 Concession Street Parking Garage

Pinchin performed a hazardous building materials assessment of the Concession Street Parking Garage on April 30, 2018. Please refer to Appendix V for the report findings.

3.11 Presumed Asbestos Materials

A number of materials which might contain asbestos were not sampled during this assessment due to limitations in scope and methodology. Where present, these materials are presumed to contain asbestos until otherwise proven by sampling and analysis.

Materials presumed to contain asbestos include:

- Roofing, felts, and tar
- Concrete floor levelling compound
- Elevator and lift brakes

- Electrical components or wiring within control centers, breakers, motors or lights, insulation on wiring
- Moulded plastic components (laboratory bench tops)
- Refractory materials and insulations in boilers, incinerators and stacks
- Insulation under metal clad boilers and vessels
- Vermiculite in concrete block wall cavities
- Adhesives and duct mastics
- Caulking
- Fibre reinforced paints and coatings
- Paper products
- Soffit and fascia boards
- Mechanical packing, ropes and gaskets
- Fire resistant doors or metal clad finishes
- Stucco, plaster or other cementitious parge coatings
- Vibration dampers on HVAC equipment

4.0 RECOMMENDATIONS

4.1 General

Perform a detailed intrusive assessment prior to building renovation or demolition operations. The assessment should include destructive testing (i.e. coring and/or removal of building finishes and components), and sampling of other hazardous materials (lead, mercury, PCBs, mould, etc.) and materials not tested in this study (e.g. roofing materials, caulking, mastics).

4.2 Remedial Work

The following remedial work is recommended.

Material, Quantity & Condition, Photo #	Location	Recommended Procedure
Parging cement on pipe fitting, 1 fitting in fair condition, Photo 1	R Wing Upper Basement Level near Office	Repair in accordance with Type 2 asbestos procedures
Aircell on pipe straights, 4 linear feet in fair condition, Photo 2	West Corridor in M Wing Basement	Repair in accordance with Type 2 asbestos procedures



Material, Quantity & Condition, Photo #	Location	Recommended Procedure
Aircell on pipe straights, 3 taped ends in fair condition, Photo 3	Corridor at gate to R Wing, M Wing Basement	Repair in accordance with Type 2 asbestos procedures
Aircell on pipe straights, 3 exposed ends in fair condition, Photo 4	Corridor near North Stairwell, M Wing Basement	Repair in accordance with Type 2 asbestos procedures
Aircell on pipe straights and parging cement on pipe fittings, 3 unjacketed ends and 1 unjacketed fitting in fair condition, Photo 5	South Corridor in M Wing Basement	Repair in accordance with Type 2 asbestos procedures
Aircell on pipe straights and parging cement on pipe fittings 3 taped ends and 3 fittings in fair condition, Photos 6 & 7	South Storage Room in M Wing Basement	Repair in accordance with Type 2 asbestos procedures
Aircell debris and garbage bags with asbestos waste labels, 10 square feet of debris and 2 garbage bags, Photos 8 & 9	Small Room within South Storage Room in M Wing Basement	Clean-up in accordance with Type 2 asbestos procedures
Parging cement on pipe fittings, 4 fittings in fair condition, Photos 10 & 11	Level 0 Mechanical Room, G Wing	Repair in accordance with Type 2 asbestos procedures
12" x 12" vinyl floor tiles, brown with dark flecks, 13 square feet in poor condition, Photo 12	Level 0 Room 12, G Wing	Remove in accordance with Type 1 asbestos abatement procedures
Textured plaster ceiling, 6 square feet in fair condition, Photo 13	G Wing Level 4 East Stairwell	Repair in accordance with Type 2 asbestos procedures
Parging cement on valve, 1 fitting in fair condition, Photo 14	Near column R22 in Basement Mechanical Room in E/F 90 Wing	Repair in accordance with Type 2 asbestos procedures
Parging cement on elbows, 4 fittings in fair condition, Photos 15 & 16	Near ladder from shop area and column X18 in Basement tunnels at Mechanical Room in E/F 90 Wing	Repair in accordance with Type 2 asbestos procedures
Parging cement on pipe fitting, 1 fitting in fair condition cover with duct tape, Photo 17	Penthouse, 90 Wing	Repair in accordance with Type 2 asbestos procedures



Photo 1 – Aircell in fair condition, Corridor at gate to R Wing, M Wing Basement.



Photo 2 – Aircell in fair condition, West Corridor, M Wing Basement.

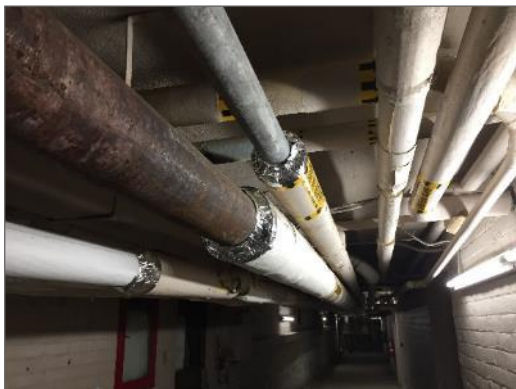


Photo 3 – Aircell in fair condition, Corridor at gate to R Wing, M Wing Basement.



Photo 4 – Aircell in fair condition, Corridor near North Stairwell, M Wing Basement.

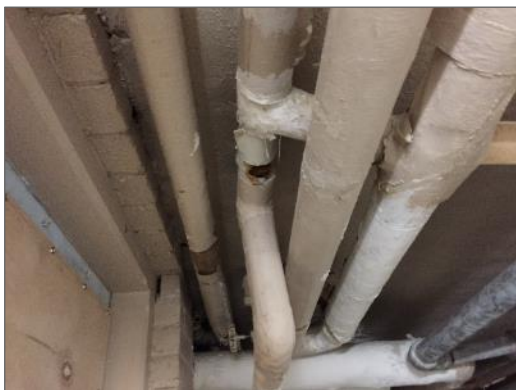


Photo 5 – Parging cement in fair condition, South Corridor, M Wing Basement.



Photo 6 – Parging cement in fair condition, South Storage Room, M Wing Basement.



Photo 7 – Taped ends of Aircell in fair condition, South Storage Room, M Wing Basement.



Photo 8 – Aircell debris on floor, Small Room in South Storage Room, M Wing Basement.

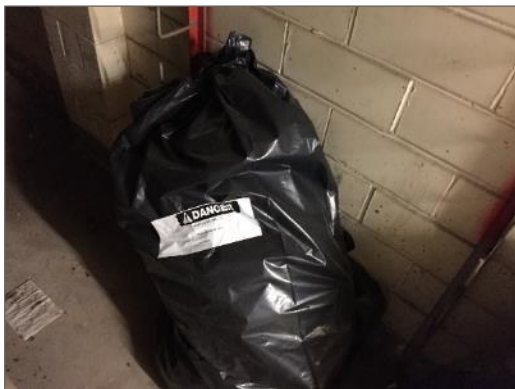


Photo 9 – Garbage bag with asbestos waste label, Small Room in South Storage Room, M Wing Basement.



Photo 10– Asbestos-containing parging cement in fair condition covered with plastic wrap at pipe fittings, Level 0 G Wing Mechanical Room.



Photo 11 – Asbestos-containing parging cement in fair condition on pipe fittings, Level 0 G Wing Mechanical Room.



Photo 12– Asbestos-containing 12” x 12” vinyl floor tiles in poor condition, Level 0 Room 12, G Wing.



Photo 13 – Damaged asbestos-containing plaster on ceiling, Level 4 G Wing East Stairwell.



Photo 14 – Asbestos-containing parging cement in fair condition at pipe fitting, 90 Wing E/F Basement Mechanical Room near column R22.



Photo 15 – Asbestos-containing parging cement in fair condition covered with duct tape at pipe fittings, 90 Wing E/F Basement Mechanical Room tunnel at Shop Area.



Photo 16 – Asbestos-containing parging cement in fair condition covered with duct tape at pipe fittings, 90 Wing E/F Basement Mechanical Room tunnel at Shop Area.



Photo 17 – Asbestos-containing parging cement in fair condition covered with duct tape at pipe fittings, 90 Wing E/F Basement Mechanical Room tunnel at Shop Area.



4.3 On-going Management and Maintenance

The following recommendations are made regarding on-going management and maintenance work involving the asbestos materials identified.

4.3.1 Asbestos

Continue to apply the policies and procedures as outlined in the building's Asbestos Management Program (AMP).

Perform a reassessment of asbestos materials on at least an annual basis.

Remove asbestos-containing materials (ACM) prior to alteration or maintenance work if ACM may be disturbed by the work. Follow appropriate asbestos precautions for the classification of work being performed.

Update the asbestos inventory report upon completion of any abatement and removal of asbestos-containing materials.

5.0 TERMS AND LIMITATIONS

This work was performed subject to the Terms and Limitations presented or referenced in the proposal for this project.

Information provided by Pinchin is intended for Client use only. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law. Any use by a third party of reports or documents authored by Pinchin or any reliance by a third party on or decisions made by a third party based on the findings described in said documents, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted. No other warranties are implied or expressed.

6.0 REFERENCES

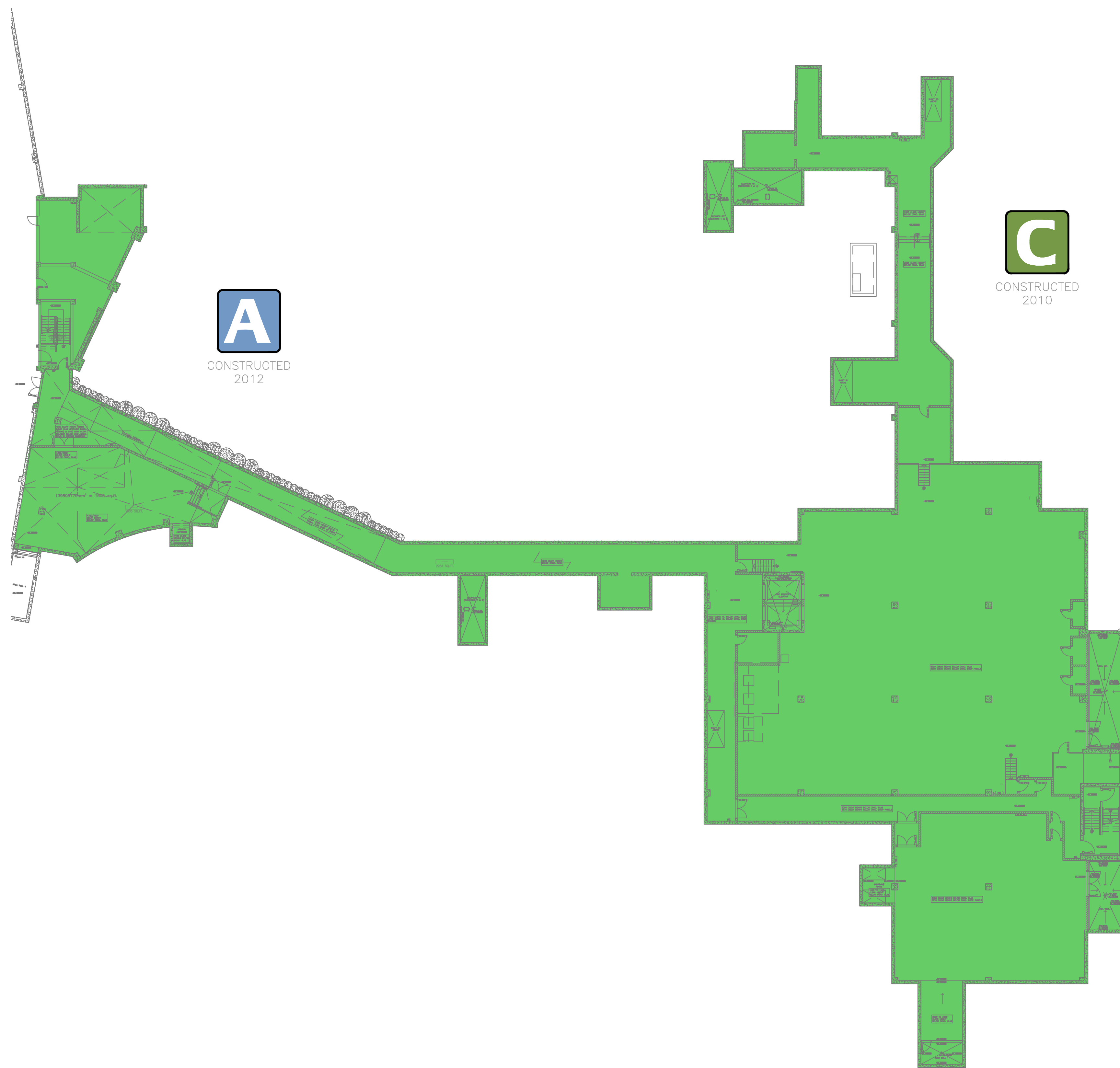
The following legislation and documents were referenced in completing the assessment and this report:

1. Asbestos on Construction Projects and in Buildings and Repair Operations, Ontario Regulation 278/05.
2. Designated Substances, Ontario Regulation 490/09.

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HAMHEALT,2018AsbReassess,VarSit,ASB,CONS\Deliverables\Juravinski\217420.030 Final Asbestos Reassessment Report Juravinski HHS January 16 2019.docx

Template: Master Report for Asbestos Assessment, Haz, March 27, 2018

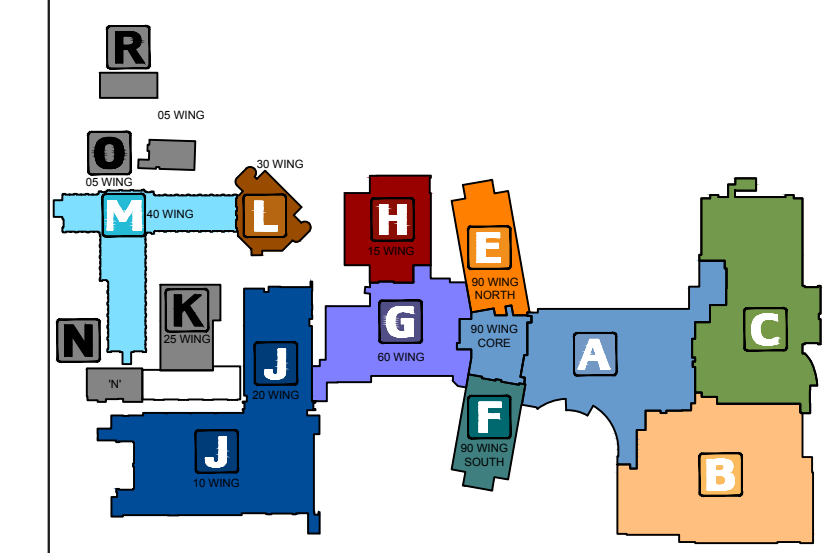
APPENDIX I
Drawings



A
CONSTRUCTED
2012

C
CONSTRUCTED
2010

B
CONSTRUCTED
2010



KEY PLAN N.T.S.

NO.	DATE M/D/Y	REVISIONS	BY
1	1/1/2013	UPDATED	GS
2	2/1/2013	UPDATED	GS
3	3/1/2013	UPDATED	GS
4	4/1/2013	REVIEWED WITHOUT REVISION	GS
5	5/1/2013	REVIEWED WITHOUT REVISION	GS
6	6/1/2013	REVIEWED WITHOUT REVISION	GS
7	7/1/2013	REVIEWED WITHOUT REVISION	GS
8	8/1/2013	REVIEWED WITHOUT REVISION	GS
9	9/1/2013	REVIEWED WITHOUT REVISION	GS
10	10/1/2013	REVIEWED WITHOUT REVISION	GS
11	11/1/2013	REVIEWED WITHOUT REVISION	GS
12	1/24/2014	REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015	REVISED BY PINCHIN LTD.	

LEGEND:
 ACM FREE OR ABATED AREAS AS PER HHS RECORDS

GENERAL NOTES:

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JURAVINSKI SITE

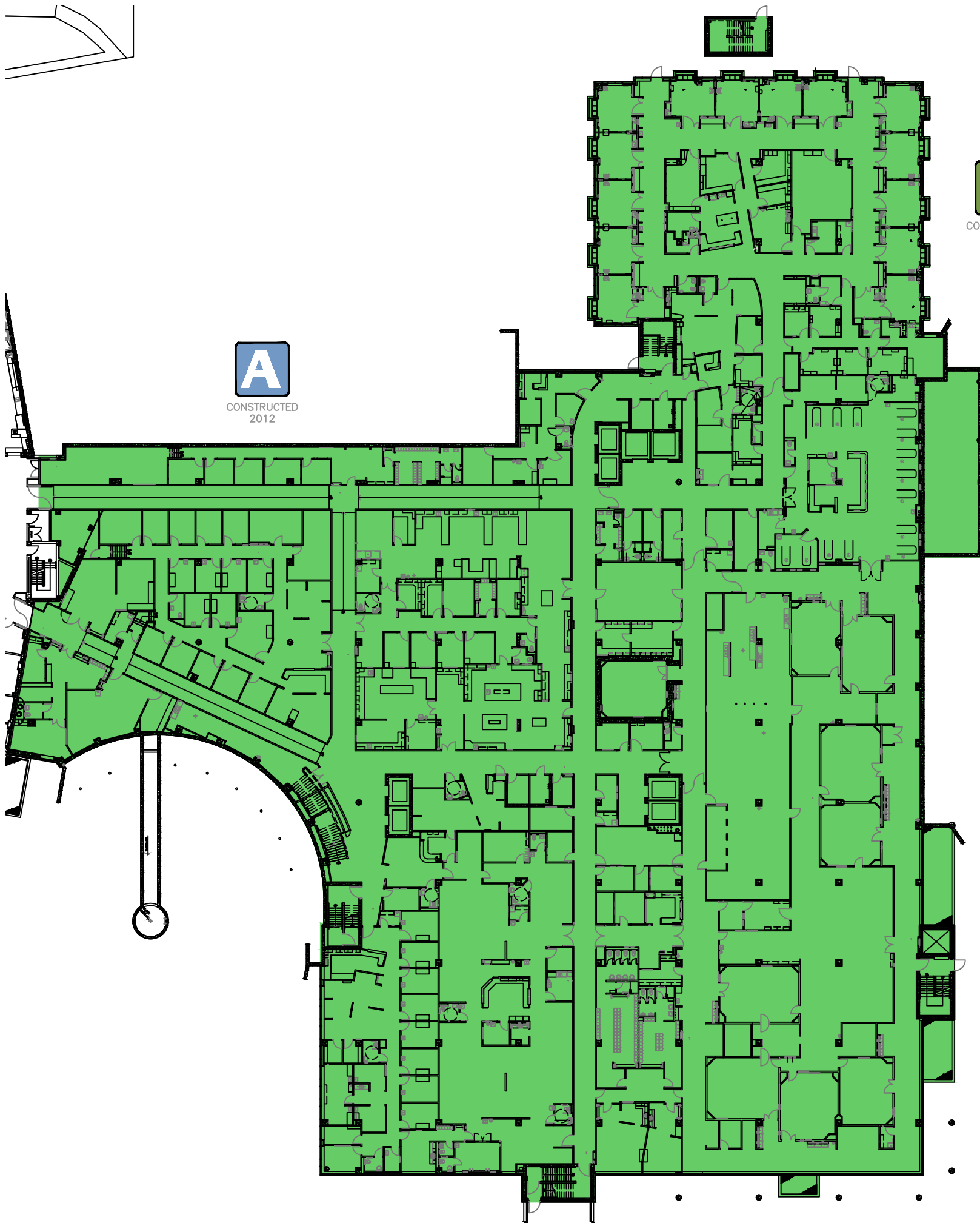


PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING:
LEVEL B SECTION 'A', 'B', AND 'C' ACM FREE

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NO: 1425030 RA-01 Floor Level B Juravinski

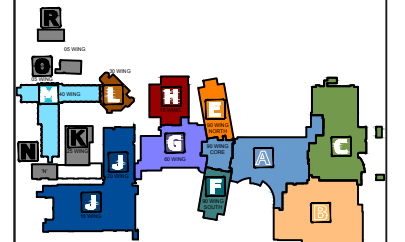
ABC-RA-01



A
CONSTRUCTED
2012

C
CONSTRUCTED
2010

B
CONSTRUCTED
2010



KEY PLAN N.T.S.

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8	9/1/2013		REVIEWED WITHOUT REVISION	GS
9	10/1/2013		REVIEWED WITHOUT REVISION	GS
10	11/1/2013		REVIEWED WITHOUT REVISION	GS
11	3/31/2016		UPDATED BY ECOH	MM
12	6/15/2017		UPDATED BY ECOH	JK
13	11/2/2018		UPDATED BY PINCHN LIMITED	JB

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Hamilton Health Sciences
FACILITIES MANAGEMENT

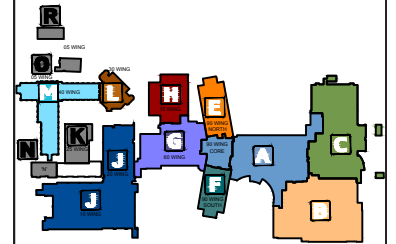
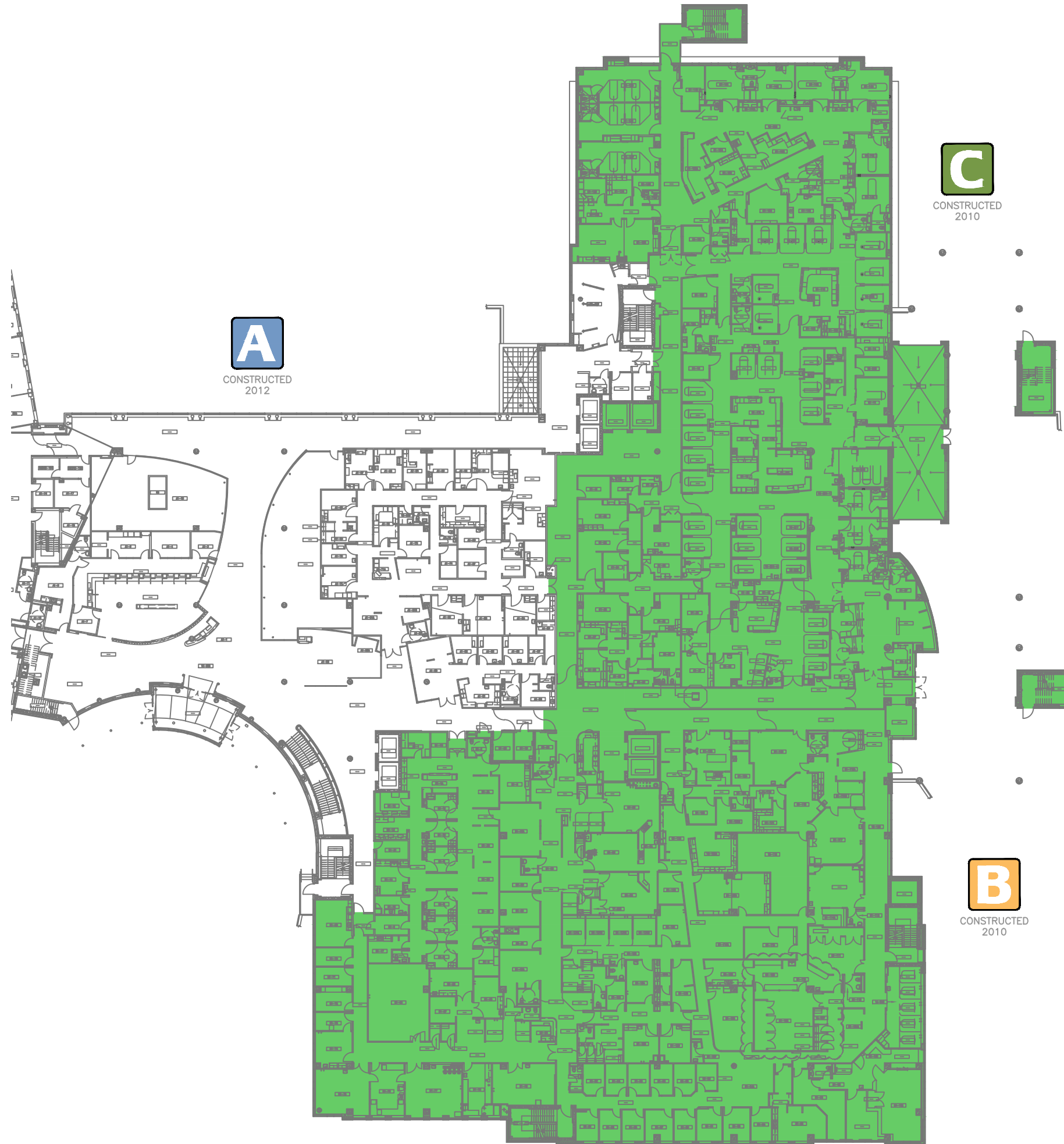
PROJECT:
 JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS:
 LEVEL 0 SECTION 'A', 'B', AND 'C' ACM FREE

PLOT DATE: NOVEMBER 2018 SCALE: N.T.S. DRAWN BY: JORDAN BOULOS DRAWING NO.	DEPARTMENT: HAZARDOUS MATERIALS SUPERVISOR: MICHAEL MAIORANA FILE NAME: 1720030 RA-02 Floor Level 0 Juravinski
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ABC-RA-02

SHEET SIZE = ARCH D - 24" x 36" (IMPERIAL) = 610mm x 914mm (METRIC)



KEY PLAN N.T.S.

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10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

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JURAVINSKI SITE

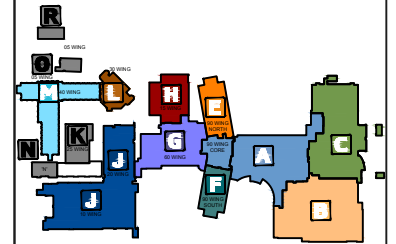
Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS: LEVEL 1 SECTION 'A', 'B', AND 'C' ACM FREE

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 17207030 RA-03 Floor Level 1 Juravinski
DRAWING NO.	

ABC-RA-03



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
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12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND:

 ACM FREE OR ABATED AREAS AS PER HHS RECORDS

JURAVINSKI SITE



PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING:
LEVEL 2 SECTION 'A', 'B', AND 'C' ACM FREE

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 17/20130 RA-04 Floor Level 2 Juravinski
DRAWING No.	

ABC-RA-04

C
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2010

A
CONSTRUCTED
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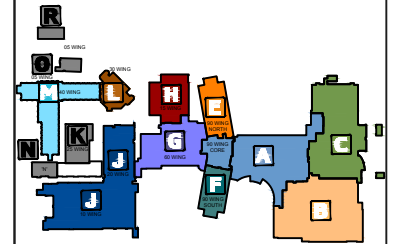
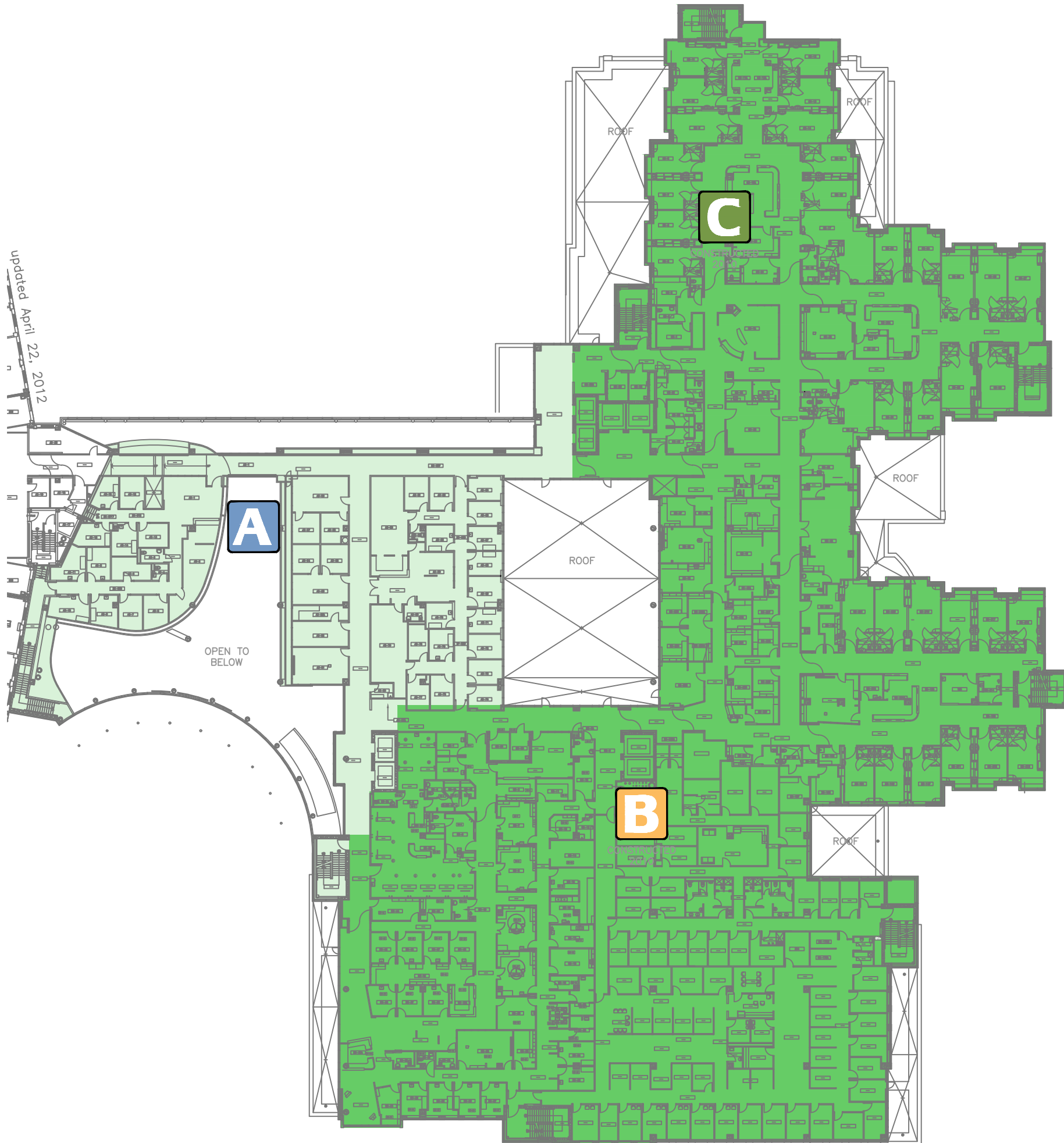
LEVEL 1 CEILING SPACE
LEVEL 1 CEILING SPACE ONLY

B
CONSTRUCTED
2010

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updated April 22, 2012



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND:
 ACM FREE OR ABATED AREAS AS PER HHS RECORDS

- GENERAL NOTES:
- DRAWINGS HAVE BEEN CONVERTED FROM A CONTRACTED SOURCE JANUARY 2013 AND WILL BE MAINTAINED BY HHS ENGINEERING STAFF.
 - DRAWINGS SHALL BE READ IN CONJUNCTION WITH HHS ASBESTOS MANAGEMENT PLAN AND SURVEYS AVAILABLE ON THE HHS INTRANET, AND HARDCOPY IN THE SITES ENGINEERING DEPT.
 - AREAS WITHOUT A DESIGNATION OF ACM (ASBESTOS CONTAINING MATERIAL) SHALL BE TREATED AS ACM UNTIL PROVEN OTHERWISE.
 - PRIOR TO UNDERTAKING ANY REPAIR RENOVATION OR DEMOLITION, REVIEW THE AMP (ASBESTOS MANAGEMENT PLAN) AND SURVEY PRIOR TO COMMENCEMENT OF WORK.
 - IF YOU SUSPECT A MATERIAL TO BE ACM IN AN AREA SHOWN TO BE FREE OF ACM, CONTACT THE ASBESTOS COORDINATOR FOR CONSULTATION.

JURAVINSKI SITE

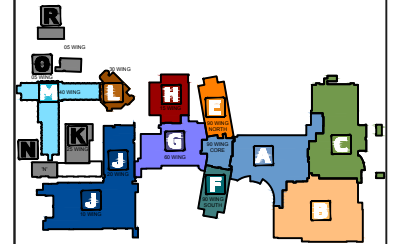
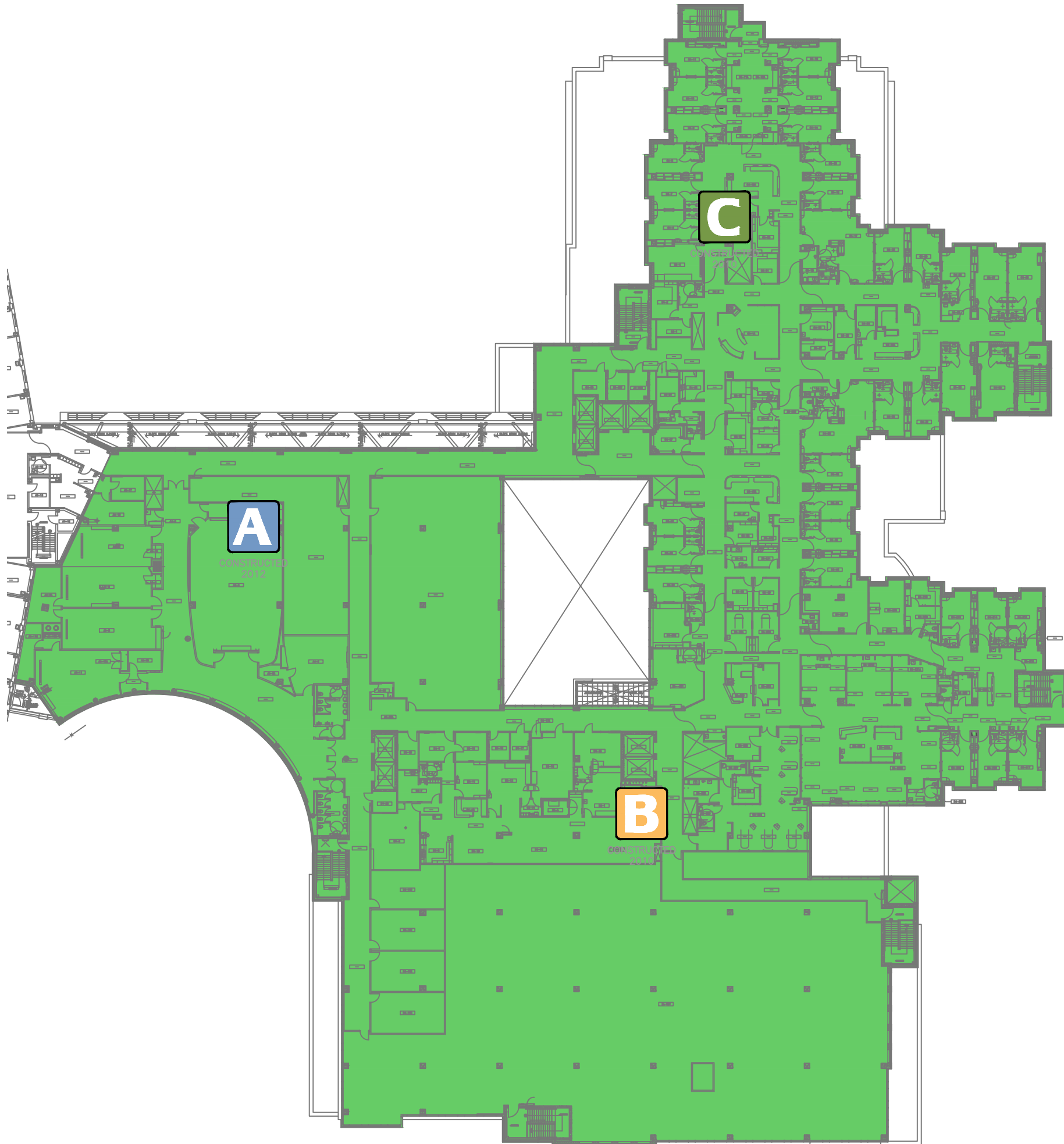
Hamilton Health Sciences
 FACILITIES MANAGEMENT

PROJECT:
 JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS:
 LEVEL 3
 SECTION 'A', 'B', AND 'C'
 ACM FREE

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 11/2013 RA-05 Floor Level 3 Juravinski
DRAWING No.	

ABC-RA05



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
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7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND:
 ACM FREE OR ABATED AREAS AS PER HHS RECORDS

- GENERAL NOTES:
- DRAWINGS HAVE BEEN CONVERTED FROM A CONTRACTED SOURCE JANUARY 2013 AND WILL BE MAINTAINED BY HHS ENGINEERING STAFF.
 - DRAWINGS SHALL BE READ IN CONJUNCTION WITH HHS ASBESTOS MANAGEMENT PLAN AND SURVEYS AVAILABLE ON THE HHS INTRANET, AND HARDCOPY IN THE SITES ENGINEERING DEPT.
 - AREAS WITHOUT A DESIGNATION OF ACM (ASBESTOS CONTAINING MATERIAL) SHALL BE TREATED AS ACM UNTIL PROVEN OTHERWISE.
 - PRIOR TO UNDERTAKING ANY REPAIR RENOVATION OR DEMOLITION, REVIEW THE AMP (ASBESTOS MANAGEMENT PLAN) AND SURVEY PRIOR TO COMMENCEMENT OF WORK.
 - IF YOU SUSPECT A MATERIAL TO BE ACM IN AN AREA SHOWN TO BE FREE OF ACM, CONTACT THE ASBESTOS COORDINATOR FOR CONSULTATION.

JURAVINSKI SITE

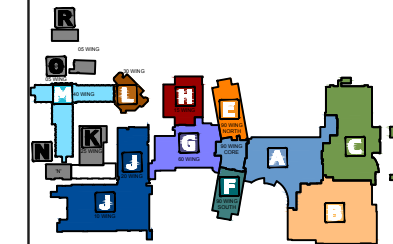
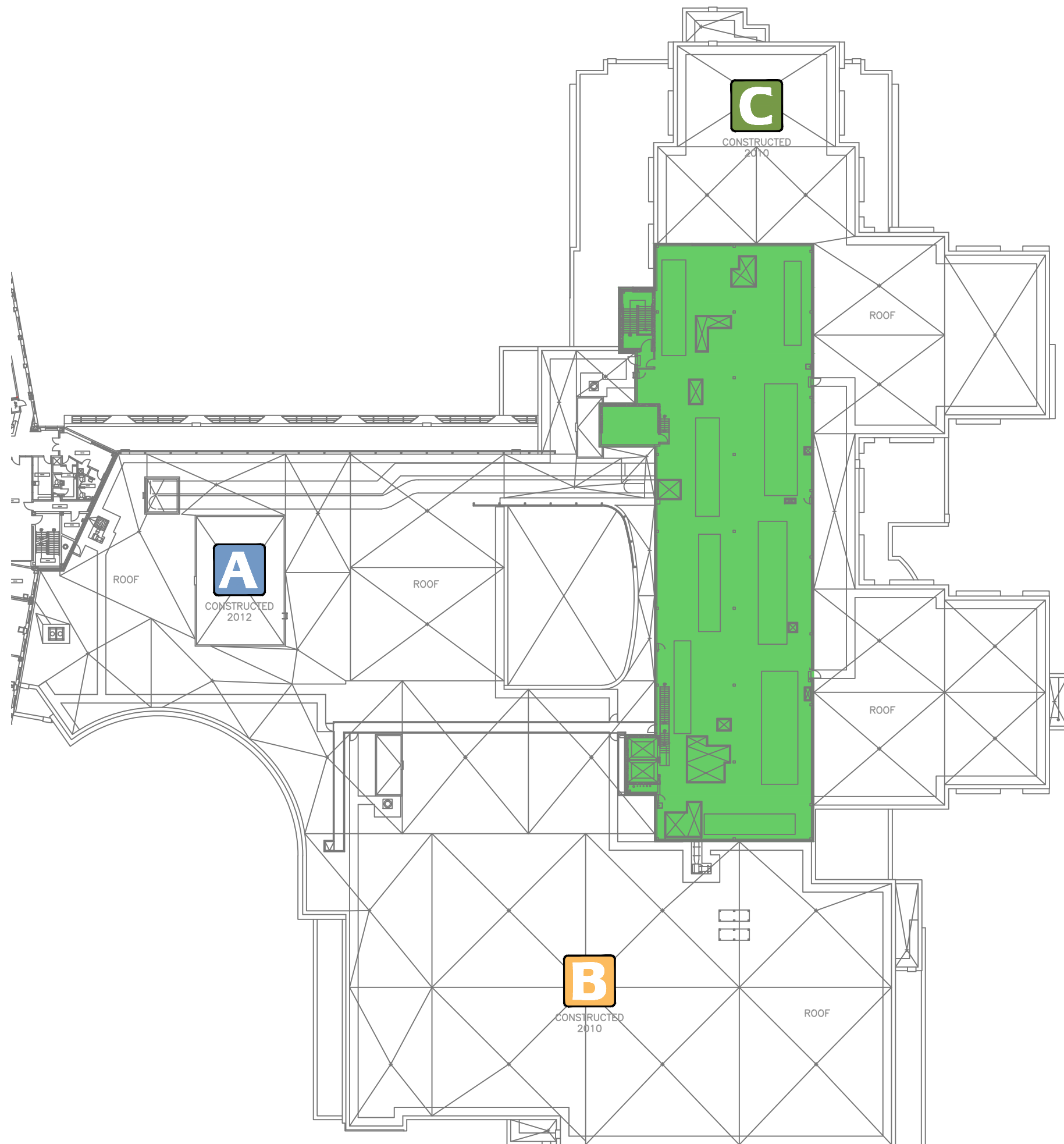
Hamilton Health Sciences
 FACILITIES MANAGEMENT

PROJECT:
 JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING:
 LEVEL 4 SECTION 'A', 'B', AND 'C' ACM FREE

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 117420030 RA-06 Floor Level 4 Juravinski
DRAWING No.	

ABC-RA-06



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
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7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND:
 ACM FREE OR ABATED AREAS AS PER HHS RECORDS

- GENERAL NOTES:**
- DRAWINGS HAVE BEEN CONVERTED FROM A CONTRACTED SOURCE JANUARY 2013 AND WILL BE MAINTAINED BY HHS ENGINEERING STAFF.
 - DRAWINGS SHALL BE READ IN CONJUNCTION WITH HHS ASBESTOS MANAGEMENT PLAN AND SURVEYS AVAILABLE ON THE HHS INTRANET, AND HARDCOPY IN THE SITES ENGINEERING DEPT.
 - AREAS WITHOUT A DESIGNATION OF ACM (ASBESTOS CONTAINING MATERIAL) SHALL BE TREATED AS ACM UNTIL PROVEN OTHERWISE.
 - PRIOR TO UNDERTAKING ANY REPAIR RENOVATION OR DEMOLITION, REVIEW THE AMP (ASBESTOS MANAGEMENT PLAN) AND SURVEY PRIOR TO COMMENCEMENT OF WORK.
 - IF YOU SUSPECT A MATERIAL TO BE ACM IN AN AREA SHOWN TO BE FREE OF ACM, CONTACT THE ASBESTOS COORDINATOR FOR CONSULTATION.

JURAVINSKI SITE

Hamilton Health Sciences
 FACILITIES MANAGEMENT

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS: LEVEL 5 SECTION 'A', 'B', AND 'C' ACM FREE

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 1/17/2013 RA-07 Floor Level 5 Juravinski
DRAWING No.	

ABC-RA07

SHEET SIZE = ARCH 'D' - 24" x 36" (610mm x 914mm) (NETING)

INTER LEVEL 5

H
15 WING
CONSTRUCTED
1990
RENOVATED
2010

L
TO 'L'
30 WING

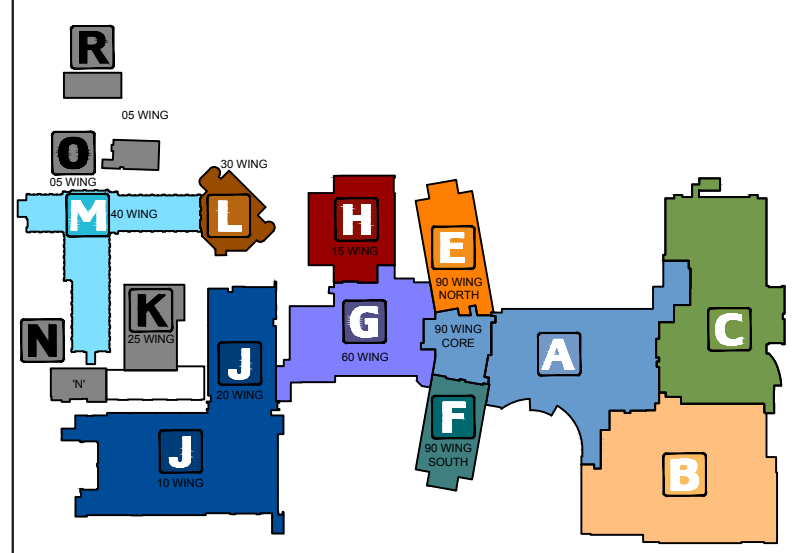
M
TO 'M'
40 WING

G
TO 'G'
60 WING

E
90 WING N
CONSTRUCTED
1962
RENOVATED
2012

F
TO 'F'
90 WING S

A
TO 'A'
90 WING CORE



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
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9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:
- ACM VINYL FLOOR TILES
 - ACM VINYL SHEET FLOORING
 - NO ACCESS TO ROOM/AREA
 - ACM FREE OR ABATED AREAS AS PER HHS RECORDS

- GENERAL NOTES:
- DRAWINGS HAVE BEEN CONVERTED FROM A CONTRACTED SOURCE JANUARY 2013 AND WILL BE MAINTAINED BY HHS ENGINEERING STAFF.
 - DRAWINGS SHALL BE READ IN CONJUNCTION WITH HHS ASBESTOS MANAGEMENT PLAN AND SURVEYS AVAILABLE ON THE HHS INTRANET, AND HARDCOPY IN THE SITES ENGINEERING DEPT.
 - AREAS WITHOUT A DESIGNATION OF ACM (ASBESTOS CONTAINING MATERIAL) SHALL BE TREATED AS ACM UNTIL PROVEN OTHERWISE.
 - PRIOR TO UNDERTAKING ANY REPAIR RENOVATION OR DEMOLITION, REVIEW THE AMP (ASBESTOS MANAGEMENT PLAN) AND SURVEY PRIOR TO COMMENCEMENT OF WORK.
 - IF YOU SUSPECT A MATERIAL TO BE FREE OF ACM IN AN AREA SHOWN TO BE FREE OF ACM, CONTACT THE ASBESTOS COORDINATOR FOR CONSULTATION.

JURAVINSKI SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING: LEVEL B SECTION 'E' AND 'H' ACM ON FLOOR

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE: 1425030 RA-01 Floor Level B Juravinski
DRAWING No.	

EH-RA-01A

SHEET SIZE = ARCH 'D' - 24" x 36" (METERS) = 610mm x 914mm (METRIC)

SHEET SIZE = ARCH D - 24" x 36" (IMPERIAL) = 610mm x 914mm (METRIC)



H

15 WING
CONSTRUCTED
1990
RENOVATED
2010

L

TO 'L'
30 WING

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TO 'M'
40 WING

G

TO 'G'
60 WING

E

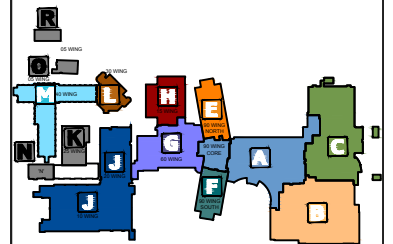
90 WING N
CONSTRUCTED
1962
RENOVATED
2012

F

TO 'F'
90 WING S

A

TO 'A'
90 WING CORE



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
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10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:**
- ACM PRESENT
 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

- GENERAL NOTES:**
- DRAWINGS HAVE BEEN CONVERTED FROM A CONTRACTED SOURCE JANUARY 2013 AND WILL BE MAINTAINED BY HHS ENGINEERING STAFF.
 - DRAWINGS SHALL BE READ IN CONJUNCTION WITH HHS ASBESTOS MANAGEMENT PLAN AND SURVEYS AVAILABLE ON THE HHS INTRANET, AND HARDCOPY IN THE SITES ENGINEERING DEPT.
 - AREAS WITHOUT A DESIGNATION OF ACM (ASBESTOS CONTAINING MATERIAL) SHALL BE TREATED AS ACM UNTIL PROVEN OTHERWISE.
 - PRIOR TO UNDERTAKING ANY REPAIR RENOVATION OR DEMOLITION, REVIEW THE AMP (ASBESTOS MANAGEMENT PLAN) AND SURVEY PRIOR TO COMMENCEMENT OF WORK.
 - IF YOU SUSPECT A MATERIAL TO BE ACM IN AN AREA SHOWN TO BE FREE OF ACM, CONTACT THE ASBESTOS COORDINATOR FOR CONSULTATION.

JURAVINSKI SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS: LEVEL B SECTION 'E' AND 'H' ACM WALLS

SCALE: N.T.S.	DEPARTMENT: ENGINEERING
DRAWN BY: GEOFF SCHWARZ	SUPERVISOR: GEOFF SCHWARZ
DRAWING NO.:	FILE NAME: 1720030 RA-01 Floor Level B Juravinski

EH-RA-01B

SHEET SIZE = ARCH 'D' - 24" x 36" (610mm x 914mm)



H

15 WING
CONSTRUCTED
1990
RENOVATED
2010

L

TO 'L'
30 WING

M

TO 'M'
40 WING

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TO 'G'
60 WING

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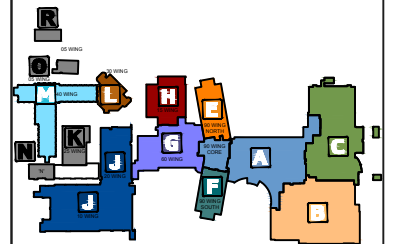
90 WING N
CONSTRUCTED
1962
RENOVATED
2012

F

TO 'F'
90 WING S

A

TO 'A'
90 WING CORE



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
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6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
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10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND:

	ACM PRESENT
	SUSPECT ACM
	NO ACM PRESENT
	ACM ABATED AREAS AS PER HHS RECORDS

GENERAL NOTES:

- DRAWINGS HAVE BEEN CONVERTED FROM A CONTRACTED SOURCE JANUARY 2013 AND WILL BE MAINTAINED BY HHS ENGINEERING STAFF.
- DRAWINGS SHALL BE READ IN CONJUNCTION WITH HHS ASBESTOS MANAGEMENT PLAN AND SURVEYS AVAILABLE ON THE HHS INTRANET, AND HARDCOPY IN THE SITES ENGINEERING DEPT. DRAWINGS TO BE VIEWED IN COLOR ONLY.
- AREAS WITHOUT A DESIGNATION OF ACM (ASBESTOS CONTAINING MATERIAL) SHALL BE TREATED AS ACM UNTIL PROVEN OTHERWISE.
- PRIOR TO UNDERTAKING ANY REPAIR RENOVATION OR DEMOLITION, REVIEW THE AMP (ASBESTOS MANAGEMENT PLAN) AND SURVEY PRIOR TO COMMENCEMENT OF WORK.
- IF YOU SUSPECT A MATERIAL TO BE ACM IN AN AREA SHOWN TO BE FREE OF ACM, CONTACT THE ASBESTOS COORDINATOR FOR CONSULTATION.
- AREAS DENOTED AS "SUSPECT MATERIAL" SHOULD BE PRESUMED TO CONTAIN ASBESTOS IN THE ABSENCE OF ADDITIONAL SAMPLING THAT PROVES OTHERWISE.

JURAVINSKI SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING:
LEVEL B SECTION 'E' AND 'H' ACM CEILING

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 17/2013030 RA-01 Floor Level B Juravinski
DRAWING No.	

EH-RA01C

H
15 WING
CONSTRUCTED
1990
RENOVATED
2010

L
TO 'L'
30 WING

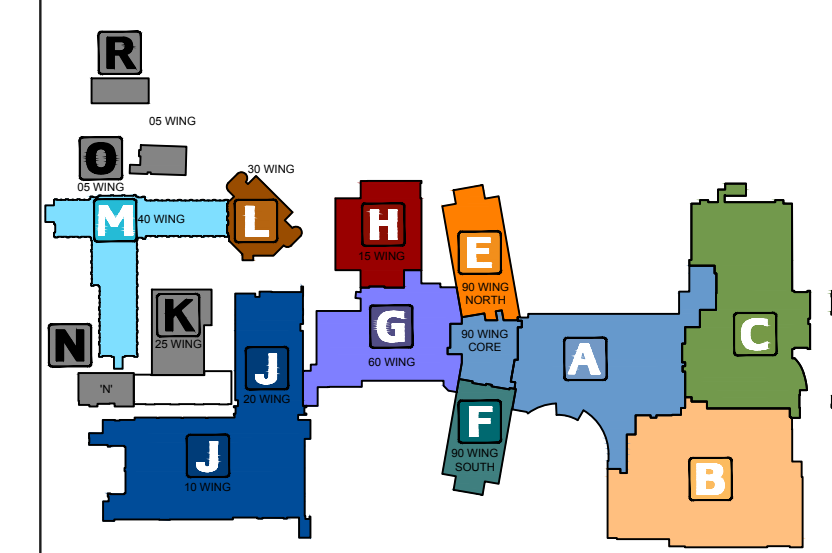
M
TO 'M'
40 WING

G
TO 'G'
60 WING

E
90 WING N
CONSTRUCTED
1962
RENOVATED
2012

F
TO 'F'
90 WING S

A
TO 'A'
90 WING CORE



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
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6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND - OTHER

PI	ACM PIPE INSULATION
DI	ACM DUCT INSULATION
MI	ACM MECHANICAL INSULATION
T1	TYPE 1 ENTRY
T2	TYPE 2 ENTRY
T3	TYPE 3 ENTRY
TF	ACM TEXTURE FINISH
FS	ACM FIRESTOPPING
T	TRANSITE
NAR	NO ACCESS TO ROOM/AREA

GENERAL NOTES:

- DRAWINGS HAVE BEEN CONVERTED FROM A CONTRACTED SOURCE JANUARY 2013 AND WILL BE MAINTAINED BY HHS ENGINEERING STAFF.
- DRAWINGS SHALL BE READ IN CONJUNCTION WITH HHS ASBESTOS MANAGEMENT PLAN AND SURVEYS AVAILABLE ON THE HHS INTRANET, AND HARDCOPY IN THE SITES ENGINEERING DEPT.
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- IF YOU SUSPECT A MATERIAL TO BE ACM IN AN AREA SHOWN TO BE FREE OF ACM, CONTACT THE ASBESTOS COORDINATOR FOR CONSULTATION.

JURAVINSKI SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY	
DRAWING: LEVEL B SECTION 'E' AND 'H' ACM OTHER	
PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 1926030 RA-01 Floor Level B Juravinski
DRAWING No.	

EH-RA-01D



H

15 WING
CONSTRUCTED
1990
RENOVATED
2010

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TO 'L'
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20 WING

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10 WING

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TO 'G'
60 WING

E

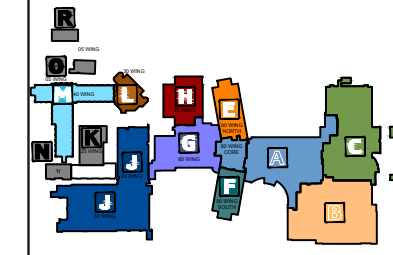
90 WING N
CONSTRUCTED
1962
RENOVATED
2012

F

TO 'F'
90 WING S

A

TO 'A'
90 WING CORE



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	2/1/2013		UPDATED	GS
2	3/1/2013		UPDATED	GS
3	4/1/2013		REVIEWED WITHOUT REVISION	GS
4	5/1/2013		REVIEWED WITHOUT REVISION	GS
5	6/1/2013		REVIEWED WITHOUT REVISION	GS
6	7/1/2013		REVIEWED WITHOUT REVISION	GS
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8	9/1/2013		REVIEWED WITHOUT REVISION	GS
9	10/1/2013		REVIEWED WITHOUT REVISION	GS
10	11/1/2013		REVIEWED WITHOUT REVISION	GS
11	3/31/2016		UPDATED BY ECOH	MM
12	6/15/2017		UPDATED BY ECOH	JK
13	11/2/2018		UPDATED BY PINCHN LIMITED	JB

- LEGEND:**
- ACM VINYL FLOOR TILES
 - ACM VINYL SHEET FLOORING
 - NO ACCESS TO ROOM/AREA
 - ACM FREE OR ABATED AREAS AS PER HHS RECORDS

GENERAL NOTES:

1. DRAWINGS HAVE BEEN CONVERTED FROM A CONTRACTED SOURCE JANUARY 2013 AND WILL BE MAINTAINED BY HHS ENGINEERING STAFF.
2. DRAWINGS SHALL BE READ IN CONJUNCTION WITH HHS ASBESTOS MANAGEMENT PLAN AND SURVEYS AVAILABLE ON THE HHS INTRANET, AND HARDCOPY IN THE SITES ENGINEERING DEPT.
3. AREAS WITHOUT A DESIGNATION OF ACM (ASBESTOS CONTAINING MATERIAL) SHALL BE TREATED AS ACM UNTIL PROVEN OTHERWISE. PRIOR TO UNDERTAKING ANY REPAIR RENOVATION OR DEMOLITION, REVIEW THE AMP (ASBESTOS MANAGEMENT PLAN) AND SURVEY PRIOR TO COMMENCEMENT OF WORK.
4. IF YOU SUSPECT A MATERIAL TO BE ACM IN AN AREA SHOWN TO BE FREE OF ACM, CONTACT THE ASBESTOS COORDINATOR FOR CONSULTATION.

JURAVINSKI SITE



PROJECT:
JURAVINSKI HOSPITAL AND
CANCER CENTER - ASBESTOS
MANAGEMENT PLAN AND SURVEY

DRAWING:

LEVEL 0	DEPARTMENT:
SECTION 'E' AND 'H'	HAZARDOUS MATERIALS
ACM ON FLOOR	SUPERVISOR:
	MICHAEL MAIORANA
PLOT DATE:	FILE NAME:
NOVEMBER 2018	11/20/2018 RA-02 Floor
SCALE:	DRAWING NO.:
N.T.S.	Level 0 Juravinski
DRAWN BY:	
JORDAN BOULOS	

EH-RA-02A

SHEET SIZE = ARCH 'D' - 24" x 36" (610mm x 914mm) - 610mm x 914mm (A2/METRIC)



H
15 WING
CONSTRUCTED
1990
RENOVATED
2010

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90 WING N
CONSTRUCTED
1962
RENOVATED
2012

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TO 'L'
30 WING

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40 WING

J

TO 'J'
20 WING

J

TO 'J'
10 WING

G

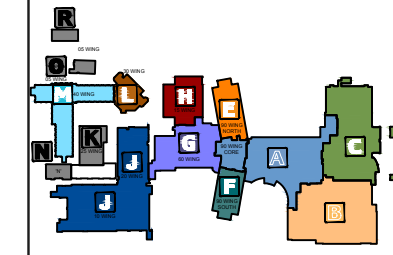
TO 'G'
60 WING

F

TO 'F'
90 WING S

A

TO 'A'
90 WING CORE



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
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2	3/1/2013		UPDATED	GS
3	4/1/2013		REVIEWED WITHOUT REVISION	GS
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9	10/1/2013		REVIEWED WITHOUT REVISION	GS
10	11/1/2013		REVIEWED WITHOUT REVISION	GS
11	3/31/2016		UPDATED BY ECOH	MM
12	6/15/2017		UPDATED BY ECOH	JK
13	11/2/2018		UPDATED BY PINCHN LIMITED	JB

- LEGEND:
- ACM PRESENT
 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

- GENERAL NOTES:
- DRAWINGS HAVE BEEN CONVERTED FROM A CONTRACTED SOURCE JANUARY 2013 AND WILL BE MAINTAINED BY HHS ENGINEERING STAFF.
 - DRAWINGS SHALL BE READ IN CONJUNCTION WITH HHS ASBESTOS MANAGEMENT PLAN AND SURVEYS AVAILABLE ON THE HHS INTRANET, AND HARDCOPY IN THE SITES ENGINEERING DEPT.
 - AREAS WITHOUT A DESIGNATION OF ACM (ASBESTOS CONTAINING MATERIAL) SHALL BE TREATED AS ACM UNTIL PROVEN OTHERWISE. PRIOR TO UNDERTAKING ANY REPAIR RENOVATION OR DEMOLITION, REVIEW THE AMP (ASBESTOS MANAGEMENT PLAN) AND SURVEY PRIOR TO COMMENCEMENT OF WORK.
 - IF YOU SUSPECT A MATERIAL TO BE ACM IN AN AREA SHOWN TO BE FREE OF ACM, CONTACT THE ASBESTOS COORDINATOR FOR CONSULTATION.

JURAVINSKI SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING:
LEVEL 0 SECTION 'E' AND 'H' ACM WALLS

PLOT DATE: NOVEMBER 2018	DEPARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 1720030 RA-02 Floor Level 0 Juravinski
DRAWING NO.:	

EH-RA-02B



H
15 WING
CONSTRUCTED
1990
RENOVATED
2010

L
TO 'L'
30 WING

M
TO 'M'
40 WING

J
TO 'J'
20 WING

J
TO 'J'
10 WING

G
TO 'G'
60 WING

E
90 WING N
CONSTRUCTED
1962
RENOVATED
2012

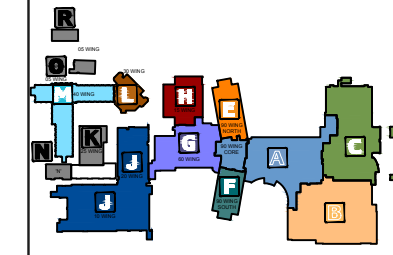
F
TO 'F'
90 WING S

A
TO 'A'
90 WING CORE

E-WING
ACM Rough Plaster Ceiling in
Stairwell

Non-ACM Plaster, DJC & CT
on Ceiling

- GENERAL NOTES:
1. DRAWINGS HAVE BEEN CONVERTED FROM A CONTRACTED SOURCE JANUARY 2013 AND WILL BE MAINTAINED BY HHS ENGINEERING STAFF.
 2. DRAWINGS SHALL BE READ IN CONJUNCTION WITH HHS ASBESTOS MANAGEMENT PLAN AND SURVEYS AVAILABLE ON THE HHS INTRANET, AND HARDCOPY IN THE SITES ENGINEERING DEPT. DRAWINGS TO BE VIEWED IN COLOR ONLY.
 3. AREAS WITHOUT A DESIGNATION OF ACM (ASBESTOS CONTAINING MATERIAL) SHALL BE TREATED AS ACM UNTIL PROVEN OTHERWISE.
 4. PRIOR TO UNDERTAKING ANY REPAIR RENOVATION OR DEMOLITION, REVIEW THE AMP (ASBESTOS MANAGEMENT PLAN) AND SURVEY PRIOR TO COMMENCEMENT OF WORK.
 5. IF YOU SUSPECT A MATERIAL TO BE ACM IN AN AREA SHOWN TO BE FREE OF ACM, CONTACT THE ASBESTOS COORDINATOR FOR CONSULTATION.
 6. AREAS DENOTED AS "SUSPECT MATERIAL" SHOULD BE PRESUMED TO CONTAIN ASBESTOS IN THE ABSENCE OF ADDITIONAL SAMPLING THAT PROVES OTHERWISE.



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	2/1/2013		UPDATED	GS
2	3/1/2013		UPDATED	GS
3	4/1/2013		REVIEWED WITHOUT REVISION	GS
4	5/1/2013		REVIEWED WITHOUT REVISION	GS
5	6/1/2013		REVIEWED WITHOUT REVISION	GS
6	7/1/2013		REVIEWED WITHOUT REVISION	GS
7	8/1/2013		REVIEWED WITHOUT REVISION	GS
8	9/1/2013		REVIEWED WITHOUT REVISION	GS
9	10/1/2013		REVIEWED WITHOUT REVISION	GS
10	11/1/2013		REVIEWED WITHOUT REVISION	GS
11	3/31/2016		UPDATED BY ECOH	MM
12	6/15/2017		UPDATED BY ECOH	JK
13	11/2/2018		UPDATED BY PINCHN LIMITED	JB

- LEGEND:
- ACM ROUGH PLASTER CEILING
 - ACM PRESUMED
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

JURAVINSKI SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING:
LEVEL 0 SECTION 'E' AND 'H' ACM CEILING

PLANT DATE: NOVEMBER 2018	DEPARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAIORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 1720030 RA-02 Floor Level 0 Juravinski
DRAWING NO.	

EH-RA02C

SHEET SIZE = ARCH 'D' - 24" x 36" (610mm x 914mm) - 610mm x 914mm (NETING)



H
15 WING
CONSTRUCTED
1990
RENOVATED
2010

E
90 WING N
CONSTRUCTED
1962
RENOVATED
2012

F
TO 'F'
90 WING S

A
TO 'A'
90 WING CORE

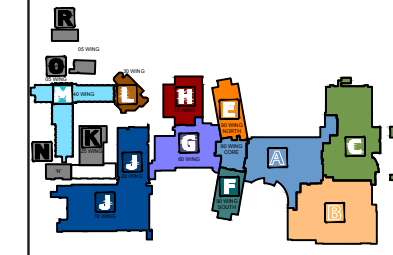
G
TO 'G'
60 WING

L
TO 'L'
30 WING

M
TO 'M'
40 WING

J
TO 'J'
20 WING

J
TO 'J'
10 WING



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	2/1/2013		UPDATED	GS
2	3/1/2013		UPDATED	GS
3	4/1/2013		REVIEWED WITHOUT REVISION	GS
4	5/1/2013		REVIEWED WITHOUT REVISION	GS
5	6/1/2013		REVIEWED WITHOUT REVISION	GS
6	7/1/2013		REVIEWED WITHOUT REVISION	GS
7	8/1/2013		REVIEWED WITHOUT REVISION	GS
8	9/1/2013		REVIEWED WITHOUT REVISION	GS
9	10/1/2013		REVIEWED WITHOUT REVISION	GS
10	11/1/2013		REVIEWED WITHOUT REVISION	GS
11	3/31/2016		UPDATED BY ECOH	MM
12	6/15/2017		UPDATED BY ECOH	JK
13	11/2/2018		UPDATED BY PINCHN LIMITED	JB

LEGEND - OTHER

PI	ACM PIPE INSULATION
DI	ACM DUCT INSULATION
MI	ACM MECHANICAL INSULATION
T1	TYPE 1 ENTRY
T2	TYPE 2 ENTRY
T3	TYPE 3 ENTRY
TF	ACM TEXTURE FINISH
FS	ACM FIRESTOPPING
T	TRANSITE
NAR	NO ACCESS TO ROOM/AREA

GENERAL NOTES:

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JURAVINSKI SITE



PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS:

LEVEL 0	SECTION 'E' AND 'H'	ACM OTHER
PLOT DATE: NOVEMBER 2018	DEPARTMENT: HAZARDOUS MATERIALS	
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAIORANA	
DRAWN BY: JORDAN BOULOS	FILE NAME: 17202030 RA-02 Floor Level 0 Juravinski	
DRAWING NO.		

EH-RA-02D



H
15 WING
CONSTRUCTED
1999

E
90 WING N
CONSTRUCTED
1962

L
TO 'L'
30 WING

M
TO 'M'
40 WING

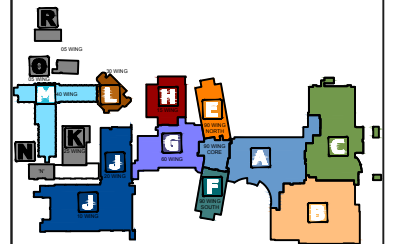
J
TO 'J'
20 WING

J
TO 'J'
10 WING

G
TO 'G'
60 WING

F
TO 'F'
90 WING S

A
TO 'A'
90 WING CORE



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:
- ACM VINYL FLOOR TILES
 - ACM VINYL SHEET FLOORING
 - NO ACCESS TO ROOM/AREA
 - ACM FREE OR ABATED AREAS AS PER HHS RECORDS

GENERAL NOTES:

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JURAVINSKI SITE



PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING:
LEVEL 1 SECTION 'E' AND 'H' ACM ON FLOOR

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 17420030 RA-03 Floor Level 1 Juravinski
DRAWING No.	

EH-RA-03A



TO 'L'
30 WING



TO 'M'
40 WING



TO 'J'
20 WING



TO 'J'
10 WING



TO 'G'
60 WING



TO 'F'
90 WING S



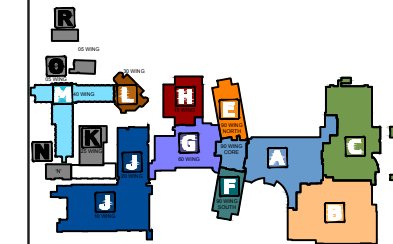
TO 'A'
90 WING CORE



90 WING N
CONSTRUCTED
1962



15 WING
CONSTRUCTED
1999



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:**
- ACM PRESENT
 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

- GENERAL NOTES:**
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JURAVINSKI SITE

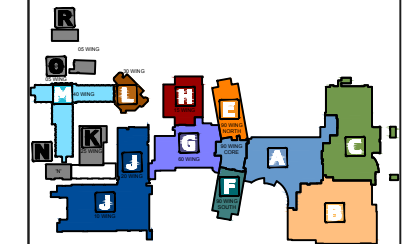


PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS:
LEVEL 1 SECTION 'E' AND 'H' ACM WALLS

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 1720030 RA-03 Floor Level 1 Juravinski
DRAWING No.	

EH-RA-03B



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:**
- ACM ROUGH PLASTER CEILING
 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

L
TO 'L'
30 WING

M
TO 'M'
40 WING

J
TO 'J'
20 WING

J
TO 'J'
10 WING

E
90 WING N
CONSTRUCTED
1962

G
TO 'G'
60 WING

F
TO 'F'
90 WING S

A
TO 'A'
90 WING CORE

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JURAVINSKI SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING: LEVEL 1 SECTION 'E' AND 'H' ACM CEILING

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 17420030 RA-03 Floor Level 1 Juravinski
DRAWING No.	

EH-RA03C



H
15 WING
CONSTRUCTED
1990

E
90 WING N
CONSTRUCTED
1962

G
TO 'G'
60 WING

F
TO 'F'
90 WING S

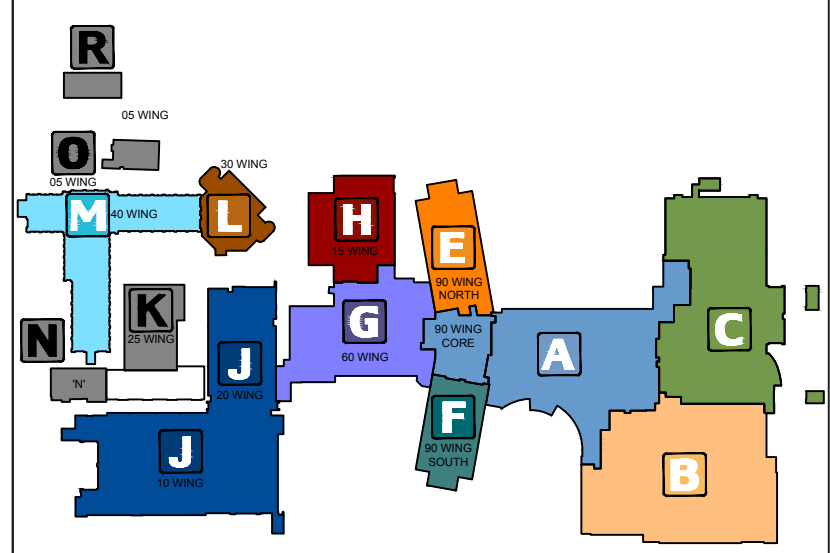
A
TO 'A'
90 WING CORE

L
TO 'L'
30 WING

M
TO 'M'
40 WING

J
TO 'J'
20 WING

J
TO 'J'
10 WING



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND - OTHER

PI	ACM PIPE INSULATION
DI	ACM DUCT INSULATION
MI	ACM MECHANICAL INSULATION
T1	TYPE 1 ENTRY
T2	TYPE 2 ENTRY
T3	TYPE 3 ENTRY
TF	ACM TEXTURE FINISH
FS	ACM FIRESTOPPING
T	TRANSITE
NAR	NO ACCESS TO ROOM/AREA

GENERAL NOTES:

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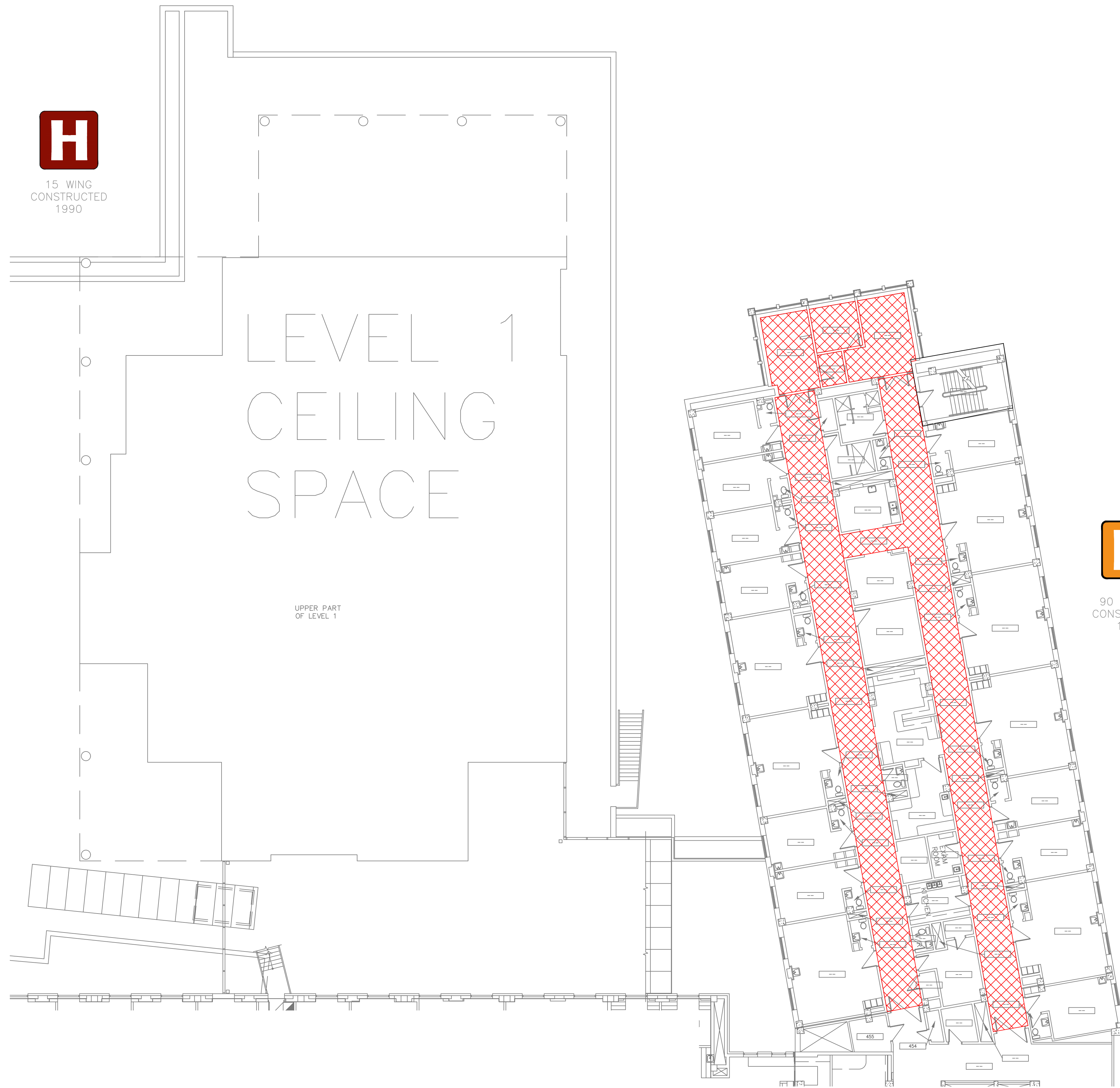
JURAVINSKI SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY	
DRAWING: LEVEL 1 SECTION 'E' AND 'H' ACM OTHER	
PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE #: 1425030 RA-03 Floor Level 1 Juravinski
DRAWING No.:	

EH-RA-03D

SHEET SIZE = ARCH 'D' - 24" x 36" (MPSB4) - 610mm x 914mm (METRIC)



15 WING
CONSTRUCTED
1990

LEVEL 1
CEILING
SPACE

UPPER PART
OF LEVEL 1



90 WING N
CONSTRUCTED
1962



TO 'G'
60 WING



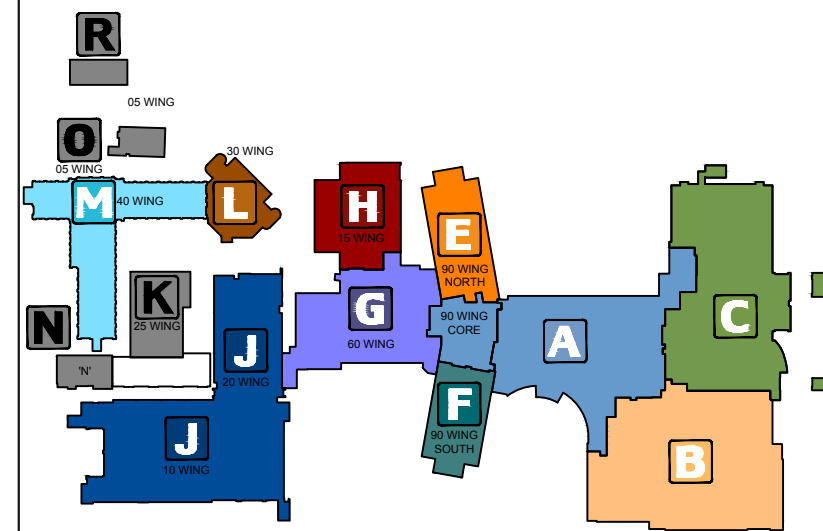
TO 'F'
90 WING S



TO 'A'
90 WING CORE

GENERAL NOTES:

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KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
LEGEND 2015				REVISED BY PINCHIN LTD.

- ACM VINYL FLOOR TILES
- ACM VINYL SHEET FLOORING
- NO ACCESS TO ROOM/AREA
- ACM FREE OR ABATED AREAS AS PER HHS RECORDS

JURAVINSKI
SITE

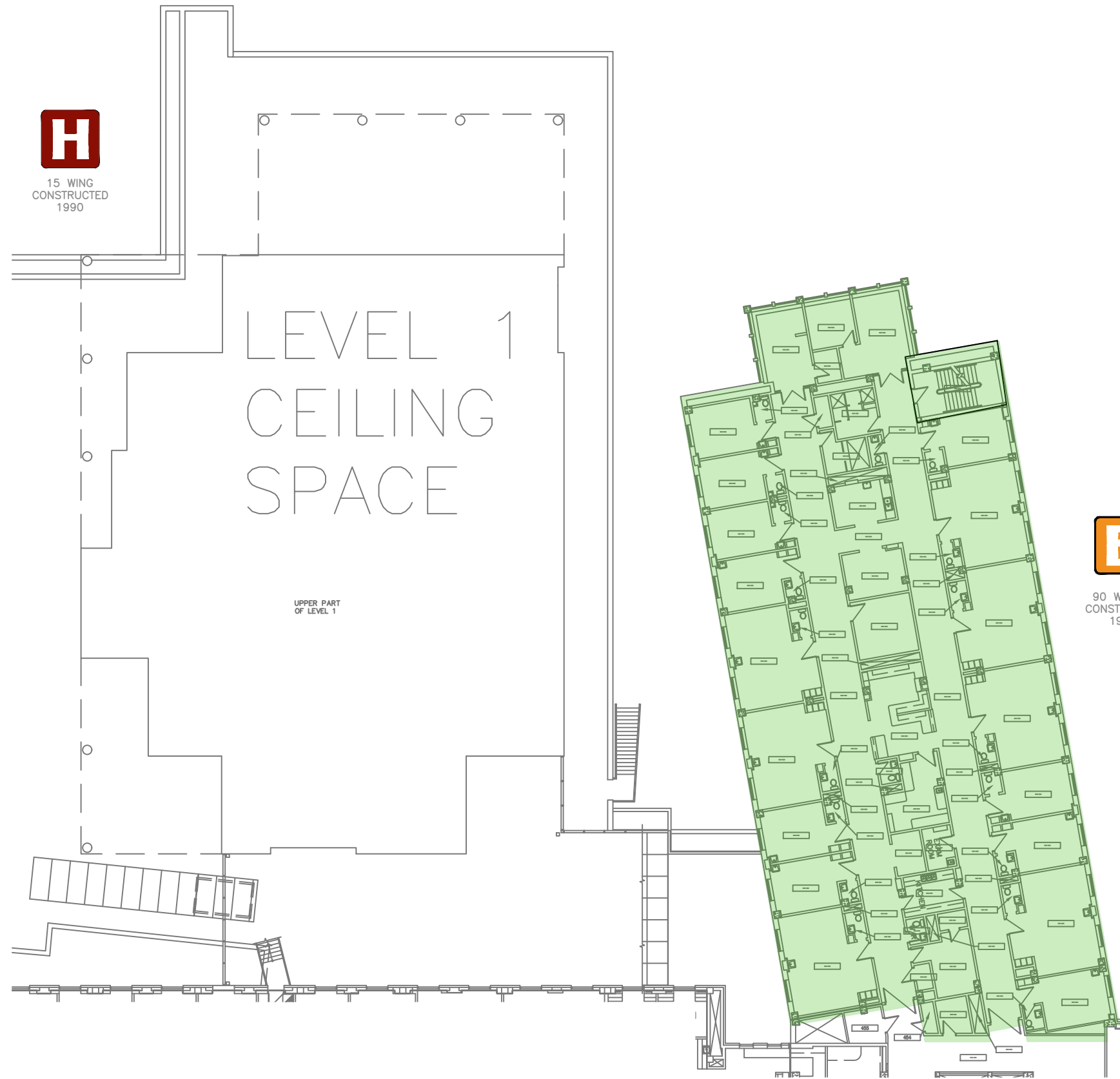


PROJECT:
JURAVINSKI HOSPITAL AND
CANCER CENTER - ASBESTOS
MANAGEMENT PLAN AND SURVEY

DRAWING:
LEVEL 2
SECTION 'E' AND 'H'
ACM ON FLOOR

PLOT DATE: _____ DEPARTMENT:
ENGINEERING
SCALE: N.T.S. SUPERVISOR:
GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ FILE NO: 2013030 RA-04 Floor
Level 2 Juravinski
DRAWING No. _____

EH-RA-04A



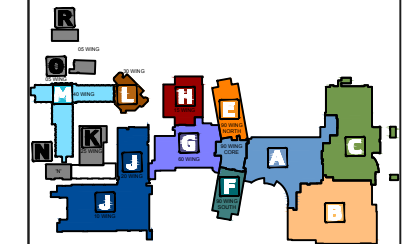
H
15 WING
CONSTRUCTED
1990

E
90 WING N
CONSTRUCTED
1962

G
TO 'G'
60 WING

F
TO 'F'
90 WING S

A
TO 'A'
90 WING CORE



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
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8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:
- ACM PRESENT
 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

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 - IF YOU SUSPECT A MATERIAL TO BE ACM IN AN AREA SHOWN TO BE FREE OF ACM, CONTACT THE ASBESTOS COORDINATOR FOR CONSULTATION.

JURAVINSKI SITE

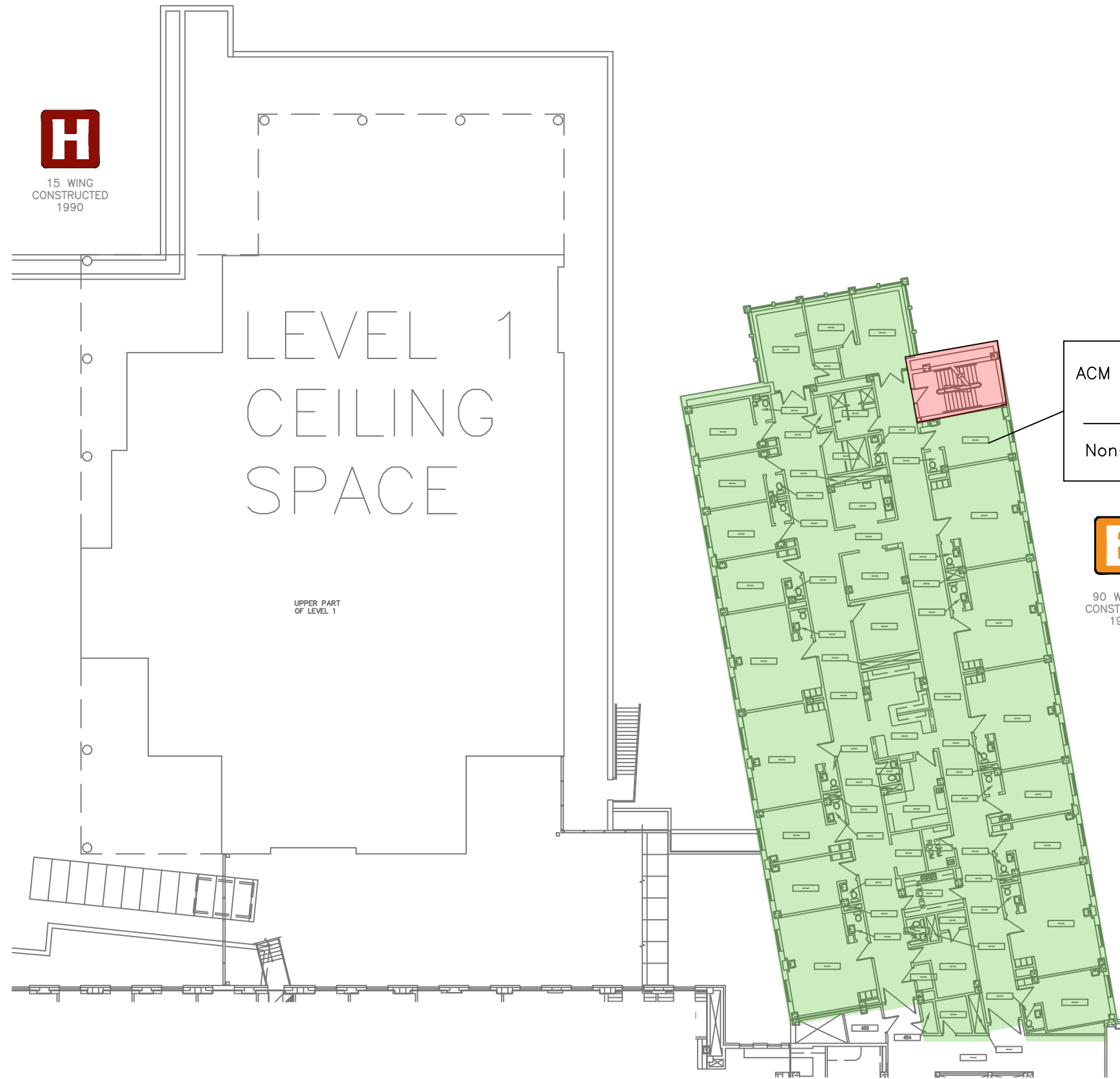


PROJECT:
JURAVINSKI HOSPITAL AND
CANCER CENTER - ASBESTOS
MANAGEMENT PLAN AND SURVEY

DRAWINGS:
LEVEL 2
SECTION 'E' AND 'H'
ACM WALLS

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 17/2013030 RA-04 Floor Level 2 Juravinski
DRAWING No.	

EH-RA-04B



H
15 WING
CONSTRUCTED
1990

LEVEL 1
CEILING
SPACE

UPPER PART
OF LEVEL 1

E-WING
ACM Rough Plaster Ceiling in
Stairwells

Non-ACM Plaster, DJC and
CT on Ceilings

E
90 WING N
CONSTRUCTED
1962

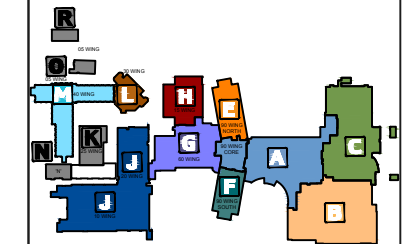
G
TO 'G'
60 WING

F
TO 'F'
90 WING S

A
TO 'A'
90 WING CORE

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KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
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4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
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9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:
- ACM ROUGH PLASTER CEILING
 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

JURAVINSKI SITE

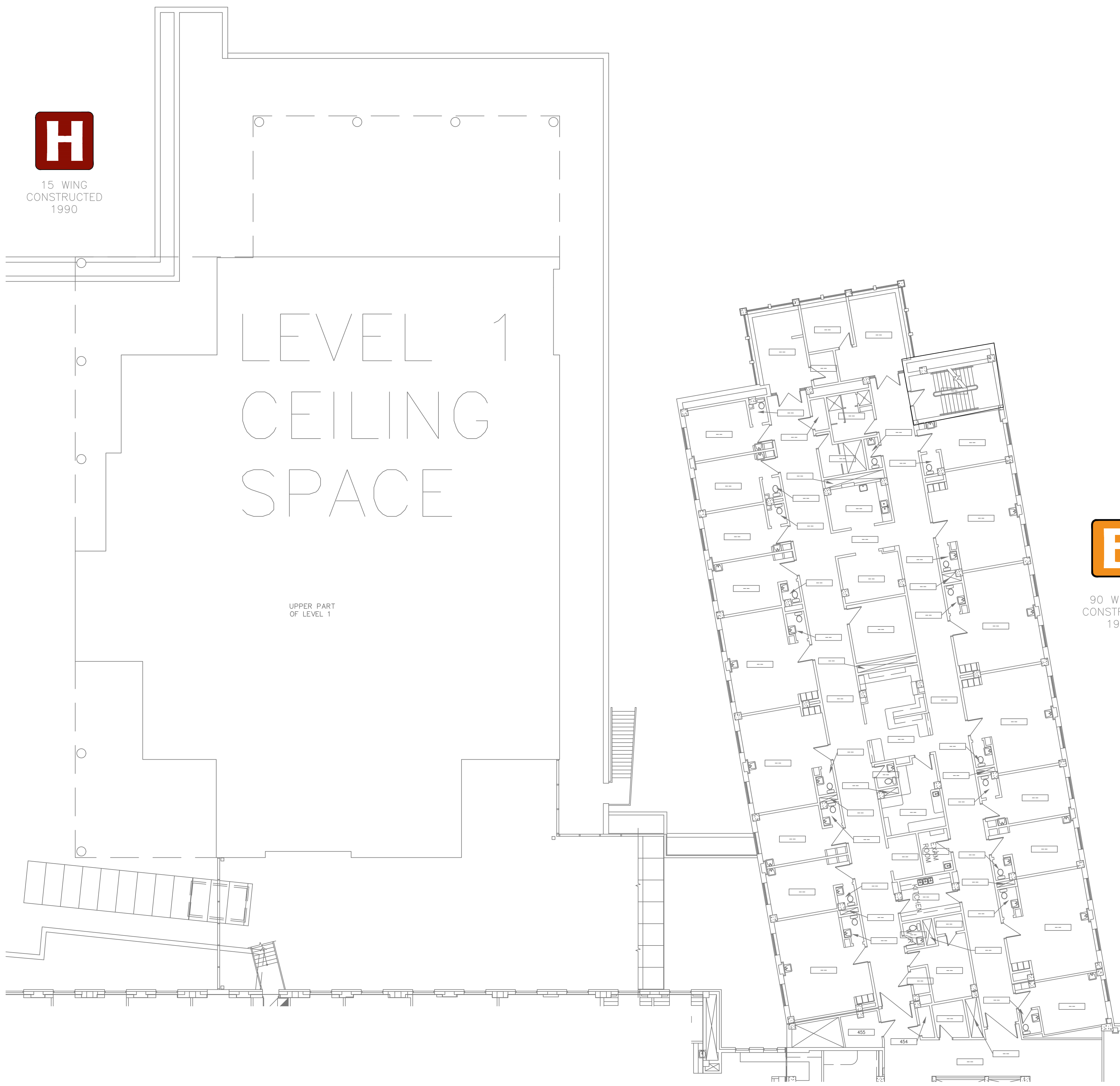


PROJECT:
JURAVINSKI HOSPITAL AND
CANCER CENTER - ASBESTOS
MANAGEMENT PLAN AND SURVEY

DRAWINGS:
LEVEL 2
SECTION 'E' AND 'H'
ACM CEILING

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 17/201303 RA-04 Floor Level 2 Juravinski
DRAWING No.	

EH-RA04C



15 WING
CONSTRUCTED
1990

LEVEL 1
CEILING
SPACE

UPPER PART
OF LEVEL 1



90 WING N
CONSTRUCTED
1962



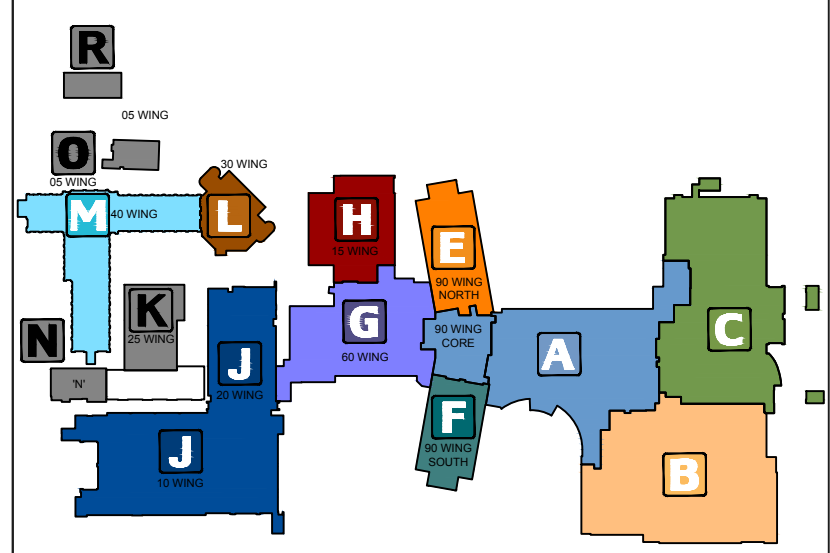
TO 'G'
60 WING



TO 'F'
90 WING S



TO 'A'
90 WING CORE



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
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4	4/1/2013		REVIEWED WITHOUT REVISION	GS
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9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND - OTHER

PI	ACM PIPE INSULATION
DI	ACM DUCT INSULATION
M	ACM MECHANICAL INSULATION
T1	TYPE 1 ENTRY
T2	TYPE 2 ENTRY
T3	TYPE 3 ENTRY
TF	ACM TEXTURE FINISH
FS	ACM FIRESTOPPING
T	TRANSITE
NAR	NO ACCESS TO ROOM/AREA

GENERAL NOTES:

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JURAVINSKI SITE



PROJECT:
JURAVINSKI HOSPITAL AND
CANCER CENTER - ASBESTOS
MANAGEMENT PLAN AND SURVEY

DRAWING:
LEVEL 2
SECTION 'E' AND 'H'
ACM OTHER

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE #: 21425030 RA-04 Floor Level 2 Juravinski
DRAWING No.	

EH-RA-04D



15 WING
CONSTRUCTED
1990



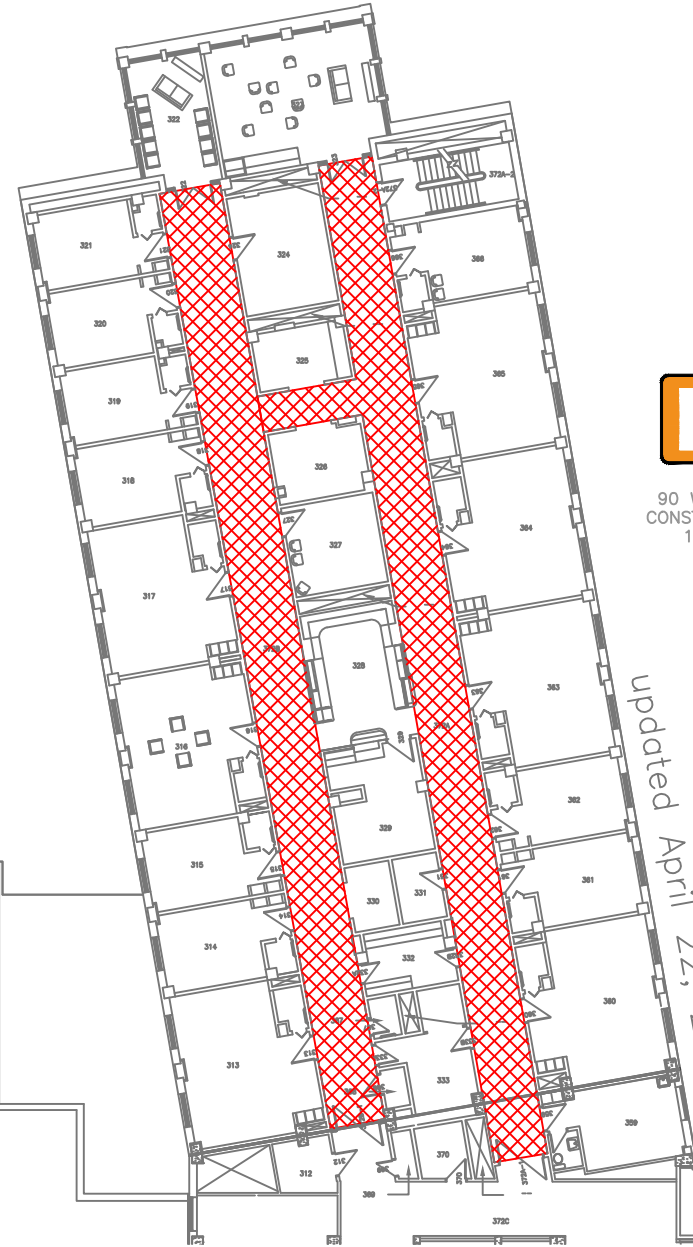
TO 'G'
60 WING



TO 'F'
90 WING S

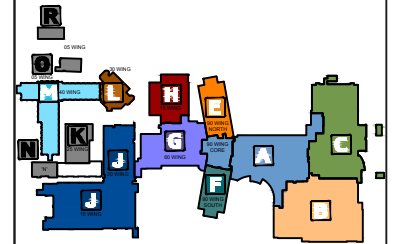


TO 'A'
90 WING CORE



90 WING N
CONSTRUCTED
1962

updated April 22, 2015



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
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2	2/1/2013		UPDATED	GS
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12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND:

- ACM VINYL FLOOR TILES
- ACM VINYL SHEET FLOORING
- NO ACCESS TO ROOM/AREA
- ACM FREE OR ABATED AREAS AS PER HHS RECORDS

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JURAVINSKI SITE



PROJECT:
JURAVINSKI HOSPITAL AND
CANCER CENTER - ASBESTOS
MANAGEMENT PLAN AND SURVEY

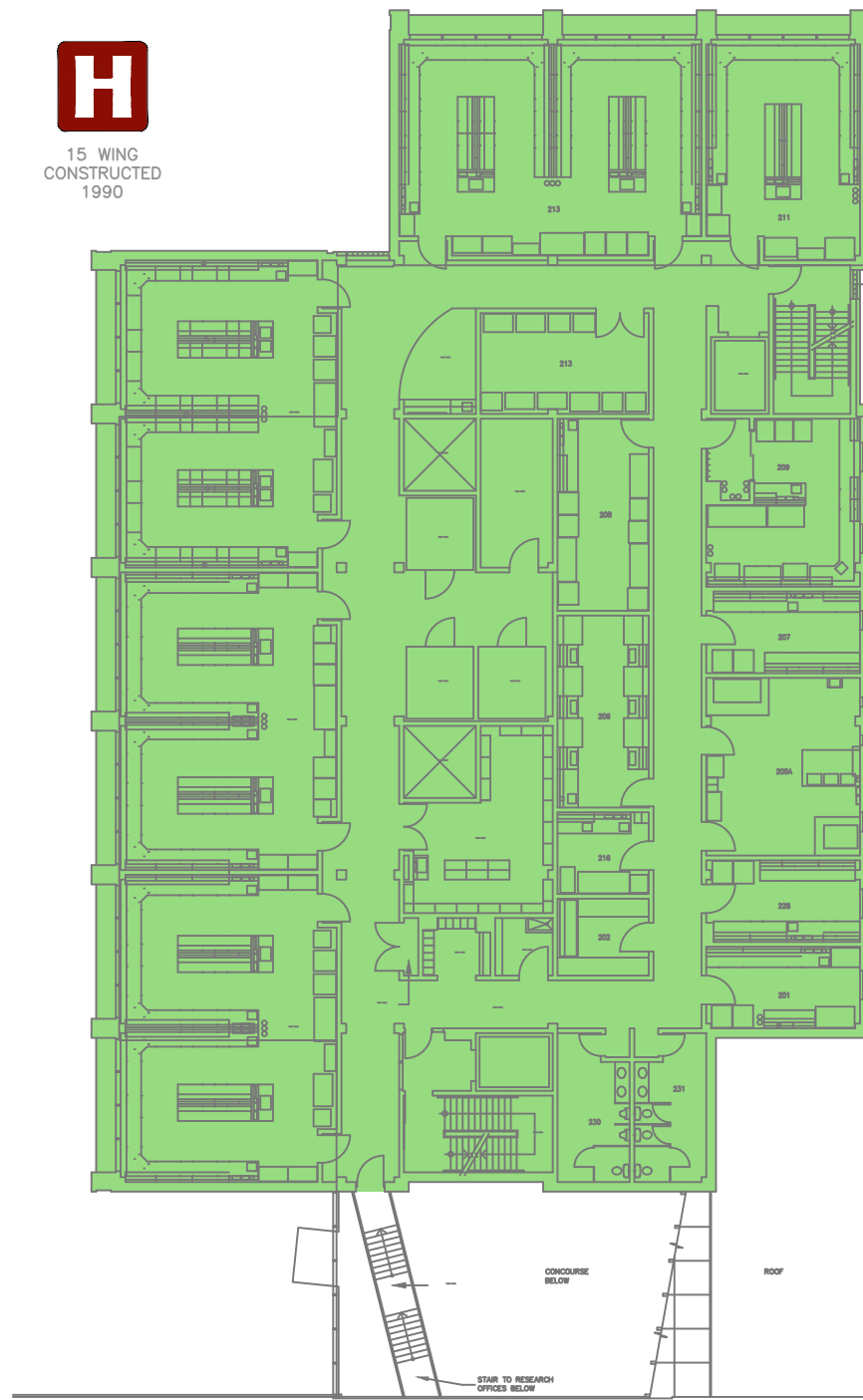
DRAWINGS:
LEVEL 3
SECTION 'E' AND 'H'
ACM ON FLOOR

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 1720030 RA-05 Floor Level 3 Juravinski
DRAWING No.	

EH-RA-05A



15 WING
CONSTRUCTED
1990



TO 'G'
60 WING



TO 'F'
90 WING S

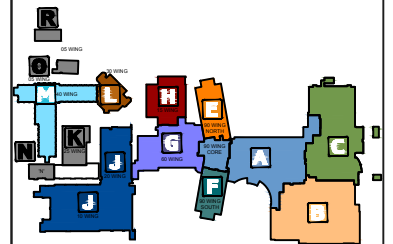


TO 'A'
90 WING CORE



90 WING N
CONSTRUCTED
1962

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- LEGEND:**
- ACM PRESENT
 - SUSPECT ACM
 - NO ACM PRESENT
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JURAVINSKI SITE



PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

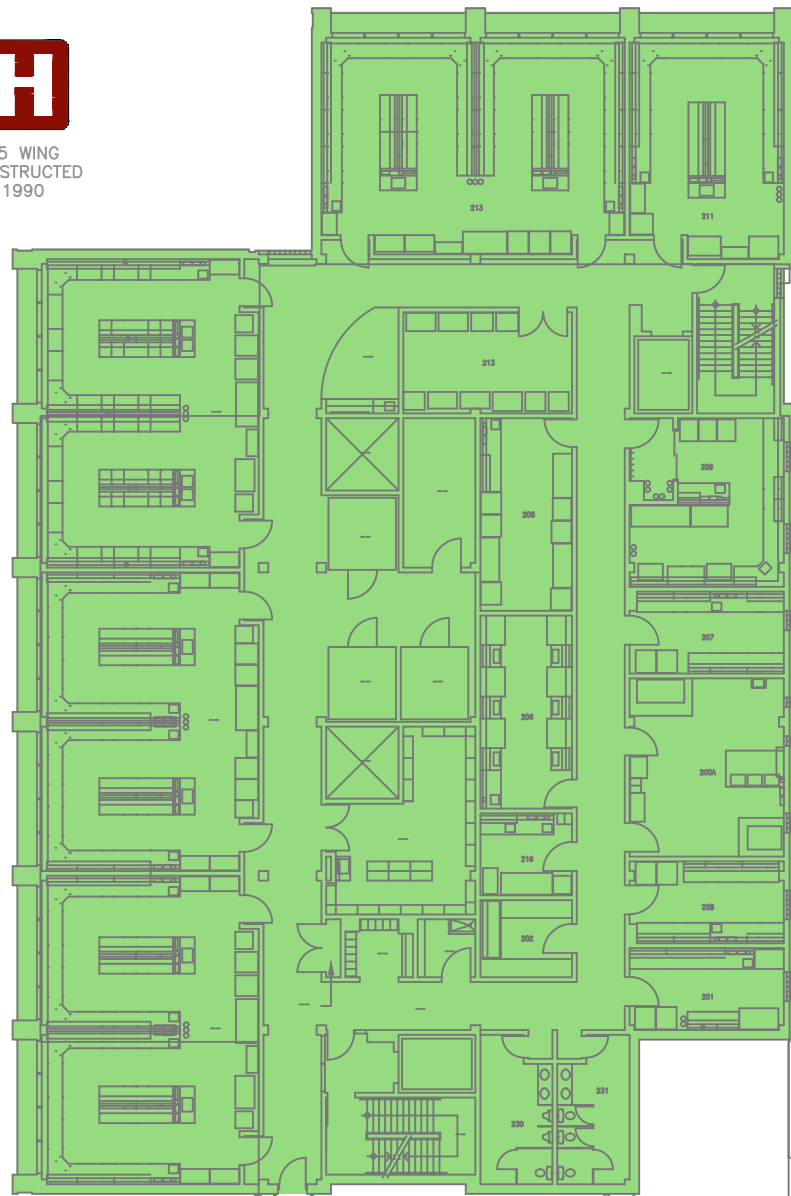
DRAWINGS:
LEVEL 3 SECTION 'E' AND 'H' ACM WALLS

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 1720030 RA-05 Floor Level 3 Juravinski
DRAWING No.	

EH-RA-05B



15 WING
CONSTRUCTED
1990



TO 'G'
60 WING



TO 'F'
90 WING S



TO 'A'
90 WING CORE



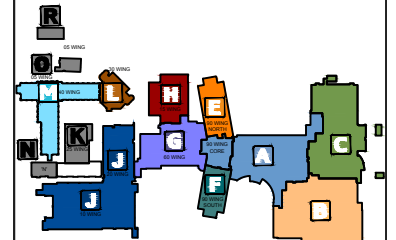
90 WING N
CONSTRUCTED
1962



updated April 22, 2015

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13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND:

- ACM ROUGH PLASTER CEILING
- SUSPECT ACM
- NO ACM PRESENT
- ACM ABATED AREAS AS PER HHS RECORDS

JURAVINSKI SITE



PROJECT:
JURAVINSKI HOSPITAL AND
CANCER CENTER - ASBESTOS
MANAGEMENT PLAN AND SURVEY

DRAWINGS:
LEVEL 3
SECTION 'E' AND 'H'
ACM CEILING

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 17420030 RA-05 Floor Level 3 Juravinski
DRAWING NO.	

EH-RA05C



15 WING
CONSTRUCTED
1990



TO 'G'
60 WING



TO 'F'
90 WING S



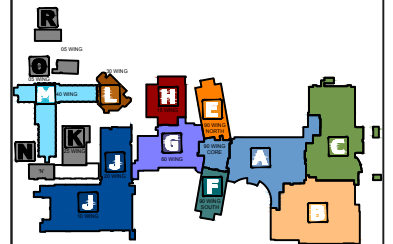
TO 'A'
90 WING CORE



90 WING N
CONSTRUCTED
1962



updated April 22, 2015



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
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13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND -- OTHER

PI	ACM PIPE INSULATION
DI	ACM DUCT INSULATION
MI	ACM MECHANICAL INSULATION
T1	TYPE 1 ENTRY
T2	TYPE 2 ENTRY
T3	TYPE 3 ENTRY
TF	ACM TEXTURE FINISH
FS	ACM FIRESTOPPING
T	TRANSITE
NAR	NO ACCESS TO ROOM/AREA

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JURAVINSKI SITE



PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

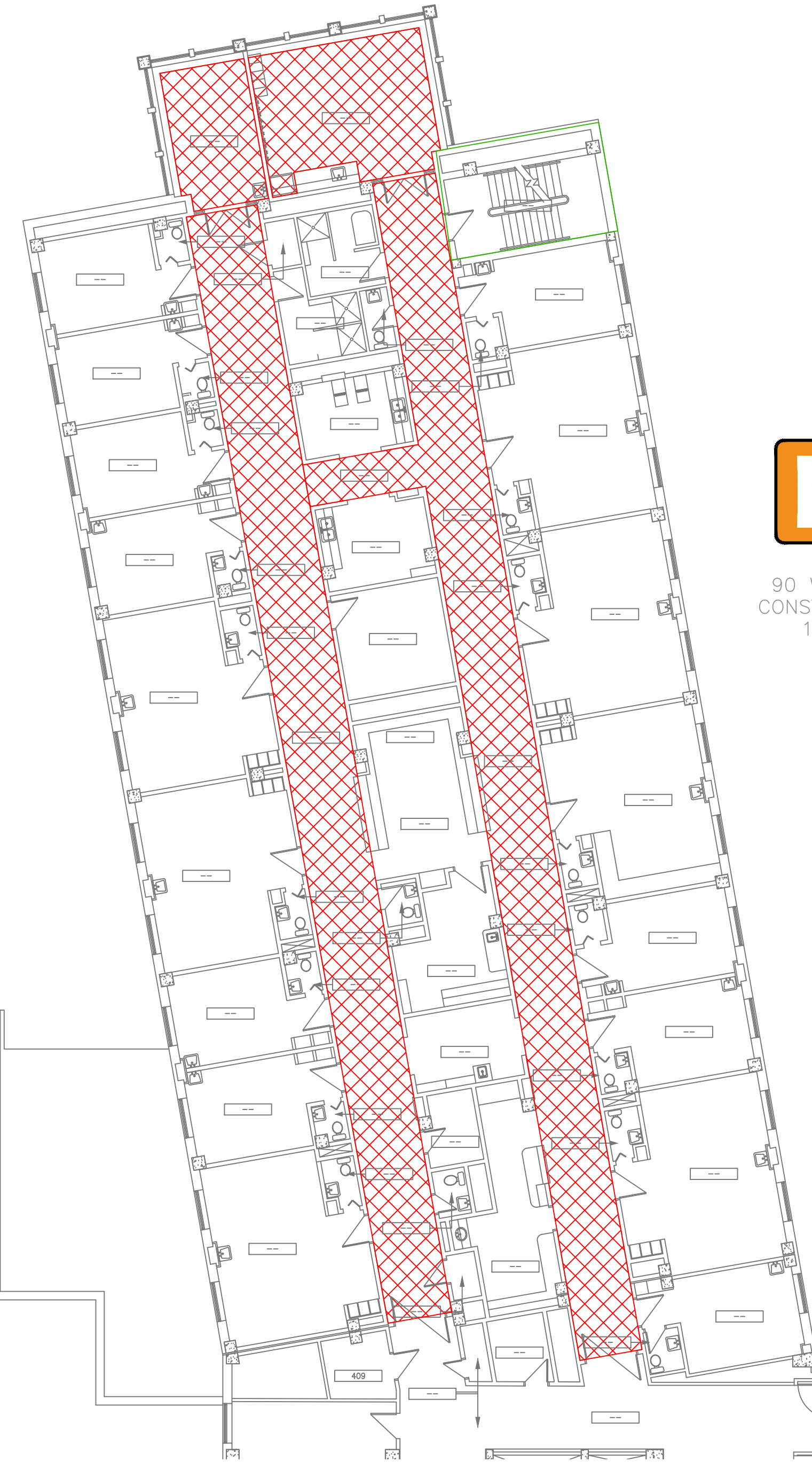
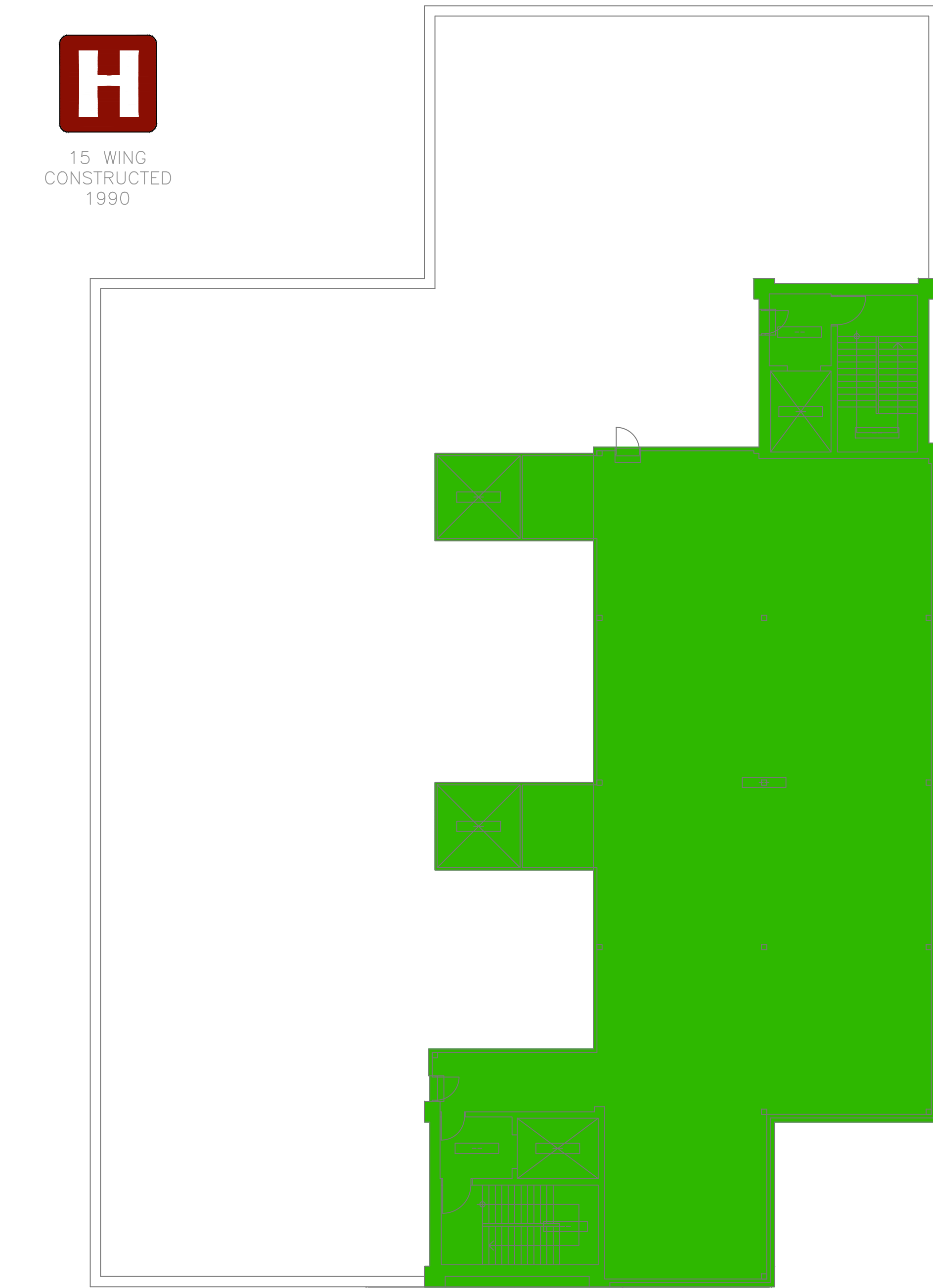
DRAWINGS:
LEVEL 3
SECTION 'E' AND 'H'
ACM OTHER

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 17420030 RA-05 Floor Level 3 Juravinski
DRAWING No.	

EH-RA-05D



15 WING
CONSTRUCTED
1990



90 WING N
CONSTRUCTED
1962



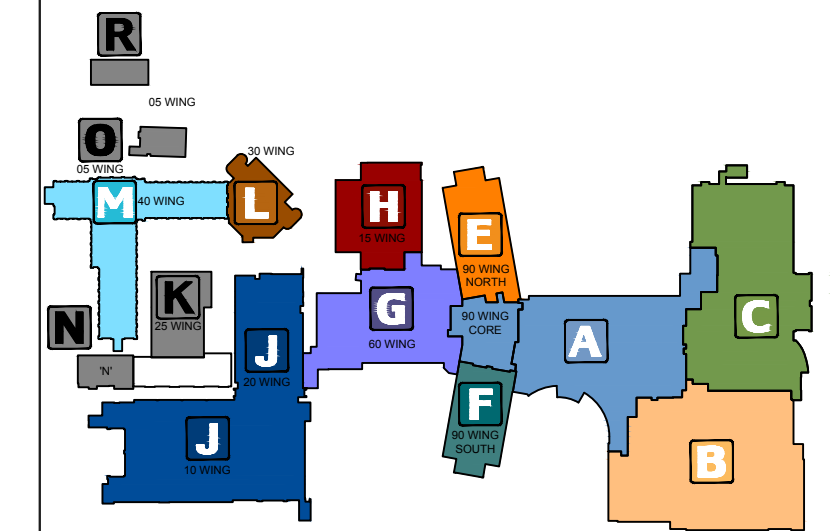
TO 'G'
60 WING



TO 'F'
90 WING S



TO 'A'
90 WING CORE



KEY PLAN

NO.	DATE	M/D/Y	REVISIONS	BY
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12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:
- ACM VINYL FLOOR TILES
 - ACM VINYL SHEET FLOORING
 - NO ACCESS TO ROOM/AREA
 - ACM FREE OR ABATED AREAS AS PER HHS RECORDS

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JURAVINSKI SITE

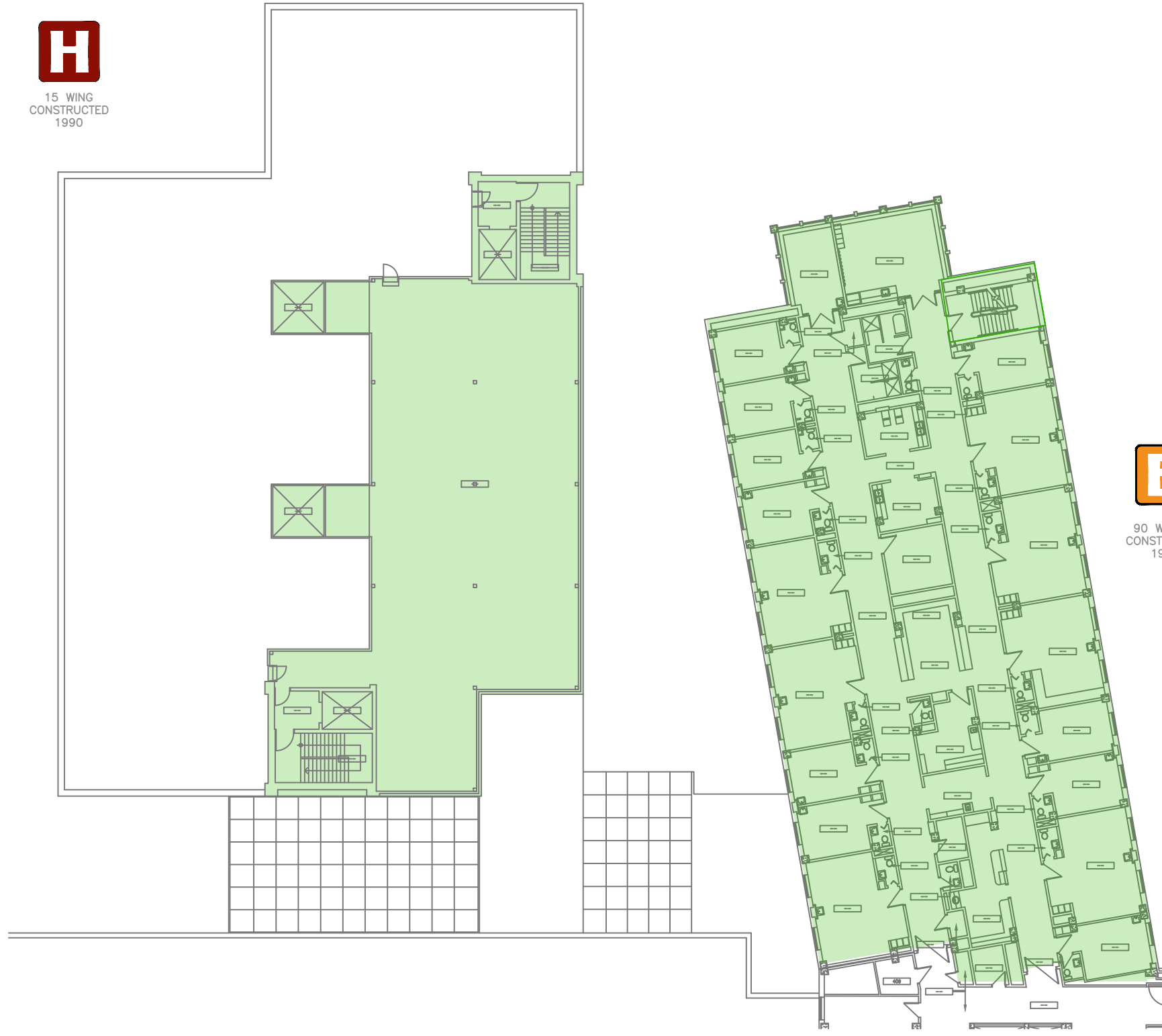
Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY	
DRAWING: LEVEL 4 SECTION 'E' AND 'H' ACM ON FLOOR	
PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NO: 21425030 RA-06 Floor Level 4 Juravinski
DRAWING No.	

EH-RA-06A

SHEET SIZE = ARCH 'D' - 24" x 36" (METERS) = 610mm x 914mm (METERS)

H
15 WING
CONSTRUCTED
1990

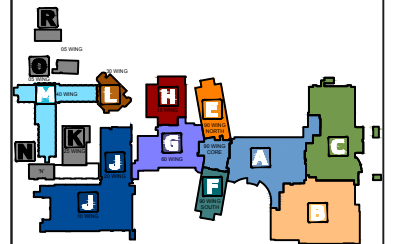


E
90 WING N
CONSTRUCTED
1962

G
TO 'G'
60 WING

F
TO 'F'
90 WING S

A
TO 'A'
90 WING CORE



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
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12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
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- LEGEND:**
- ACM PRESENT
 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

- GENERAL NOTES:**
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JURAVINSKI SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

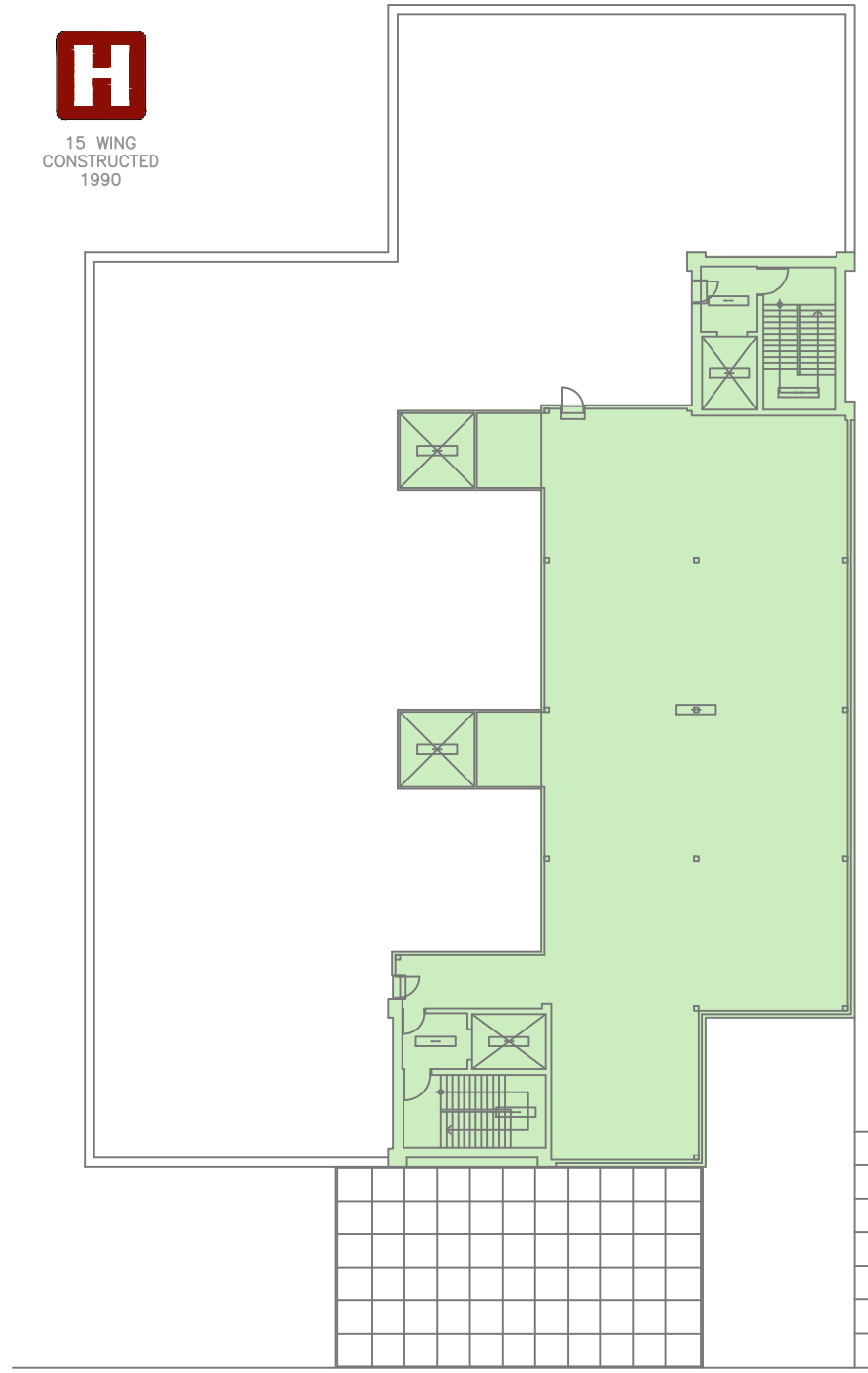
PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS: LEVEL 4 SECTION 'E' AND 'H' ACM WALLS

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 1/2013030 RA-06 Floor Level 4 Juravinski
DRAWING No.	

EH-RA-06B

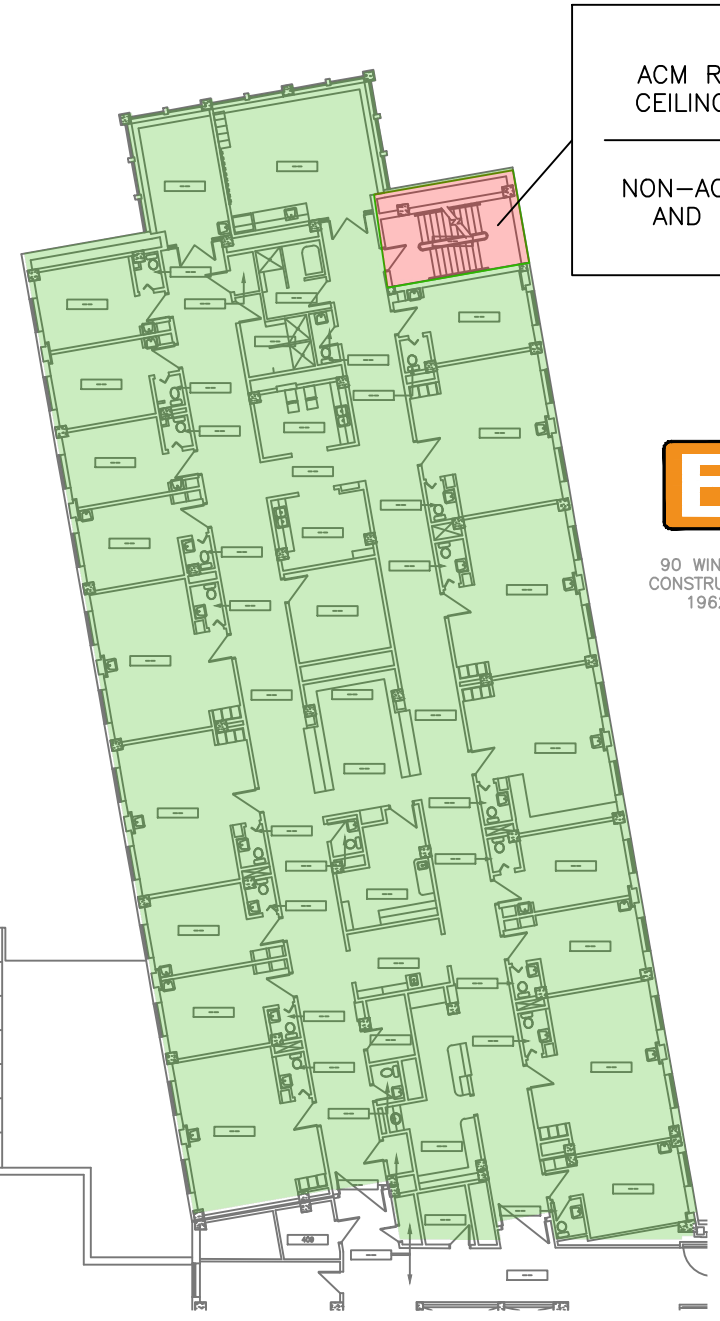
H
15 WING
CONSTRUCTED
1990



G
TO 'G'
60 WING

F
TO 'F'
90 WING S

A
TO 'A'
90 WING CORE



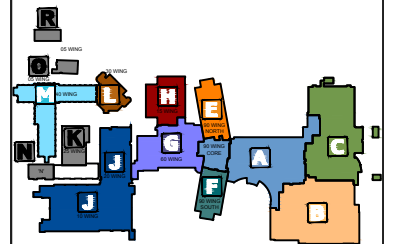
E-WING
ACM ROUGH PLASTER
CEILING IN STAIRWELL

NON-ACM PLASTER, DJC
AND CT ON CEILING

E
90 WING N
CONSTRUCTED
1962

GENERAL NOTES:

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KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:**
- ACM ROUGH PLASTER CEILING
 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

JURAVINSKI SITE



PROJECT:
JURAVINSKI HOSPITAL AND
CANCER CENTER - ASBESTOS
MANAGEMENT PLAN AND SURVEY

DRAWINGS:
LEVEL 4
SECTION 'E' AND 'H'
ACM CEILING

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 17420030 RA-06 Floor Level 4 Juravinski
DRAWING NO.	

EH-RA06C

H
15 WING
CONSTRUCTED
1990



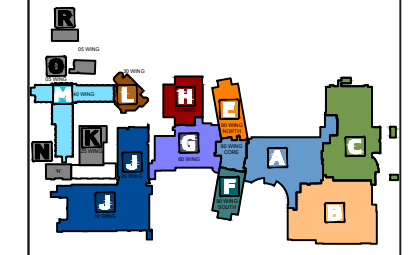
E
90 WING N
CONSTRUCTED
1962



G
TO 'G'
60 WING

F
TO 'F'
90 WING S

A
TO 'A'
90 WING CORE



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
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10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND - OTHER

PI	ACM PIPE INSULATION
DI	ACM DUCT INSULATION
MI	ACM MECHANICAL INSULATION
T1	TYPE 1 ENTRY
T2	TYPE 2 ENTRY
T3	TYPE 3 ENTRY
TF	ACM TEXTURE FINISH
FS	ACM FIRESTOPPING
T	TRANSITE
NAR	NO ACCESS TO ROOM/AREA

GENERAL NOTES:

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JURAVINSKI SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

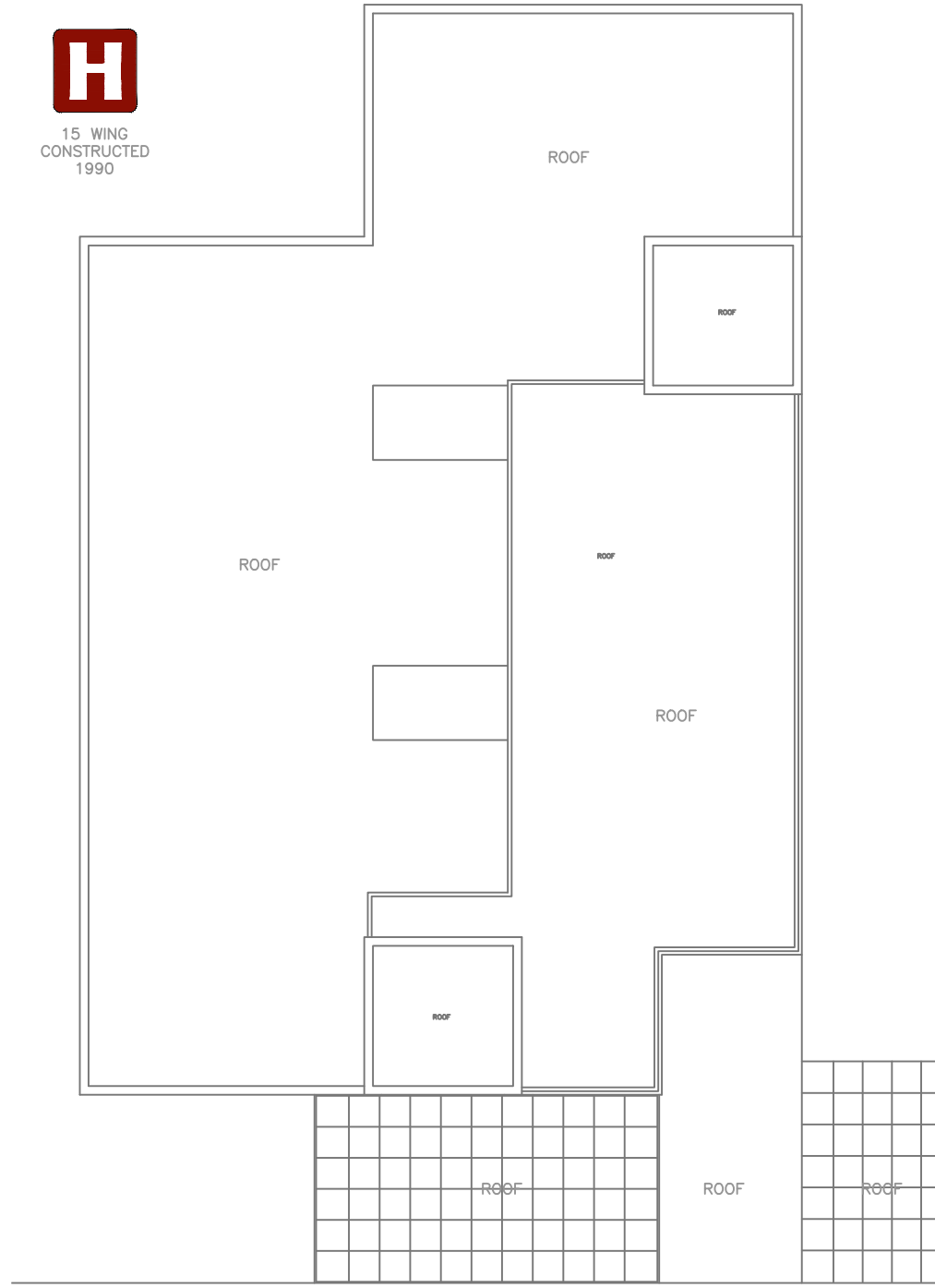
DRAWINGS:
LEVEL 4
SECTION 'E' AND 'H'
ACM OTHER

PLOT DATE:	DEPARTMENT:
	ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 1720030 RA-06 Floor Level 4 Juravinski
DRAWING No.	

EH-RA-06D

SHEET SIZE = ARCH 'D' - 24" x 36" (METER) = 610mm x 914mm (METRIC)

H
15 WING
CONSTRUCTED
1990

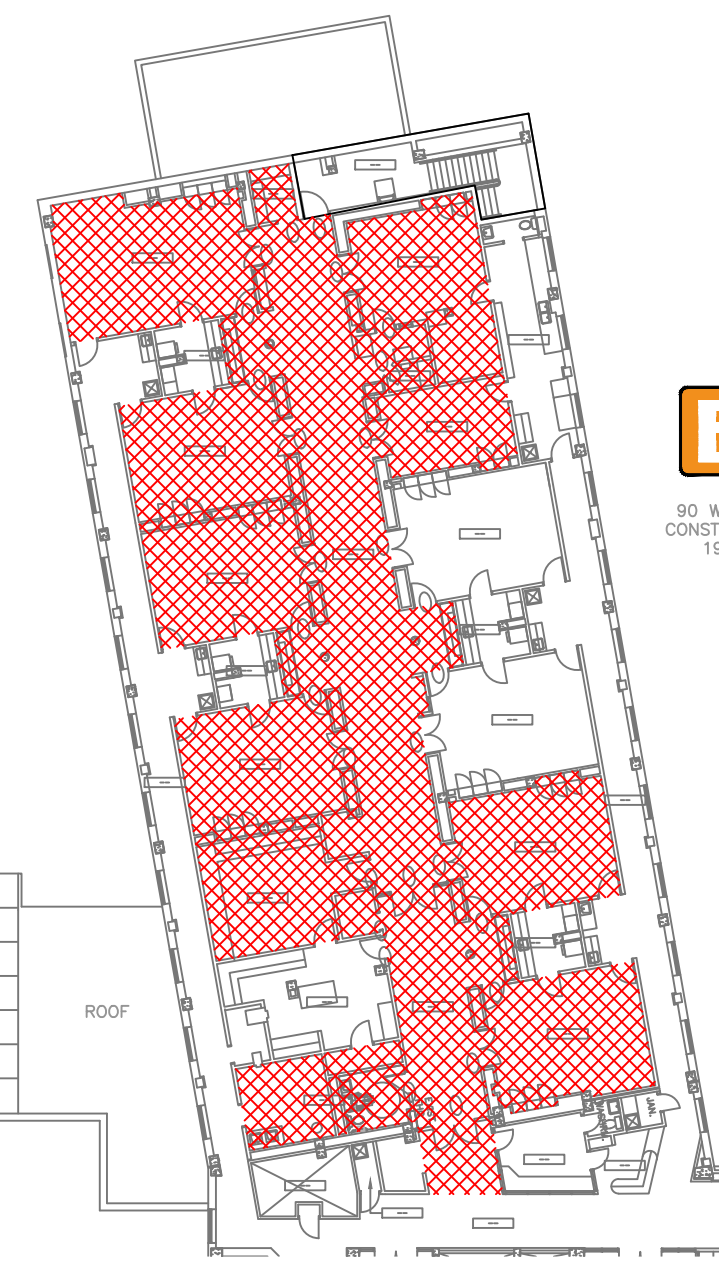


G
TO 'G'
60 WING

F
TO 'F'
90 WING S

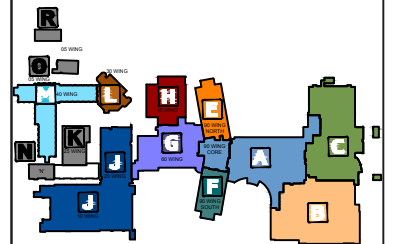
A
TO 'A'
90 WING CORE

E
90 WING N
CONSTRUCTED
1962



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KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
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9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	2/15/2015		REVISED BY PINCHIN LTD.	

- LEGEND:**
- ACM VINYL FLOOR TILE MASTIC
 - ACM VINYL SHEET FLOORING
 - NO ACCESS TO ROOM/AREA
 - ACM FREE OR ABATED AREAS AS PER HHS RECORDS

JURAVINSKI SITE



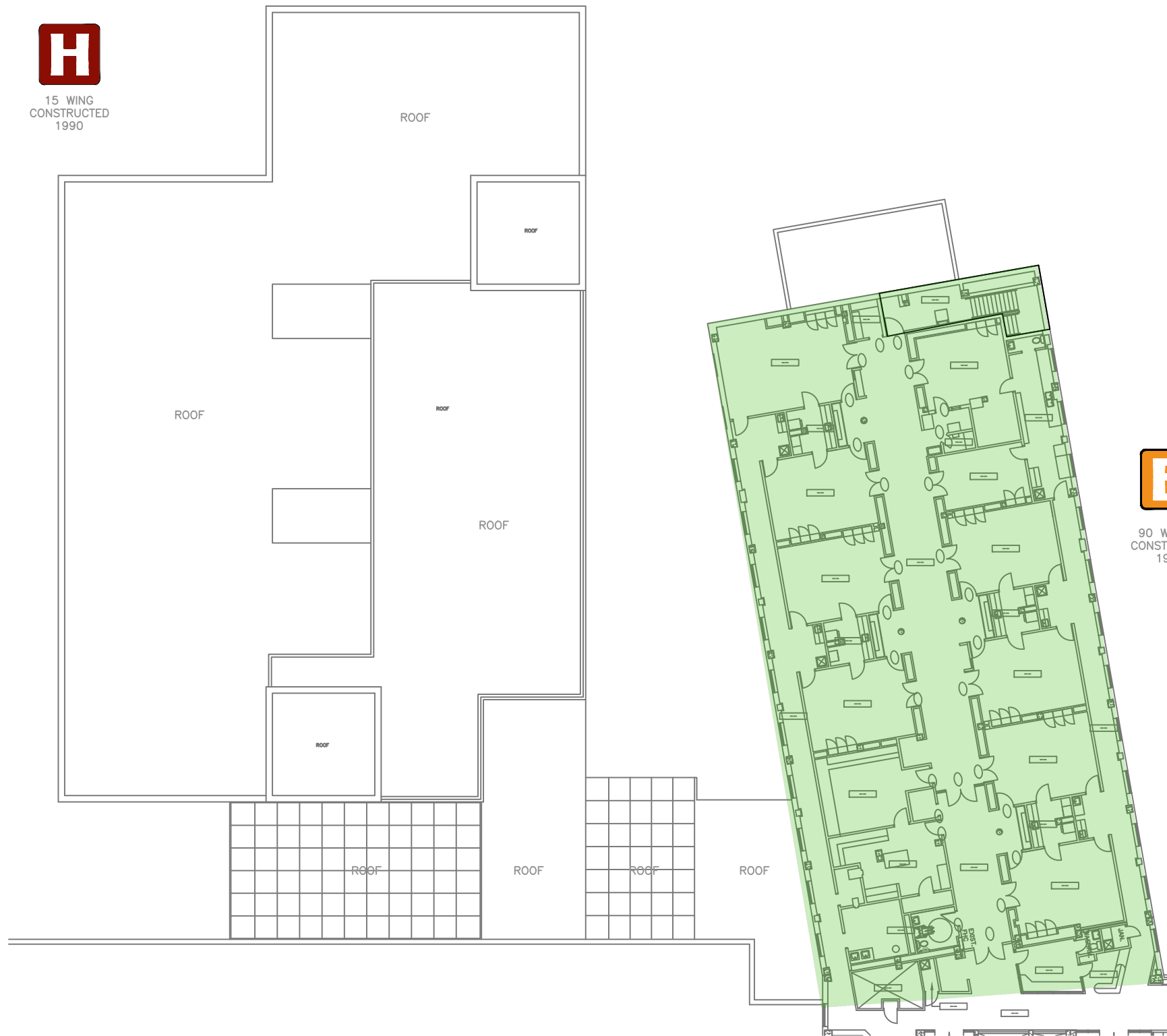
PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS:
LEVEL 5
SECTION 'E' AND 'H'
ACM ON FLOOR

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 1720030 RA-07 Floor Level 5 Juravinski
DRAWING No.	

EH-RA-07A

SHEET SIZE = ARCH 'D' - 24" x 36" (METER) = 610mm x 914mm (METRIC)



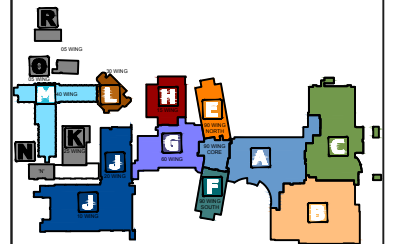
H
15 WING
CONSTRUCTED
1990

E
90 WING N
CONSTRUCTED
1962

G
TO 'G'
60 WING

F
TO 'F'
90 WING S

A
TO 'A'
90 WING CORE



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
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10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:**
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 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

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JURAVINSKI SITE

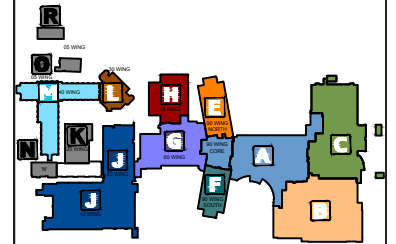
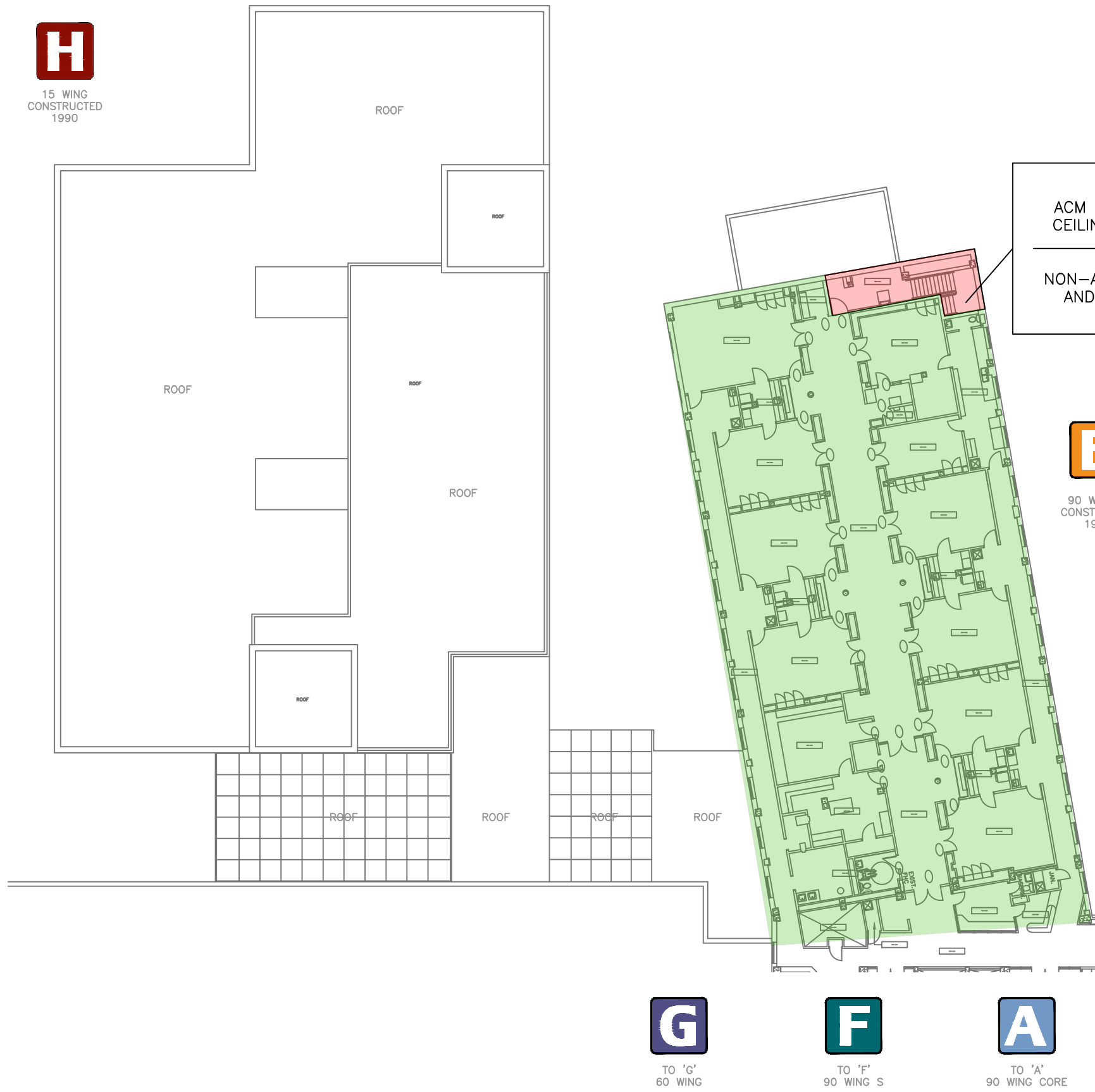
Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS:
LEVEL 5
SECTION 'E' AND 'H'
ACM WALLS

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 1720030 RA-07 Floor Level 5 Juravinski
DRAWING No.	

EH-RA-07B



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
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10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND:

- ACM ROUGH PLASTER CEILING
- SUSPECT ACM
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JURAVINSKI SITE



PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS:
LEVEL 5 SECTION 'E' AND 'H' ACM CEILING

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: L51720030 RA-07 Floor Level 5 Juravinski
DRAWING NO.	

EH-RA-07C

G TO 'G' 60 WING
F TO 'F' 90 WING S
A TO 'A' 90 WING CORE



15 WING
CONSTRUCTED
1990



90 WING N
CONSTRUCTED
1962



TO 'G'
60 WING



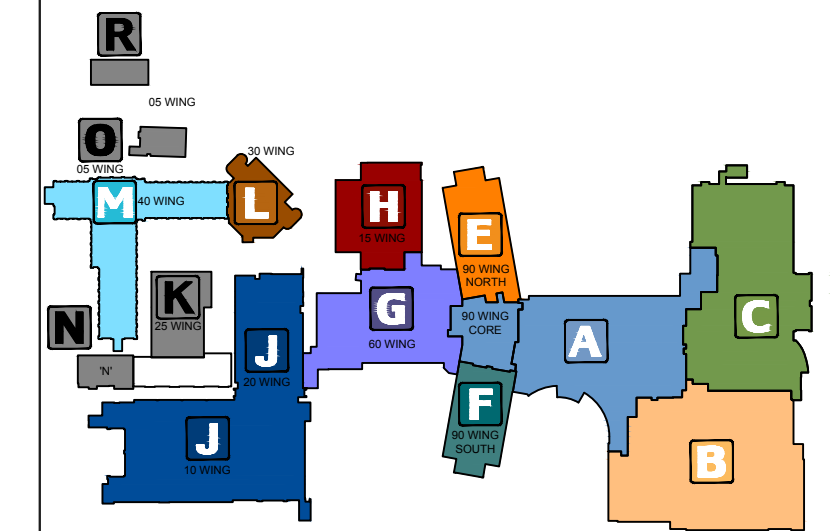
TO 'F'
90 WING S



TO 'A'
90 WING CORE

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10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND - OTHER

- ACM PIPE INSULATION
- ACM DUCT INSULATION
- ACM MECHANICAL INSULATION
- TYPE 1 ENTRY
- TYPE 2 ENTRY
- TYPE 3 ENTRY
- ACM TEXTURE FINISH
- ACM FIRESTOPPING
- TRANSITE
- NO ACCESS TO ROOM/AREA

JURAVINSKI SITE



PROJECT:
JURAVINSKI HOSPITAL AND
CANCER CENTER - ASBESTOS
MANAGEMENT PLAN AND SURVEY

DRAWING:
LEVEL 5
SECTION 'E' AND 'H'
ACM OTHER

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE #: 1425030 RA-07 Floor Level 5 Juravinski
DRAWING No.	

EH-RA-07D



TO 'M'
40 WING



TO 'L'
30 WING



TO 'H'
15 WING



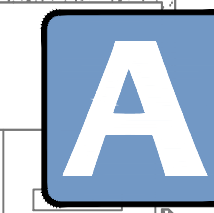
TO 'E'
90 WING N



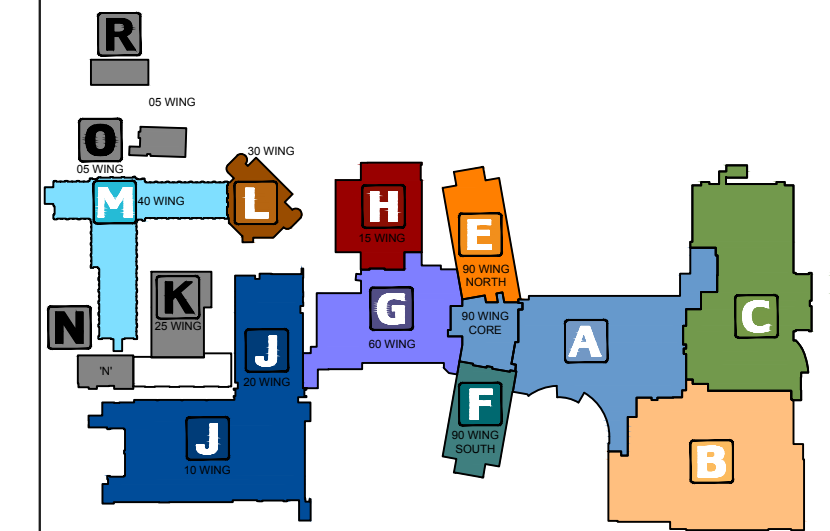
60 WING
CONSTRUCTED
1963



90 WING S
CONSTRUCTED
1960
RENOVATED
2014



90 WING CORE
CONSTR.
1966



KEY PLAN

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
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4	4/1/2013		REVIEWED WITHOUT REVISION	GS
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11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND:

	ACM VINYL FLOOR TILES
	ACM VINYL SHEET FLOORING
	NO ACCESS TO ROOM/AREA
	ACM FREE OR ABATED AREAS AS PER HHS RECORDS

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JURAVINSKI SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

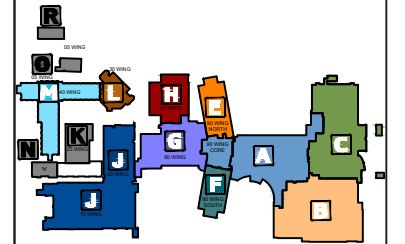
PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING: LEVEL B SECTION 'A', 'F', AND 'G' ACM ON FLOOR

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE: 1425030 RA-01 Floor Level B Juravinski

AFG-RA-01A

SHEET SIZE = ARCH 'D' - 24" x 36" (METERS) = 610mm x 914mm (METRIC)



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
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9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

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 - SUSPECT ACM
 - NO ACM PRESENT
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JURAVINSKI SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS: LEVEL B SECTION 'A', 'F', AND 'G' ACM WALLS

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 1720030 RA-01 Floor Level B Juravinski
DRAWING No.	

AFG-RA01B



TO 'M'
40 WING



TO 'L'
30 WING



TO 'H'
15 WING



TO 'E'
90 WING N



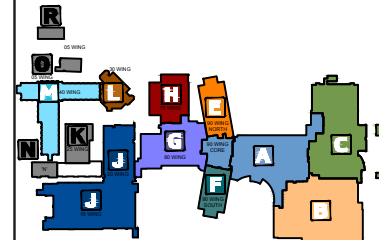
60 WING
CONSTRUCTED
1963



90 WING S
CONSTRUCTED
1960
RENOVATED
2014



90 WING CORE
CONSTR.



KEY PLAN

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND:

	ACM PRESENT
	SUSPECT ACM
	NO ACM PRESENT
	ACM ABATED AREAS AS PER HHS RECORDS

GENERAL NOTES:

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JURAVINSKI SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING:
LEVEL B
SECTION 'A', 'F', AND 'G'
ACM CEILING

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 1720030 RA-01 Floor Level B Juravinski
DRAWING No.	

AFG-RA01C



TO 'M'
40 WING



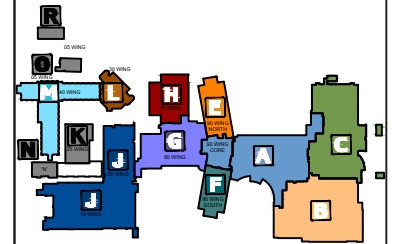
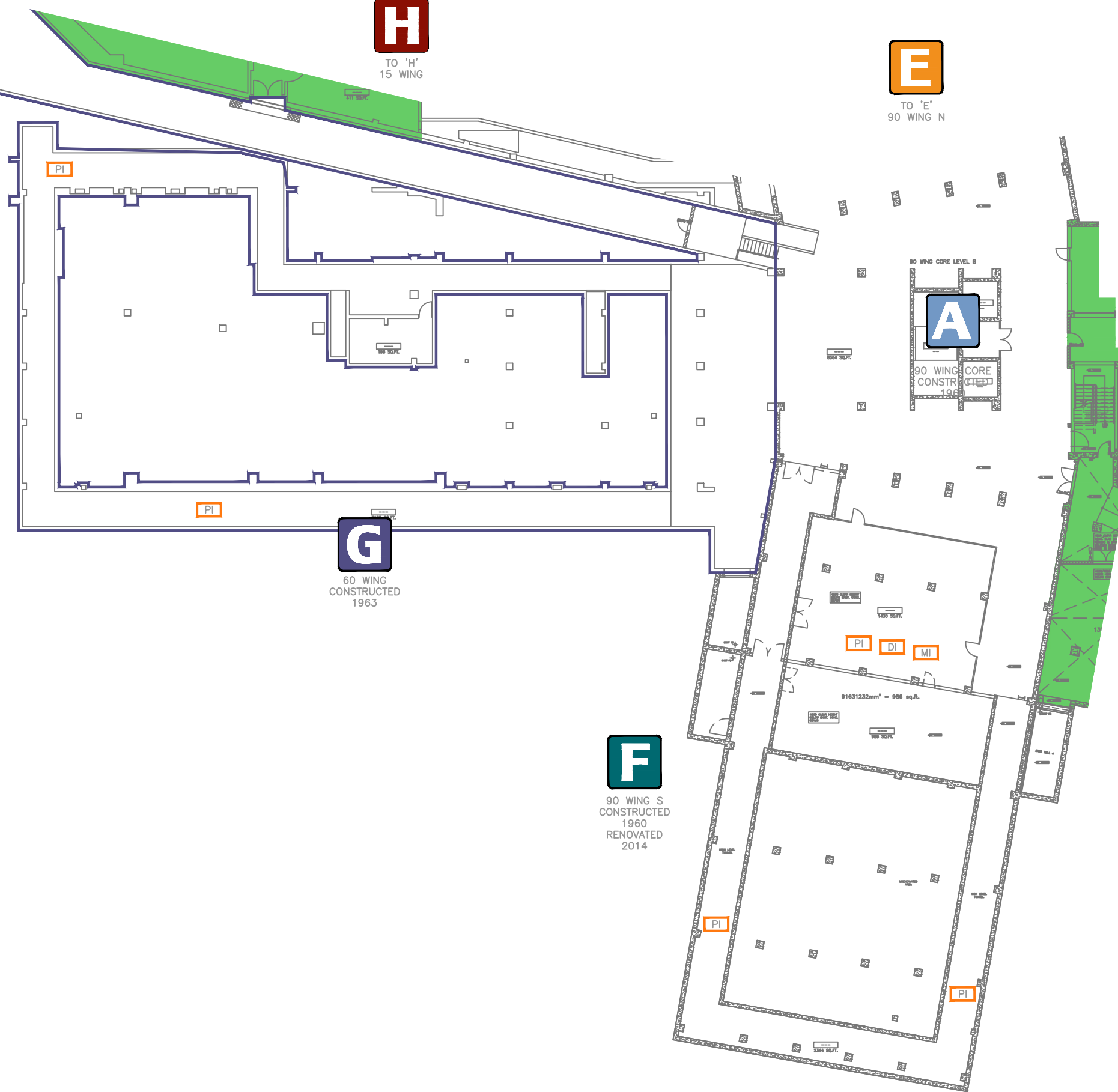
TO 'L'
30 WING



TO 'H'
15 WING



TO 'E'
90 WING N



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
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7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND -- OTHER

PI	ACM PIPE INSULATION
DI	ACM DUCT INSULATION
MI	ACM MECHANICAL INSULATION
T1	TYPE 1 ENTRY
T2	TYPE 2 ENTRY
T3	TYPE 3 ENTRY
TF	ACM TEXTURE FINISH
FS	ACM FIRESTOPPING
T	TRANSITE
NAR	NO ACCESS TO ROOM/AREA

JURAVINSKI SITE



PROJECT:
JURAVINSKI HOSPITAL AND
CANCER CENTER - ASBESTOS
MANAGEMENT PLAN AND SURVEY

DRAWINGS:
LEVEL B
SECTION 'A', 'F', AND 'G'
ACM OTHER

PLOT DATE:	DEPARTMENT:
SCALE:	ENGINEERING
N.T.S.	SUPERVISOR:
DRAWN BY:	GEOFF SCHWARZ
GEOFF SCHWARZ	FILE NAME:
	21720030 RA-01 Floor
DRAWING No.	Level B Juravinski

AFG-RA01D

- GENERAL NOTES:
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M

TO 'M'
40 WING

L

TO 'L'
30 WING

J

TO 'J'
20 WING

H

TO 'H'
15 WING

E

TO 'E'
90 WING N

J

TO 'J'
10 WING

G

60 WING
CONSTRUCTED
1963

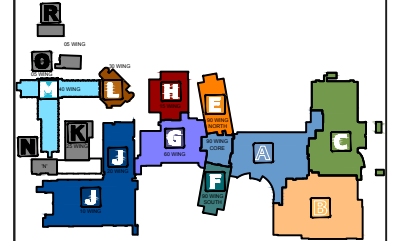
NAR

F

90 WING S
CONSTRUCTED
1960
RENOVATED
2014

A

90 WING CORE
CONSTRUCTED
1966



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	2/1/2013		UPDATED	GS
2	3/1/2013		UPDATED	GS
3	4/1/2013		REVIEWED WITHOUT REVISION	GS
4	5/1/2013		REVIEWED WITHOUT REVISION	GS
5	6/1/2013		REVIEWED WITHOUT REVISION	GS
6	7/1/2013		REVIEWED WITHOUT REVISION	GS
7	8/1/2013		REVIEWED WITHOUT REVISION	GS
8	9/1/2013		REVIEWED WITHOUT REVISION	GS
9	10/1/2013		REVIEWED WITHOUT REVISION	GS
10	11/1/2013		REVIEWED WITHOUT REVISION	GS
11	3/31/2016		UPDATED BY ECOH	MM
12	6/15/2017		UPDATED BY ECOH	JK
13	11/2/2018		UPDATED BY PINCHN LIMITED	JB

- LEGEND:**
- ACM VINYL FLOOR TILES AND/OR MASTIC
 - ACM VINYL SHEET FLOORING
 - NO ACCESS TO ROOM/AREA
 - ACM FREE OR ABATED AREAS AS PER HHS RECORDS

GENERAL NOTES:

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JURAVINSKI SITE



PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS: LEVEL 0 SECTION 'A', 'F', AND 'G' ACM ON FLOOR	
PLOT DATE: NOVEMBER 2018 SCALE: N.T.S. DRAWN BY: JORDAN BOULOS DRAWING NO.	DEPARTMENT: HAZARDOUS MATERIALS SUPERVISOR: MICHAEL MAORANA FILE NAME: 17207030 RA-02 Floor Level 0 Juravinski

AFG-RA02A

M

TO 'M'
40 WING

L

TO 'L'
30 WING

J

TO 'J'
20 WING

H

TO 'H'
15 WING

E

TO 'E'
90 WING N

J

TO 'J'
10 WING

G

60 WING
CONSTRUCTED
1963

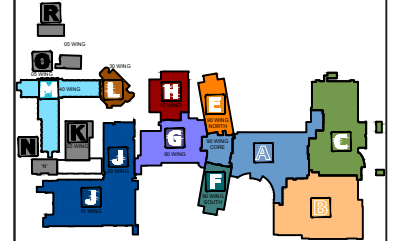
NAR

F

90 WING S
CONSTRUCTED
1960
RENOVATED
2014

A

90 WING CORE
CONSTRUCTED
1966



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	2/1/2013		UPDATED	GS
2	3/1/2013		UPDATED	GS
3	4/1/2013		REVIEWED WITHOUT REVISION	GS
4	5/1/2013		REVIEWED WITHOUT REVISION	GS
5	6/1/2013		REVIEWED WITHOUT REVISION	GS
6	7/1/2013		REVIEWED WITHOUT REVISION	GS
7	8/1/2013		REVIEWED WITHOUT REVISION	GS
8	9/1/2013		REVIEWED WITHOUT REVISION	GS
9	10/1/2013		REVIEWED WITHOUT REVISION	GS
10	11/1/2013		REVIEWED WITHOUT REVISION	GS
11	3/31/2016		UPDATED BY ECOH	MM
12	6/15/2017		UPDATED BY ECOH	JK
13	11/2/2018		UPDATED BY PINCHN LIMITED	JB

- LEGEND:
- ACM PLASTER WALLS
 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

GENERAL NOTES:

1. DRAWINGS HAVE BEEN CONVERTED FROM A CONTRACTED SOURCE JANUARY 2013 AND WILL BE MAINTAINED BY HHS ENGINEERING STAFF.
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JURAVINSKI SITE



Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS: LEVEL 0 SECTION 'A', 'F', AND 'G' ACM WALLS

PLOT DATE: NOVEMBER 2018	DEPARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 17207030 RA-02 Floor Level 0 Juravinski
DRAWING No.	

AFG-RA02B

M
TO 'M'
40 WING

L
TO 'L'
30 WING

J
TO 'J'
20 WING

H
TO 'H'
15 WING

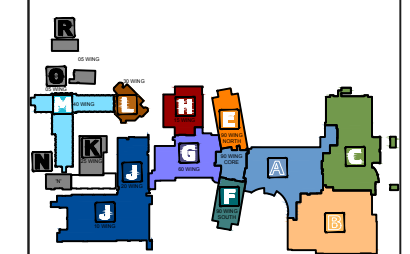
E
TO 'E'
90 WING N

J
TO 'J'
10 WING

G
60 WING
CONSTRUCTED
1963
NAR

F
90 WING S
CONSTRUCTED
1960
RENOVATED
2014

A
90 WING CORE
CONSTRUCTED
1966



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	2/1/2013		UPDATED	GS
2	3/1/2013		UPDATED	GS
3	4/1/2013		REVIEWED WITHOUT REVISION	GS
4	5/1/2013		REVIEWED WITHOUT REVISION	GS
5	6/1/2013		REVIEWED WITHOUT REVISION	GS
6	7/1/2013		REVIEWED WITHOUT REVISION	GS
7	8/1/2013		REVIEWED WITHOUT REVISION	GS
8	9/1/2013		REVIEWED WITHOUT REVISION	GS
9	10/1/2013		REVIEWED WITHOUT REVISION	GS
10	11/1/2013		REVIEWED WITHOUT REVISION	GS
11	3/31/2016		UPDATED BY ECOH	MM
12	6/15/2017		UPDATED BY ECOH	JK
13	11/2/2018		UPDATED BY PINCHN LIMITED	JB

LEGEND:

	ACM PLASTER AND/OR ROUGH PLASTER CEILING
	SUSPECT ACM PLASTER CEILING
	NO ACM PRESENT
	ACM ABATED AREAS AS PER HHS RECORDS

G-WING
ACM Rough Plaster Ceiling in Stairwell

Suspect ACM Plaster Ceiling

Non ACM CT & DJC on Ceiling

F-WING
ACM Rough Plaster in Stairwells

ACM Plaster in Ceilings

Non-ACM DJC & CT on Ceiling

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JURAVINSKI SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS: LEVEL 0 SECTION 'A', 'F', AND 'G' ACM CEILING

PLOT DATE: NOVEMBER 2018	DEPARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 17207030 RA-02 Floor Level 0 Juravinski
DRAWING NO.:	

AFG-RA02C

M
TO 'M'
40 WING

L
TO 'L'
30 WING

J
TO 'J'
20 WING

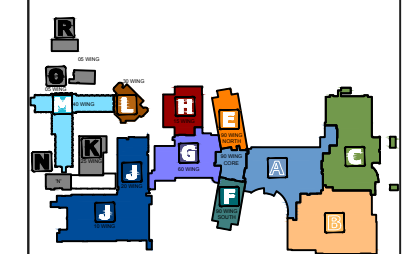
H
TO 'H'
15 WING

E
TO 'E'
90 WING N

J
TO 'J'
10 WING

G
60 WING
CONSTRUCTED
1963
NAR

F
90 WING S
CONSTRUCTED
1960
RENOVATED
2014



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	2/1/2013		UPDATED	GS
2	3/1/2013		UPDATED	GS
3	4/1/2013		REVIEWED WITHOUT REVISION	GS
4	5/1/2013		REVIEWED WITHOUT REVISION	GS
5	6/1/2013		REVIEWED WITHOUT REVISION	GS
6	7/1/2013		REVIEWED WITHOUT REVISION	GS
7	8/1/2013		REVIEWED WITHOUT REVISION	GS
8	9/1/2013		REVIEWED WITHOUT REVISION	GS
9	10/1/2013		REVIEWED WITHOUT REVISION	GS
10	11/1/2013		REVIEWED WITHOUT REVISION	GS
11	3/31/2016		UPDATED BY ECOH	MM
12	6/15/2017		UPDATED BY ECOH	JK
13	11/2/2018		UPDATED BY PINCHN LIMITED	JB

LEGEND - OTHER

PI	ACM PIPE INSULATION
DI	ACM DUCT INSULATION
MI	ACM MECHANICAL INSULATION
T1	TYPE 1 ENTRY
T2	TYPE 2 ENTRY
T3	TYPE 3 ENTRY
TF	ACM TEXTURE FINISH
FS	ACM FIRESTOPPING
T	TRANSITE
NAR	NO ACCESS TO ROOM/AREA

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JURAVINSKI SITE

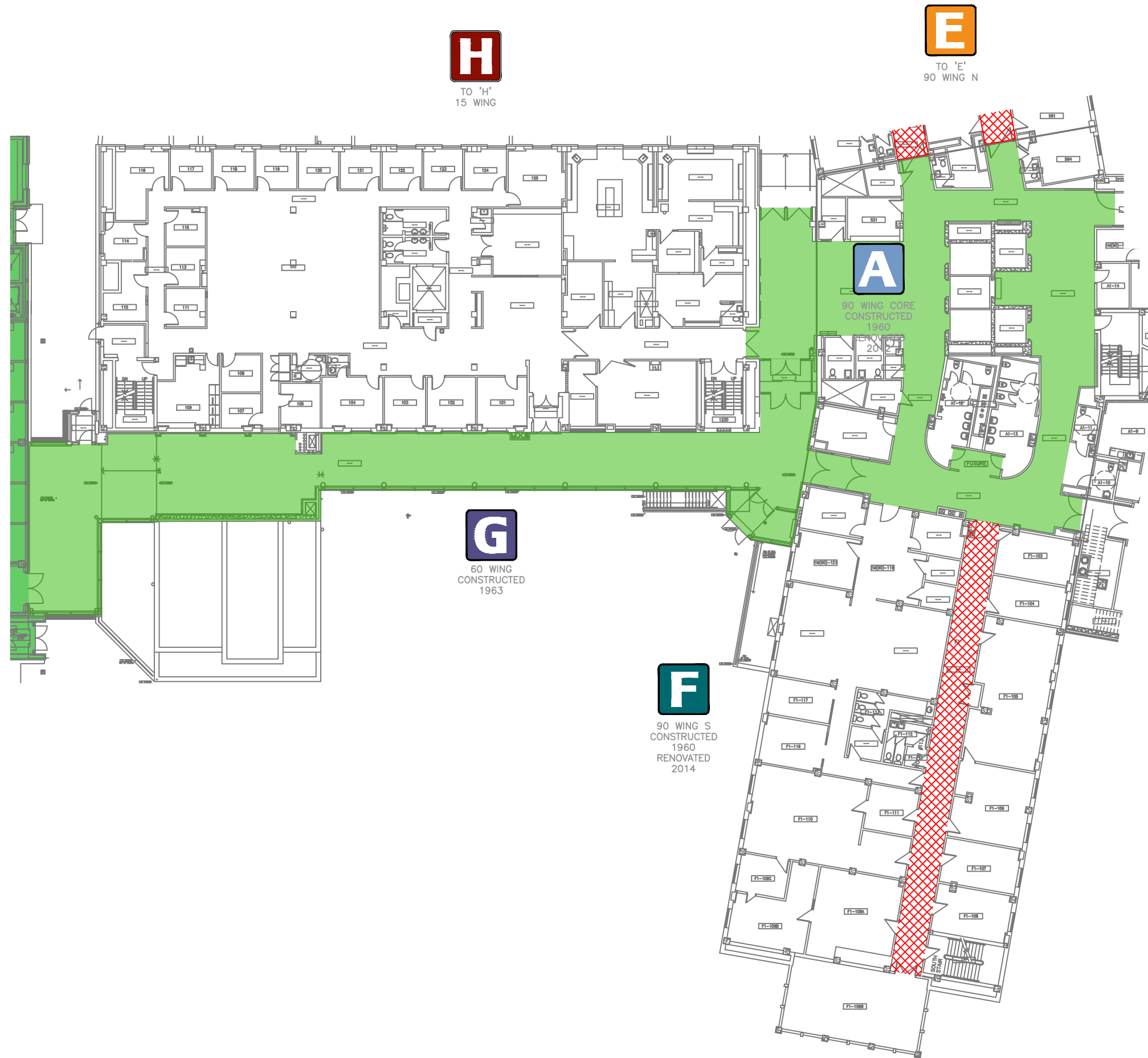
Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS:
LEVEL 0
SECTION 'A', 'F', AND 'G'
ACM OTHER

PLANT DATE: NOVEMBER 2018	DEPARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 17207030 RA-02 Floor Level 0 Juravinski
DRAWING No.	

AFG-RA02D



J
TO 'J'
20 WING

J
TO 'J'
10 WING

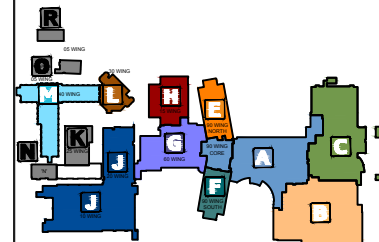
H
TO 'H'
15 WING

E
TO 'E'
90 WING N

G
60 WING
CONSTRUCTED
1963

F
90 WING S
CONSTRUCTED
1960
RENOVATED
2014

A
90 WING CORE
CONSTRUCTED
1960



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
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6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND:

- ACM VINYL FLOOR TILES
- ACM VINYL SHEET FLOORING
- NO ACCESS TO ROOM/AREA
- ACM FREE OR ABATED AREAS AS PER HHS RECORDS

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JURAVINSKI SITE

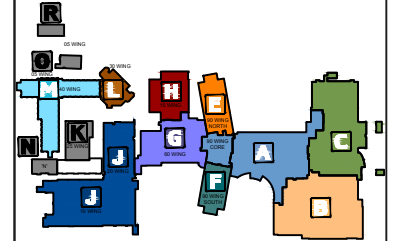
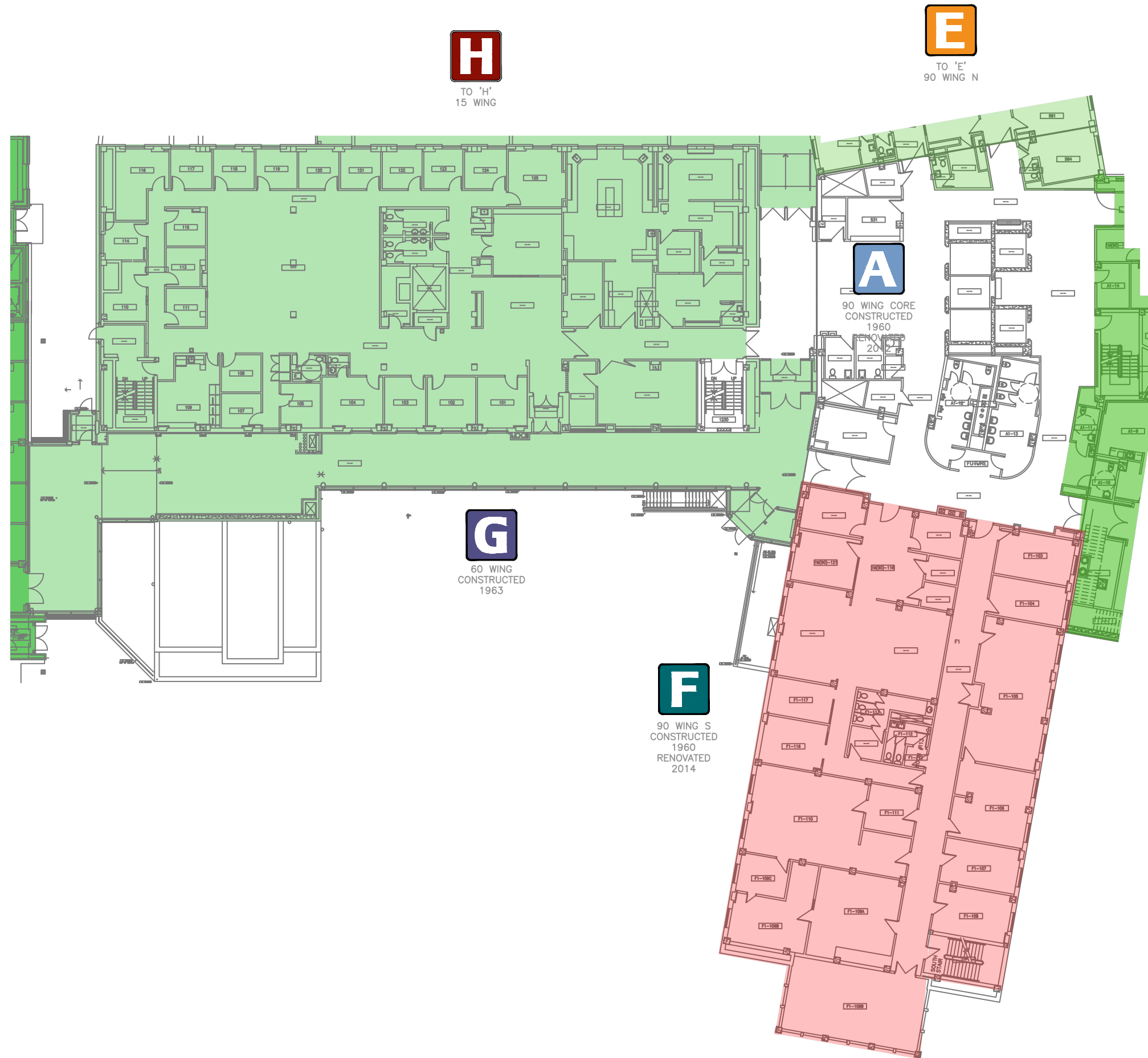


PROJECT:
JURAVINSKI HOSPITAL AND
CANCER CENTER – ASBESTOS
MANAGEMENT PLAN AND SURVEY

DRAWINGS:
LEVEL 1
SECTION 'A', 'F', AND 'G'
ACM ON FLOOR

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 174207030 RA-03 Floor Level 1 Juravinski
DRAWING NO.	

AFG-RA-03A



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
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10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND:

- ACM PLASTER WALLS
- SUSPECT ACM PLASTER WALLS
- NO ACM PRESENT
- ACM ABATED AREAS AS PER HHS RECORDS

- GENERAL NOTES:**
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 - AREAS WITHOUT A DESIGNATION OF ACM (ASBESTOS CONTAINING MATERIAL) SHALL BE TREATED AS ACM UNTIL PROVEN OTHERWISE.
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 - IF YOU SUSPECT A MATERIAL TO BE ACM IN AN AREA SHOWN TO BE FREE OF ACM, CONTACT THE ASBESTOS COORDINATOR FOR CONSULTATION.
 - AREAS DENOTED AS "SUSPECT MATERIAL" SHOULD BE PRESUMED TO CONTAIN ASBESTOS IN THE ABSENCE OF ADDITIONAL SAMPLING THAT PROVES OTHERWISE.

JURAVINSKI SITE

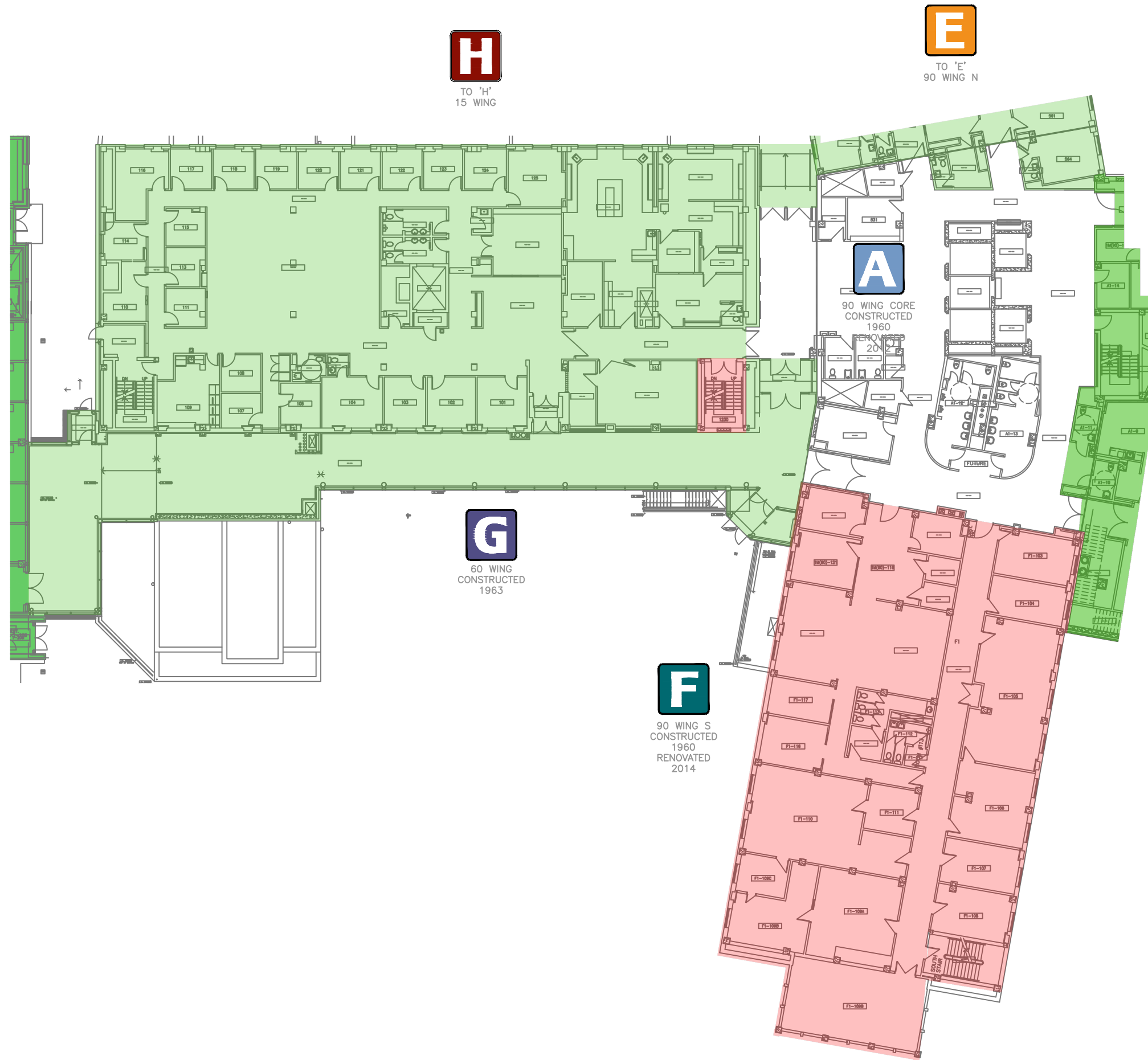


PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING:
LEVEL 1 SECTION 'A', 'F', AND 'G' ACM WALLS

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 17207030 RA-03 Floor Level 1 Juravinski
DRAWING No.	

AFG-RA03B



J
TO 'J'
20 WING

J
TO 'J'
10 WING

H
TO 'H'
15 WING

E
TO 'E'
90 WING N

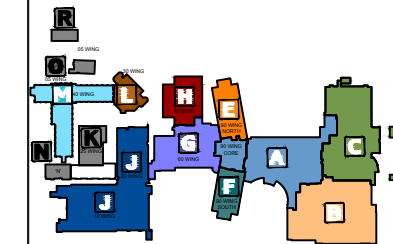
G
60 WING
CONSTRUCTED
1963

F
90 WING S
CONSTRUCTED
1960
RENOVATED
2014

A
90 WING CORE
CONSTRUCTED
1960

GENERAL NOTES:

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KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:
- ACM ROUGH PLASTER AND/OR PLASTER CEILING
 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

JURAVINSKI SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING:
LEVEL 1 SECTION 'A', 'F', AND 'G' ACM CEILING

PLOT DATE: _____ DEPARTMENT: ENGINEERING

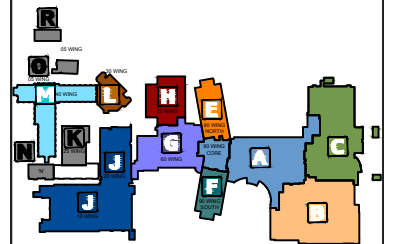
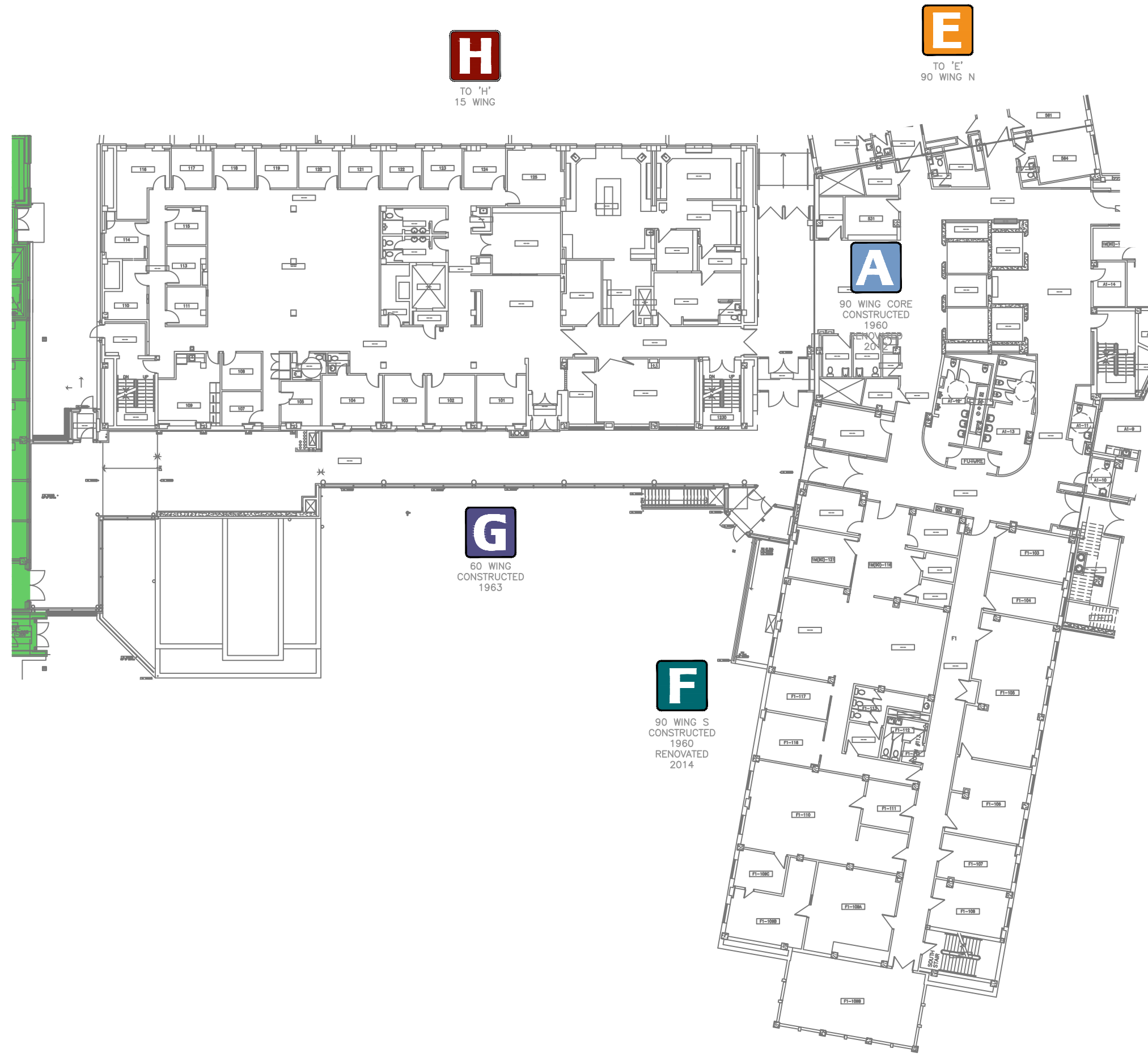
SCALE: N.T.S. SUPERVISOR: GEOFF SCHWARZ

DRAWN BY: GEOFF SCHWARZ FILE NAME: 1742030 RA-03 Floor Level 1 Juravinski

DRAWING NO. _____

AFG-RA-03C

SHEET SIZE = ARCH D - 24" x 36" (IMPERIAL) - 610mm x 914mm (METRIC)



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND - OTHER

PI	ACM PIPE INSULATION
DI	ACM DUCT INSULATION
MI	ACM MECHANICAL INSULATION
T1	TYPE 1 ENTRY
T2	TYPE 2 ENTRY
T3	TYPE 3 ENTRY
TF	ACM TEXTURE FINISH
FS	ACM FIRESTOPPING
T	TRANSITE
NAR	NO ACCESS TO ROOM/AREA

- GENERAL NOTES:
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 - IF YOU SUSPECT A MATERIAL TO BE ACM IN AN AREA SHOWN TO BE FREE OF ACM, CONTACT THE ASBESTOS COORDINATOR FOR CONSULTATION.

JURAVINSKI SITE

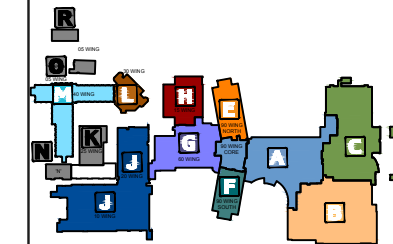
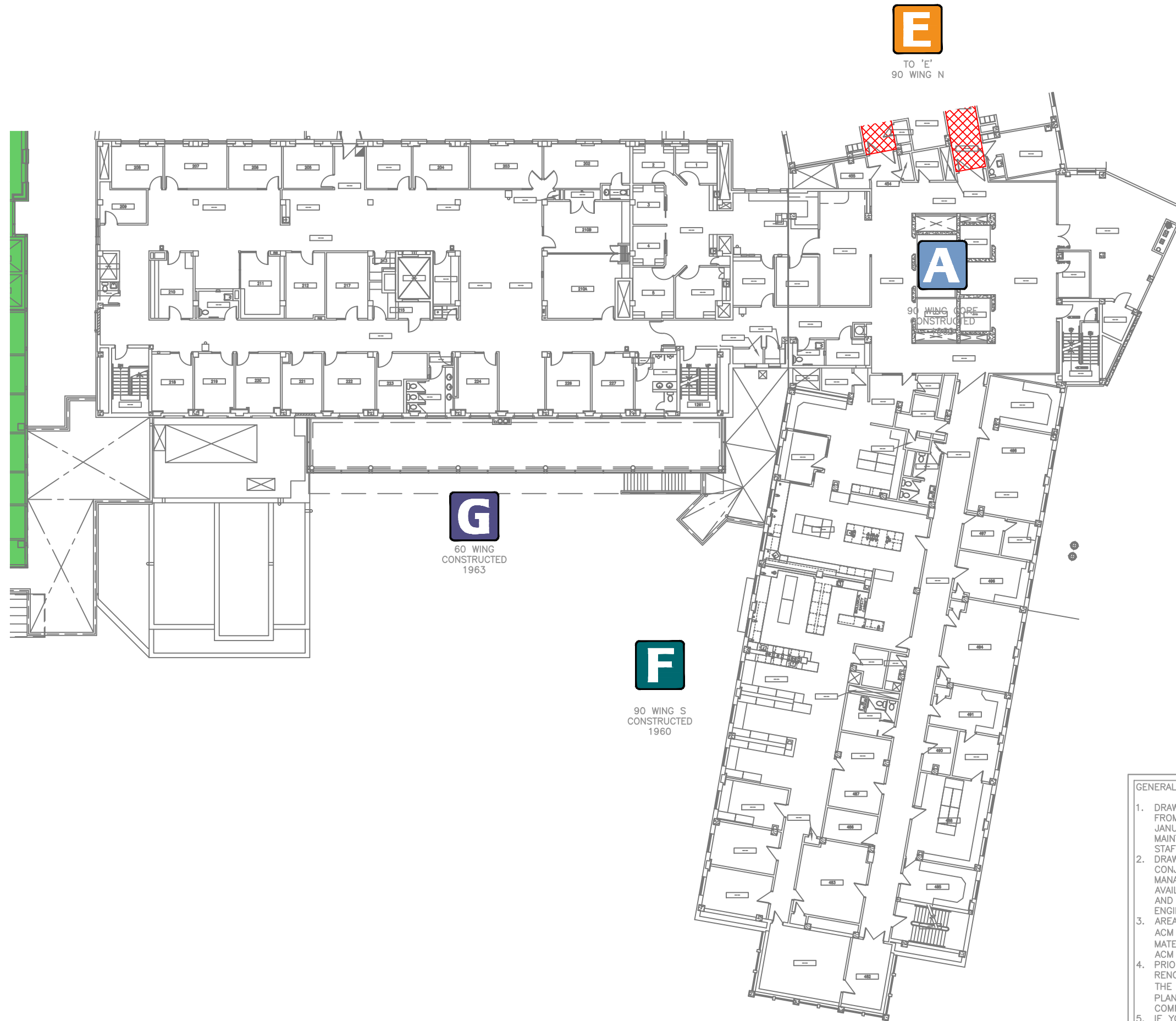
Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS: LEVEL 1 SECTION 'A', 'F', AND 'G' ACM OTHER

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 174207030 RA-03 Floor Level 1 Juravinski
DRAWING NO.	

AFG-RA03D



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
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8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:**
- ACM VINYL FLOOR TILES
 - ACM VINYL SHEET FLOORING
 - NO ACCESS TO ROOM/AREA
 - ACM FREE OR ABATED AREAS AS PER HHS RECORDS

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JURAVINSKI SITE

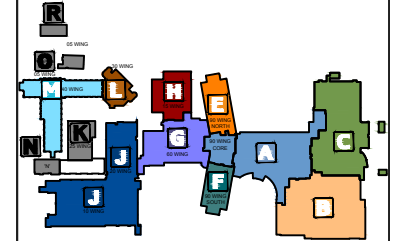
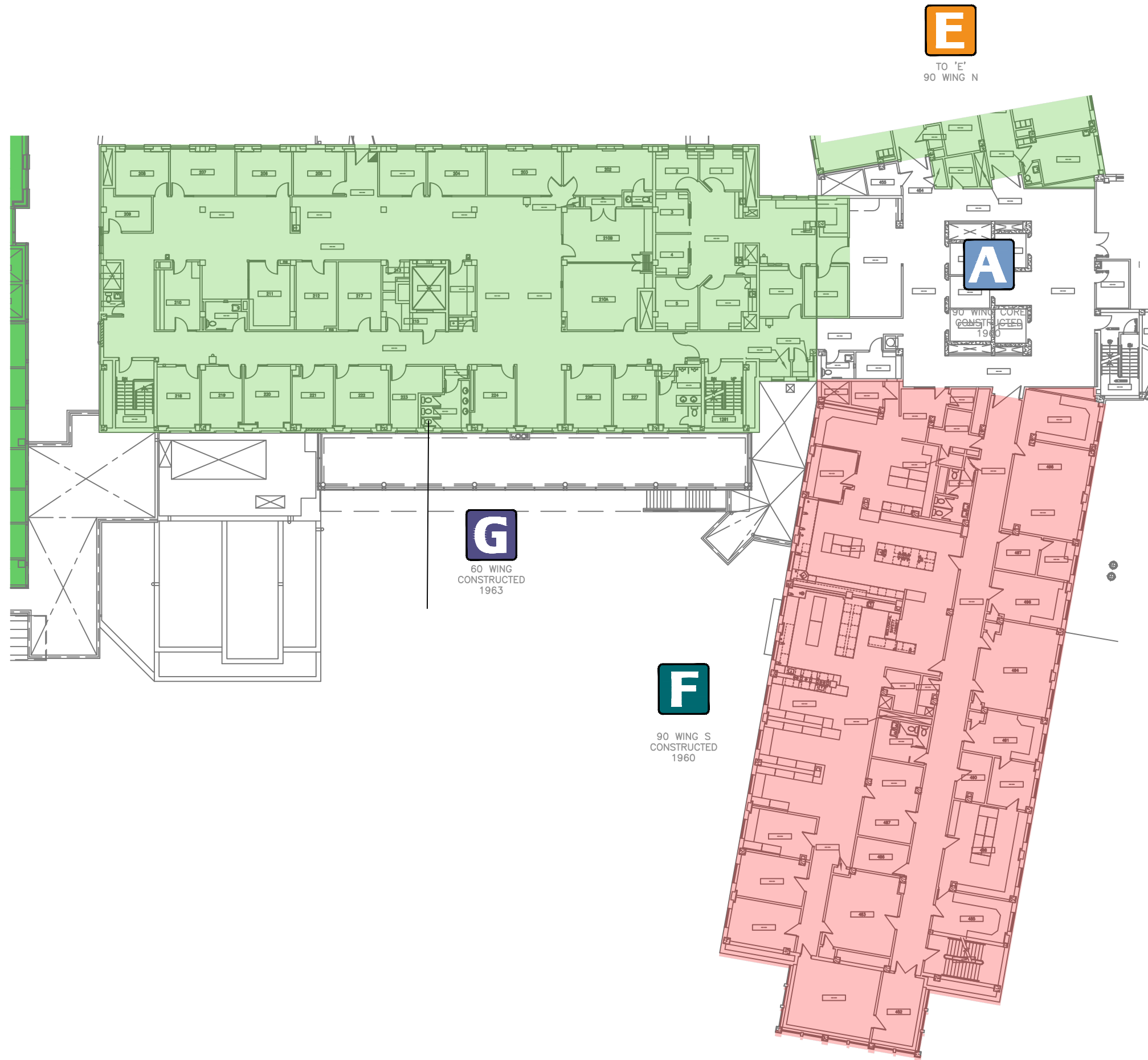
Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS: LEVEL 2 SECTION 'A', 'F', AND 'G' ACM ON FLOOR

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 17420030 RA-04 Floor Level 2 Juravinski
DRAWING No.	

AFG-RA04A



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:
- ACM PLASTER WALLS
 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

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JURAVINSKI SITE

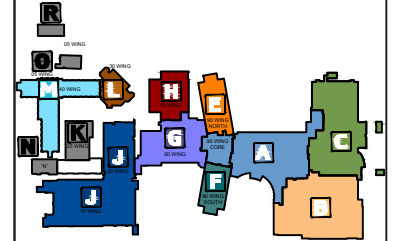
Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS: LEVEL 2 SECTION 'A', 'F', AND 'G' ACM WALLS

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 1720030 RA-04 Floor Level 2 Juravinski
DRAWING NO.	

AFG-RA04B



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
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10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:
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 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

GENERAL NOTES:

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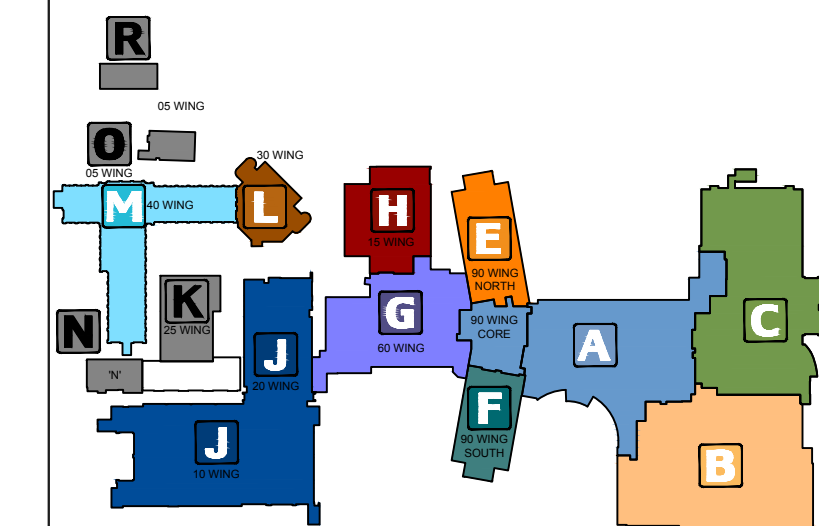
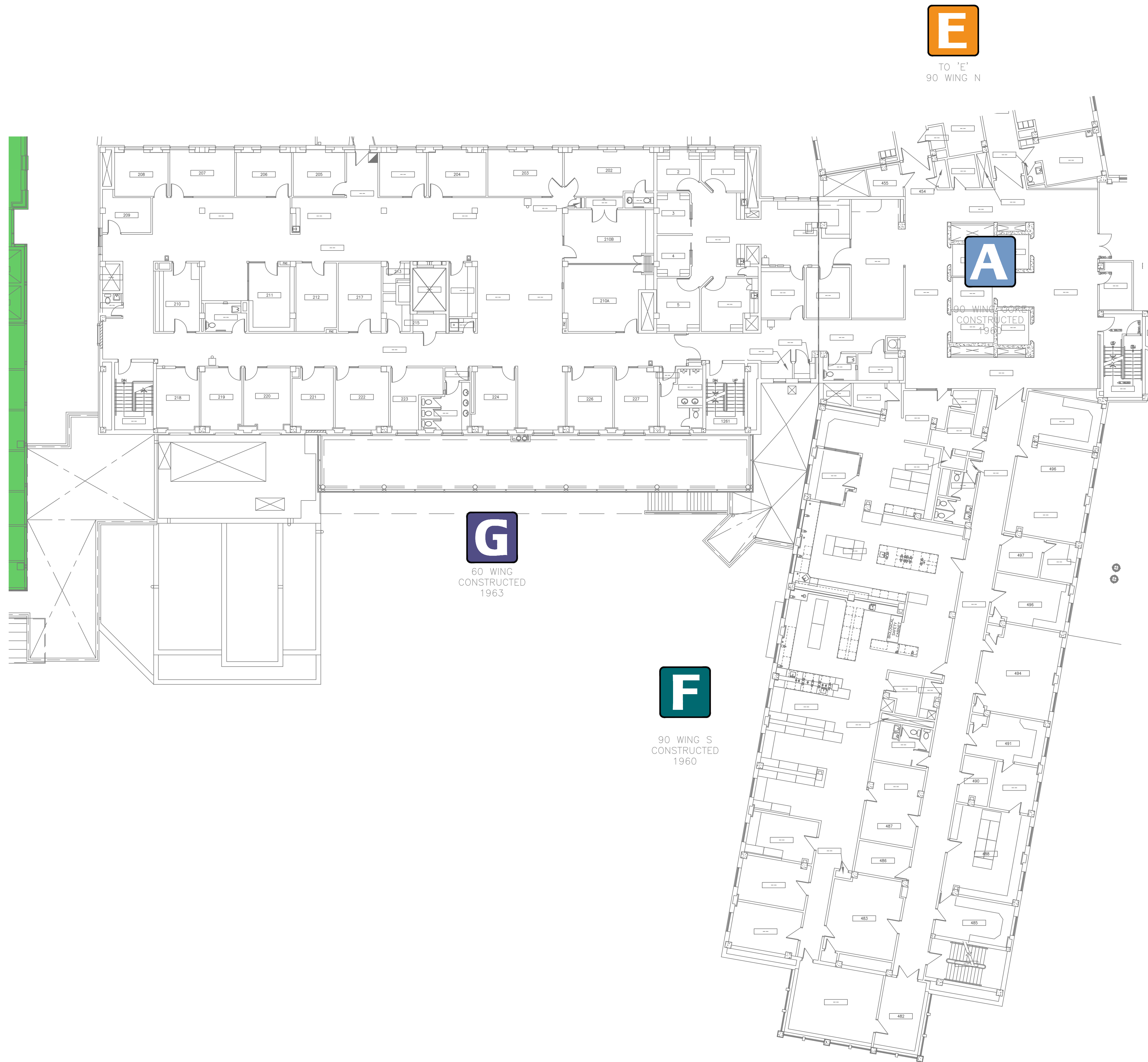
JURAVINSKI SITE



Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY	
DRAWING: LEVEL 2 SECTION 'A', 'F', AND 'G' ACM CEILING	
PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 17420030 RA-04 Floor Level 2 Juravinski
DRAWING NO.	

AFG-RA04C



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND - OTHER

PI	ACM PIPE INSULATION
DI	ACM DUCT INSULATION
MI	ACM MECHANICAL INSULATION
T1	TYPE 1 ENTRY
T2	TYPE 2 ENTRY
T3	TYPE 3 ENTRY
TF	ACM TEXTURE FINISH
FS	ACM FIRESTOPPING
T	TRANSITE
NAR	NO ACCESS TO ROOM/AREA

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JURAVINSKI SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

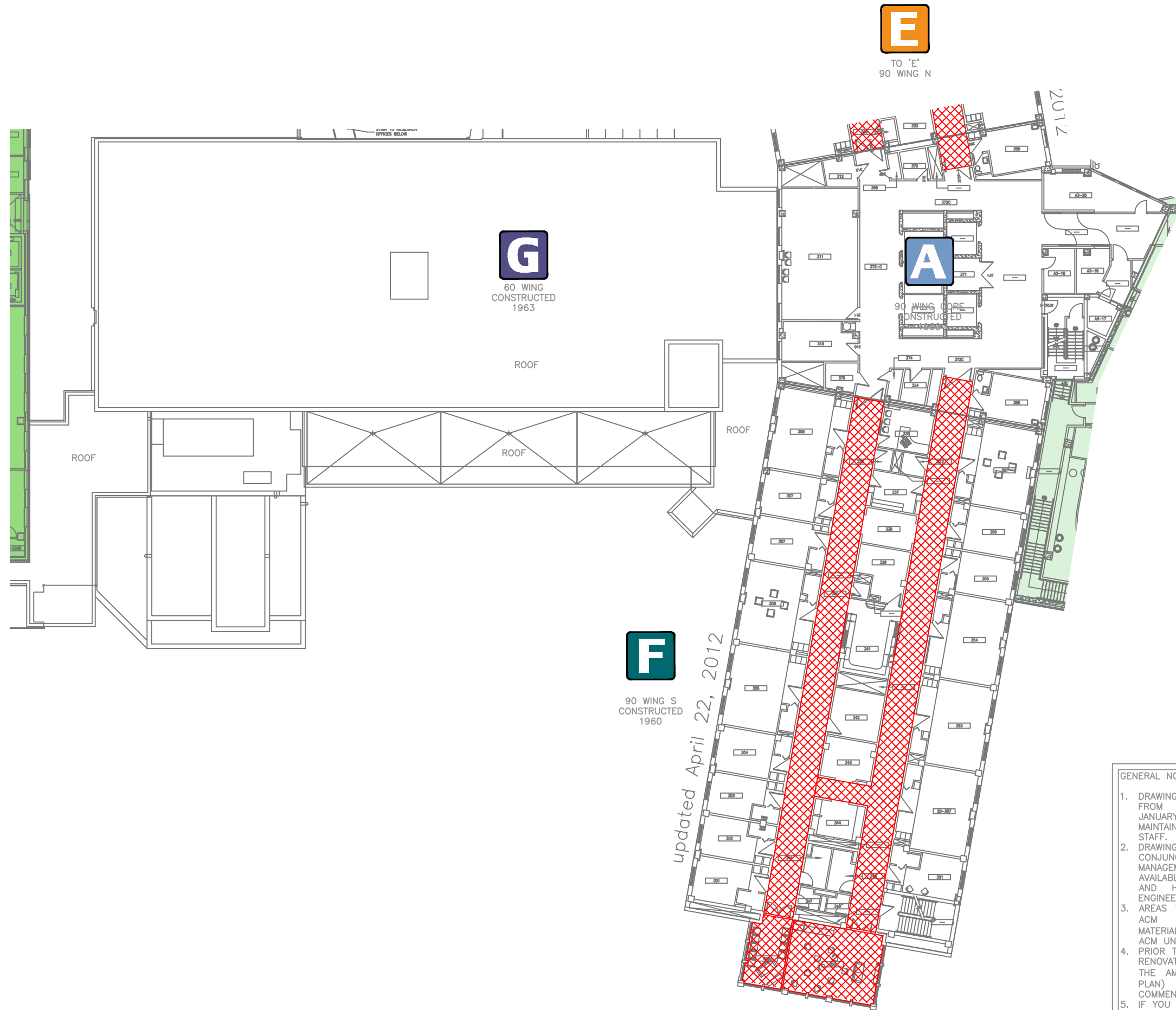
PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING: LEVEL 2 SECTION 'A', 'F', AND 'G' ACM OTHER

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE: 1425030 RA-04 Floor Level 2 Juravinski
DRAWING No.	

AFG-RA04D

SHEET SIZE = ARCH 'D' - 24" x 36" (METER) = 610mm x 914mm (METRIC)



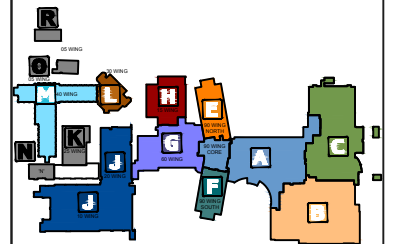
E
TO 'E'
90 WING N

G
60 WING
CONSTRUCTED
1963

A
90 WING CORE
CONSTRUCTED

F
90 WING S
CONSTRUCTED
1960

updated April 22, 2012



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
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10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:
- ACM VINYL FLOOR TILES
 - ACM VINYL SHEET FLOORING
 - NO ACCESS TO ROOM/AREA
 - ACM FREE OR ABATED AREAS AS PER HHS RECORDS

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JURAVINSKI SITE

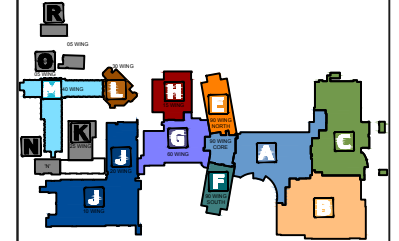
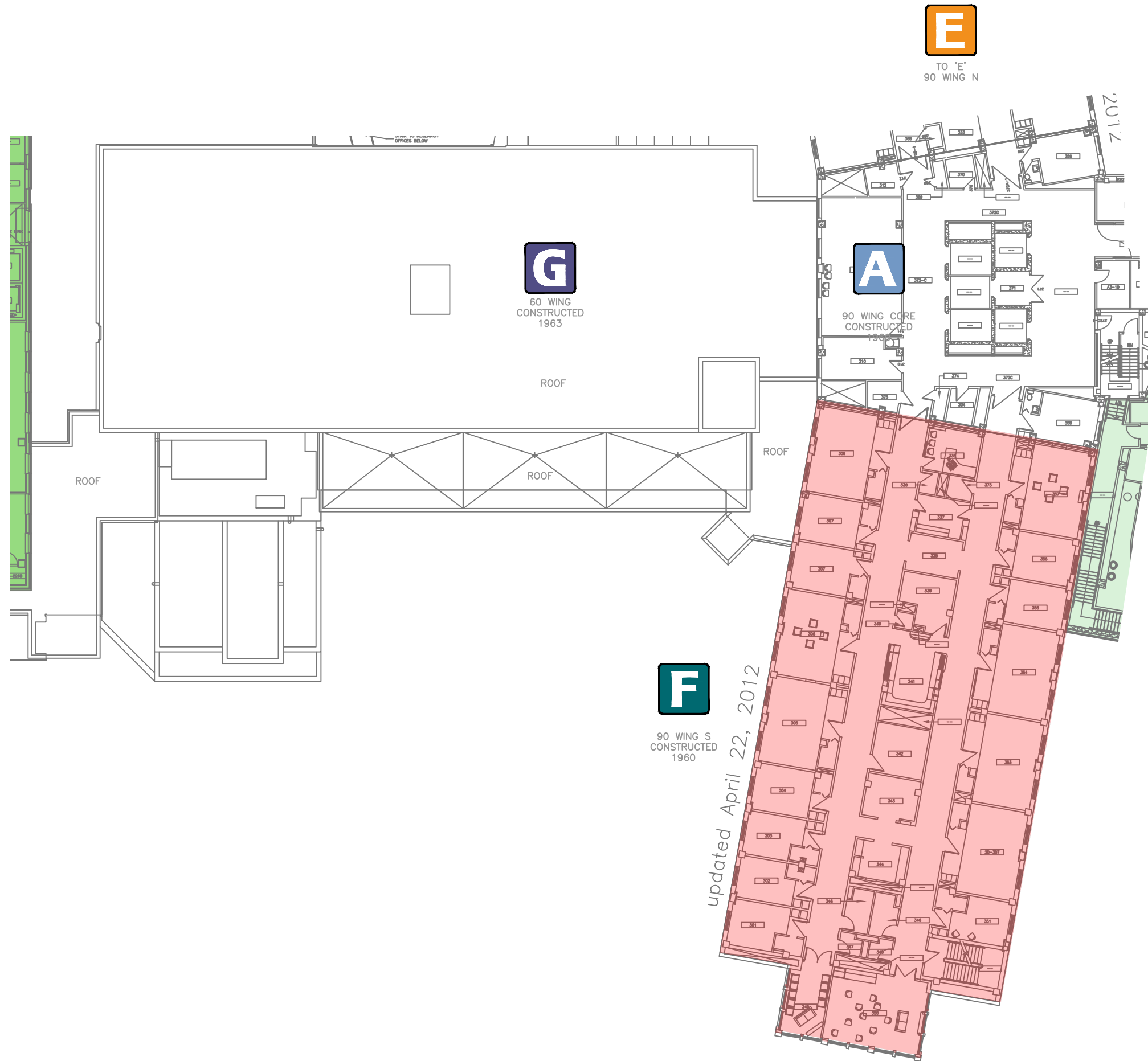
Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS:
LEVEL 3
SECTION 'A', 'F', AND 'G'
ACM ON FLOOR

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 17420030 RA-05 Floor Level 3 Juravinski
DRAWING No.	

AFG-RA05A



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
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9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:**
- ACM PLASTER WALL
 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

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JURAVINSKI SITE

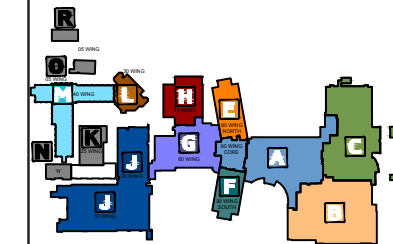
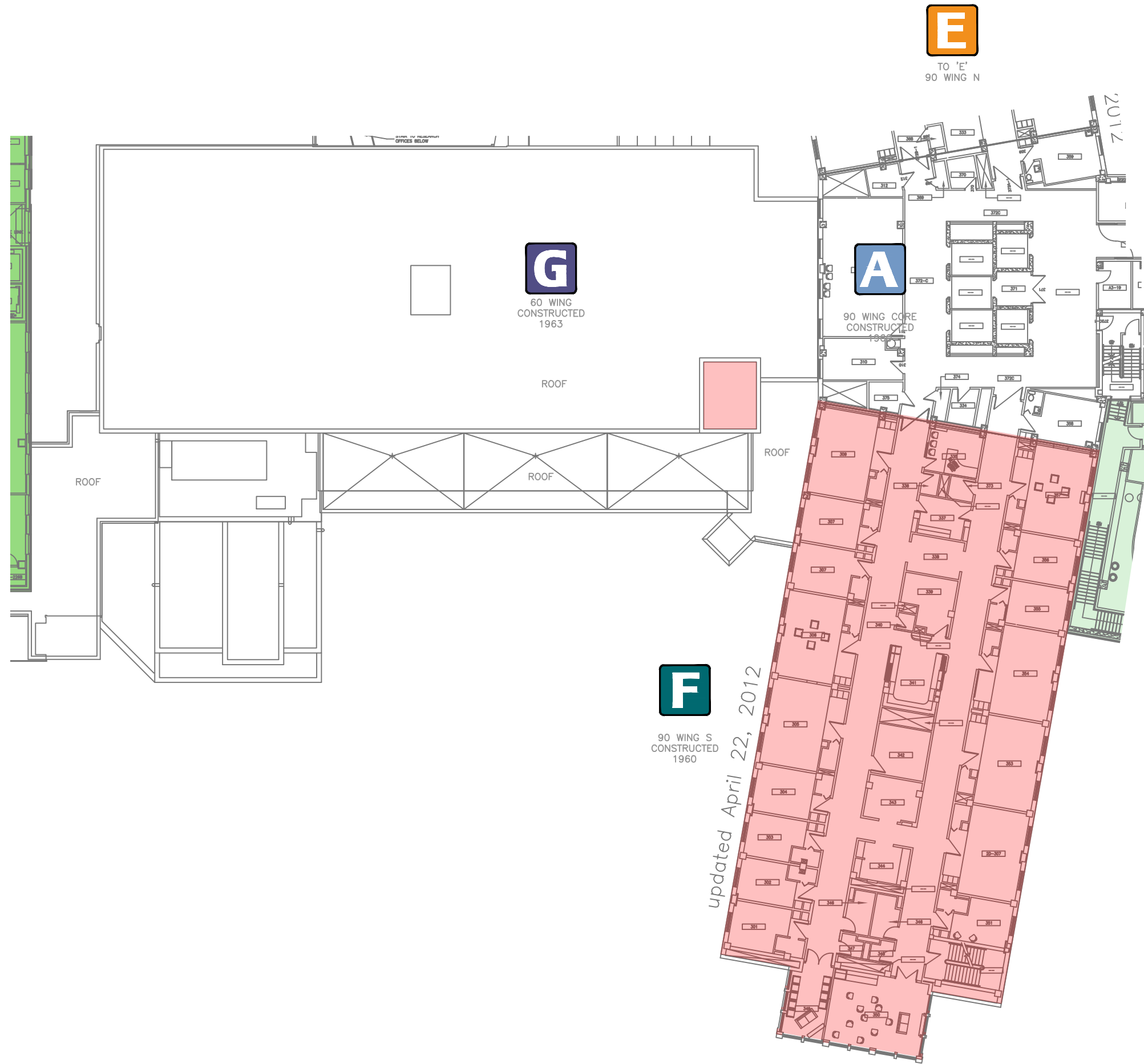
Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS: LEVEL 3 SECTION 'A', 'F', AND 'G' ACM WALLS

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 17420030 RA-05 Floor Level 3 Juravinski
DRAWING No.	

AFG-RA05B



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
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10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:**
- ACM ROUGH PLASTER AND/OR PLASTER CEILING
 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

- GENERAL NOTES:**
- DRAWINGS HAVE BEEN CONVERTED FROM A CONTRACTED SOURCE JANUARY 2013 AND WILL BE MAINTAINED BY HHS ENGINEERING STAFF.
 - DRAWINGS SHALL BE READ IN CONJUNCTION WITH HHS ASBESTOS MANAGEMENT PLAN AND SURVEYS AVAILABLE ON THE HHS INTRANET, AND HARDCOPY IN THE SITES ENGINEERING DEPT.
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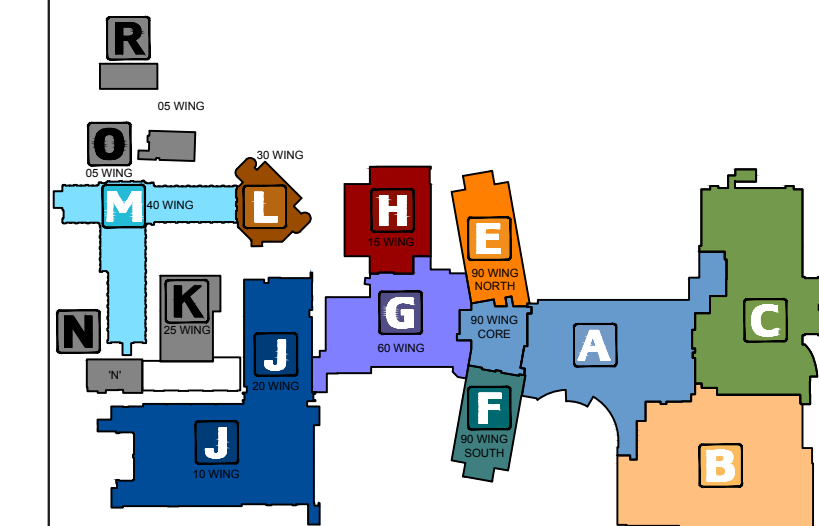
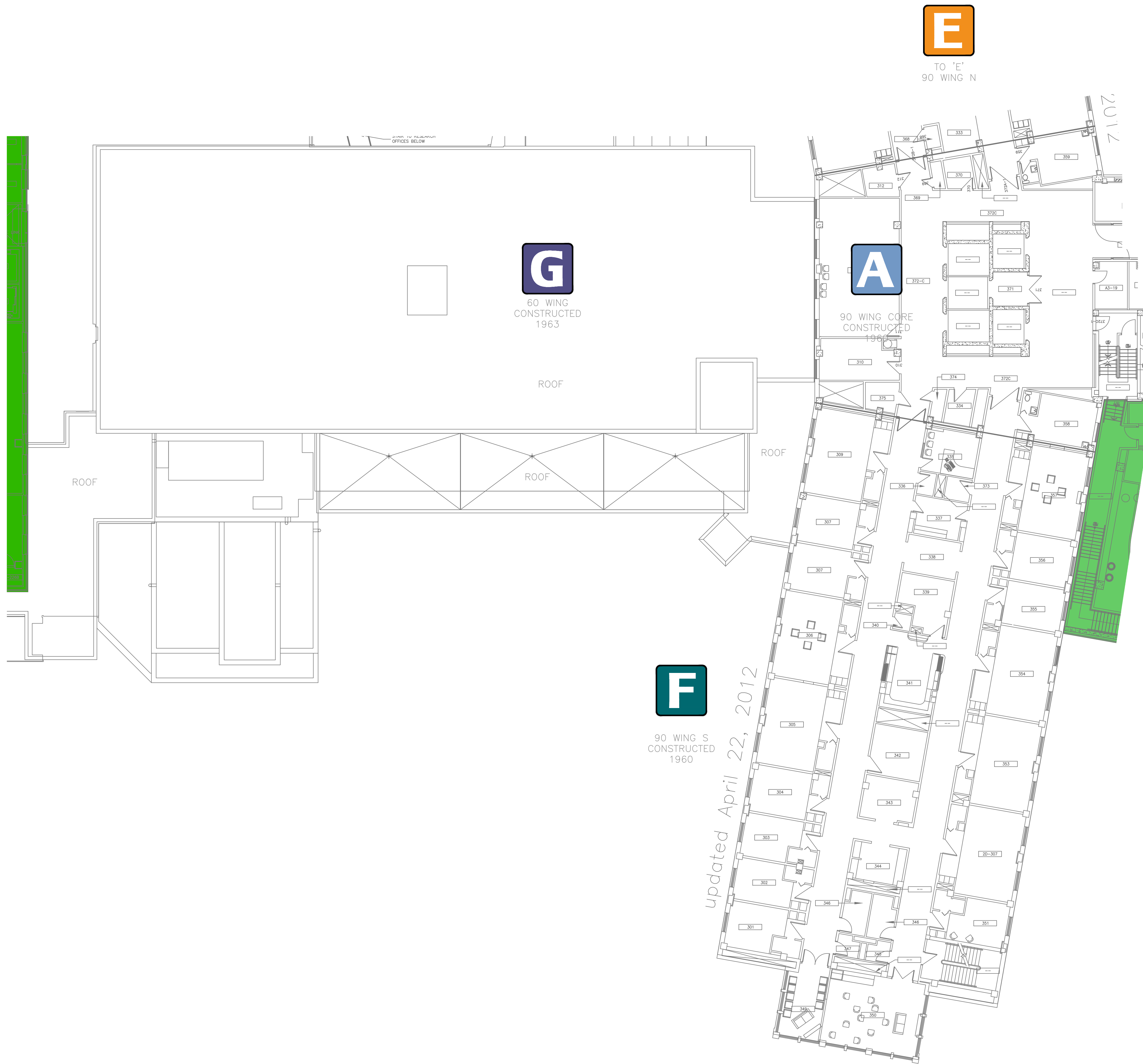
JURAVINSKI SITE

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS: LEVEL 3 SECTION 'A', 'F', AND 'G' ACM CEILING

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 17420030 RA-05 Floor Level 3 Juravinski
DRAWING No.	

AFG-RA05C



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
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10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND - OTHER

PI	ACM PIPE INSULATION
DI	ACM DUCT INSULATION
MI	ACM MECHANICAL INSULATION
T1	TYPE 1 ENTRY
T2	TYPE 2 ENTRY
T3	TYPE 3 ENTRY
TF	ACM TEXTURE FINISH
FS	ACM FIRESTOPPING
T	TRANSITE
NAR	NO ACCESS TO ROOM/AREA

JURAVINSKI SITE



PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

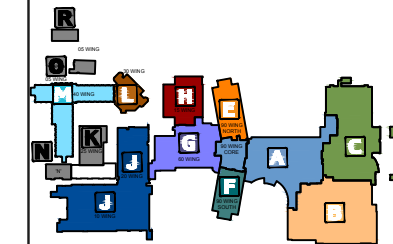
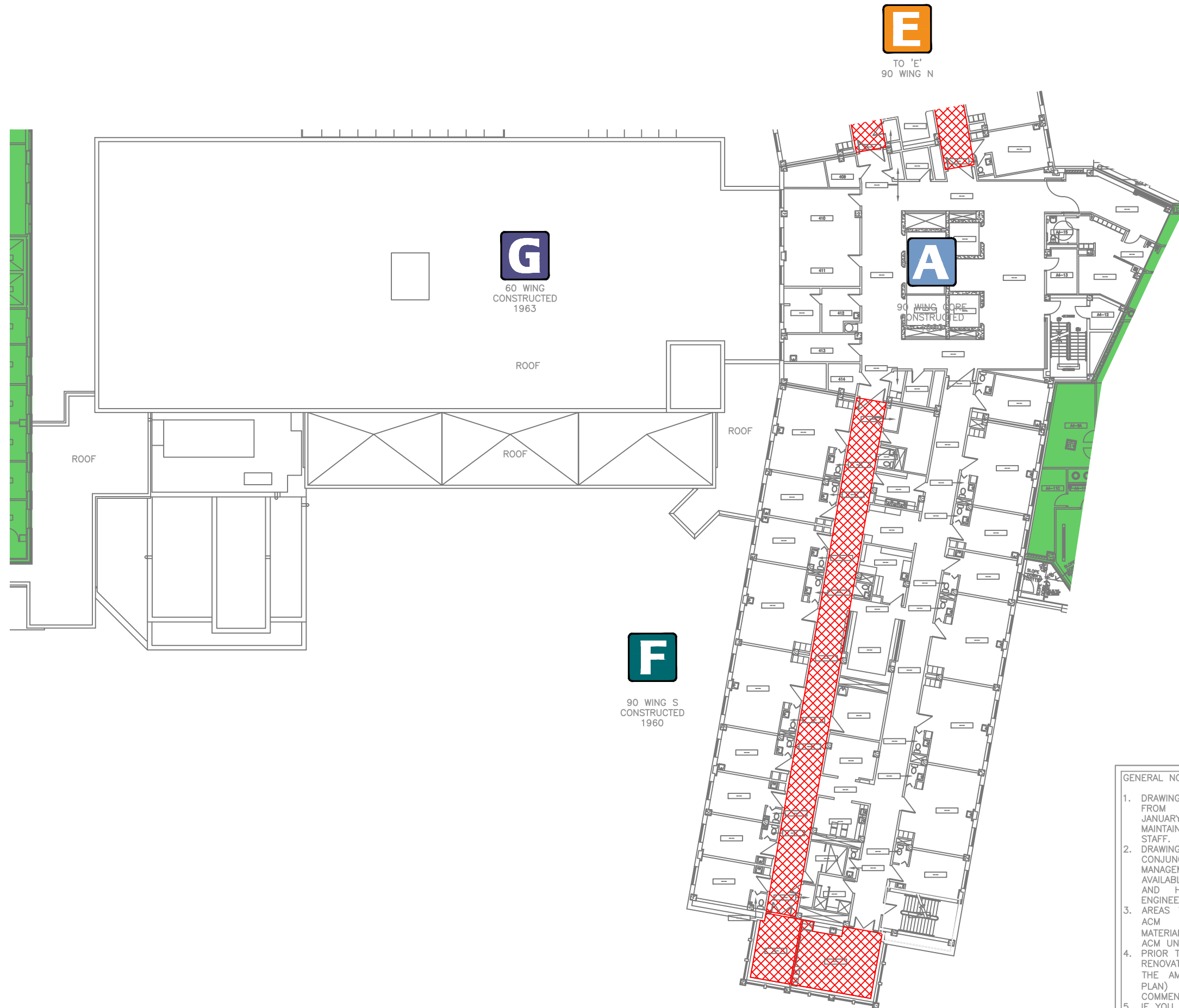
DRAWING: LEVEL 3 SECTION 'A', 'F', AND 'G' ACM OTHER

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE: 1425030 RA-05 Floor Level 3 Juravinski
DRAWING No.	

AFG-RA05D

GENERAL NOTES:

1. DRAWINGS HAVE BEEN CONVERTED FROM A CONTRACTED SOURCE JANUARY 2013 AND WILL BE MAINTAINED BY HHS ENGINEERING STAFF.
2. DRAWINGS SHALL BE READ IN CONJUNCTION WITH HHS ASBESTOS MANAGEMENT PLAN AND SURVEYS AVAILABLE ON THE HHS INTRANET, AND HARDCOPY IN THE SITES ENGINEERING DEPT.
3. AREAS WITHOUT A DESIGNATION OF ACM (ASBESTOS CONTAINING MATERIAL) SHALL BE TREATED AS ACM UNTIL PROVEN OTHERWISE. PRIOR TO UNDERTAKING ANY REPAIR RENOVATION OR DEMOLITION, REVIEW THE AMP (ASBESTOS MANAGEMENT PLAN) AND SURVEY PRIOR TO COMMENCEMENT OF WORK.
4. IF YOU SUSPECT A MATERIAL TO BE FREE OF ACM, CONTACT THE ASBESTOS COORDINATOR FOR CONSULTATION.



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4	4/1/2013		REVIEWED WITHOUT REVISION	GS
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11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:**
- ACM VINYL FLOOR TILES
 - ACM VINYL SHEET FLOORING
 - NO ACCESS TO ROOM/AREA
 - ACM FREE OR ABATED AREAS AS PER HHS RECORDS

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JURAVINSKI SITE

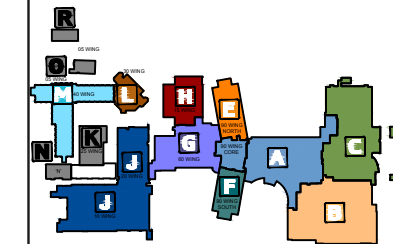
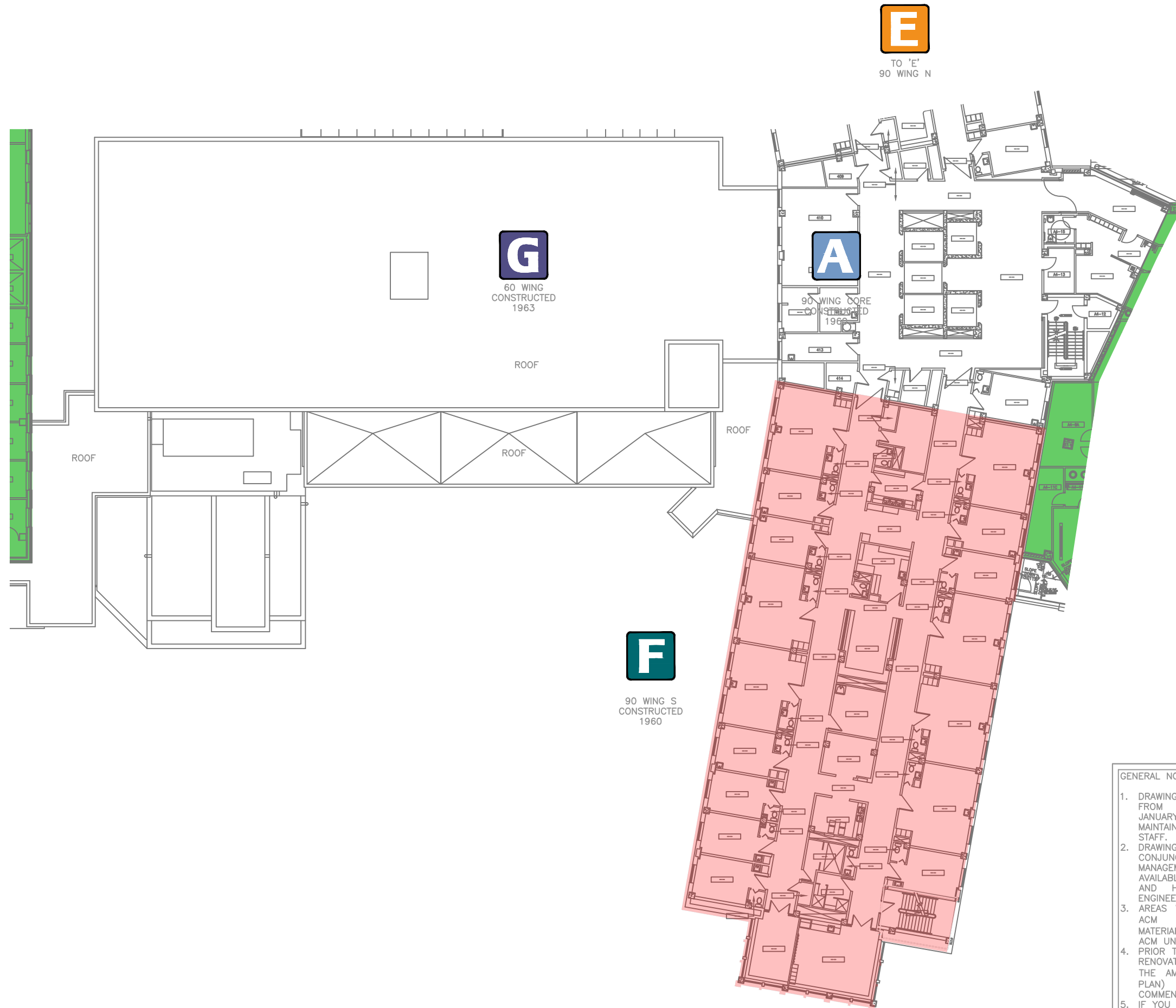
Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS: LEVEL 4 SECTION 'A', 'F', AND 'G' ACM ON FLOOR

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 1720030 RA-06 Floor Level 4 Juravinski
DRAWING No.	

AFG-RA06A



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
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10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND:

- ACM PLASTER WALLS
- SUSPECT ACM
- NO ACM PRESENT
- ACM ABATED AREAS AS PER HHS RECORDS

GENERAL NOTES:

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JURAVINSKI SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

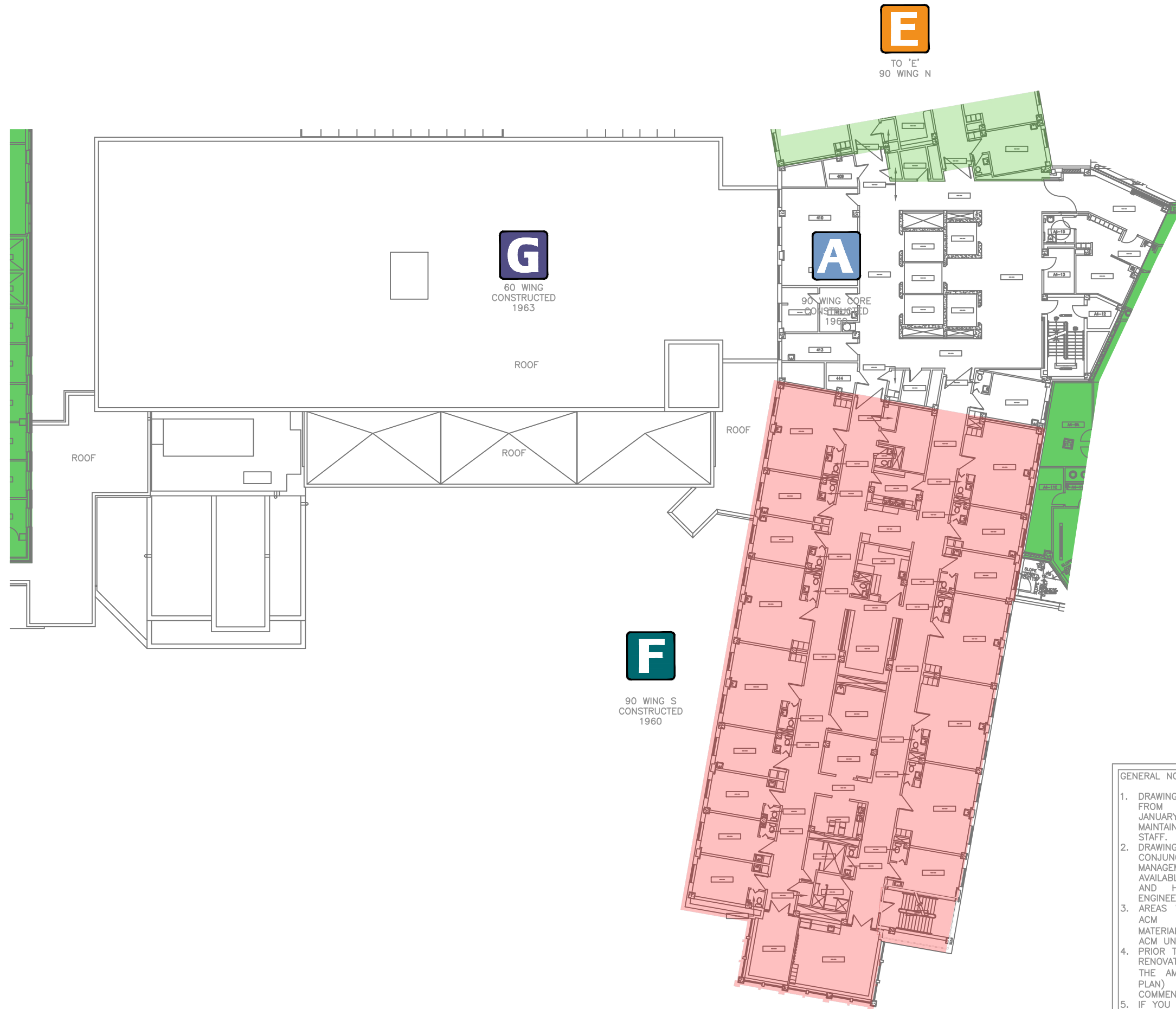
PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING: LEVEL 4 SECTION 'A', 'F', AND 'G' ACM WALLS

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 17420030 RA-06 Floor Level 4 Juravinski
DRAWING No.	

AFG-RA06B

SHEET SIZE = ARCH 'D' - 24" x 36" (METER) - 610mm x 914mm (METRIC)

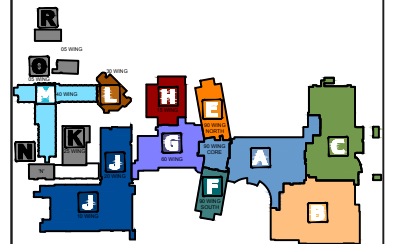


E
TO 'E'
90 WING N

G
60 WING
CONSTRUCTED
1963

A
90 WING CORE
CONSTRUCTED
1966

F
90 WING S
CONSTRUCTED
1960



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
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12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:
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 - SUSPECT ACM
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JURAVINSKI SITE

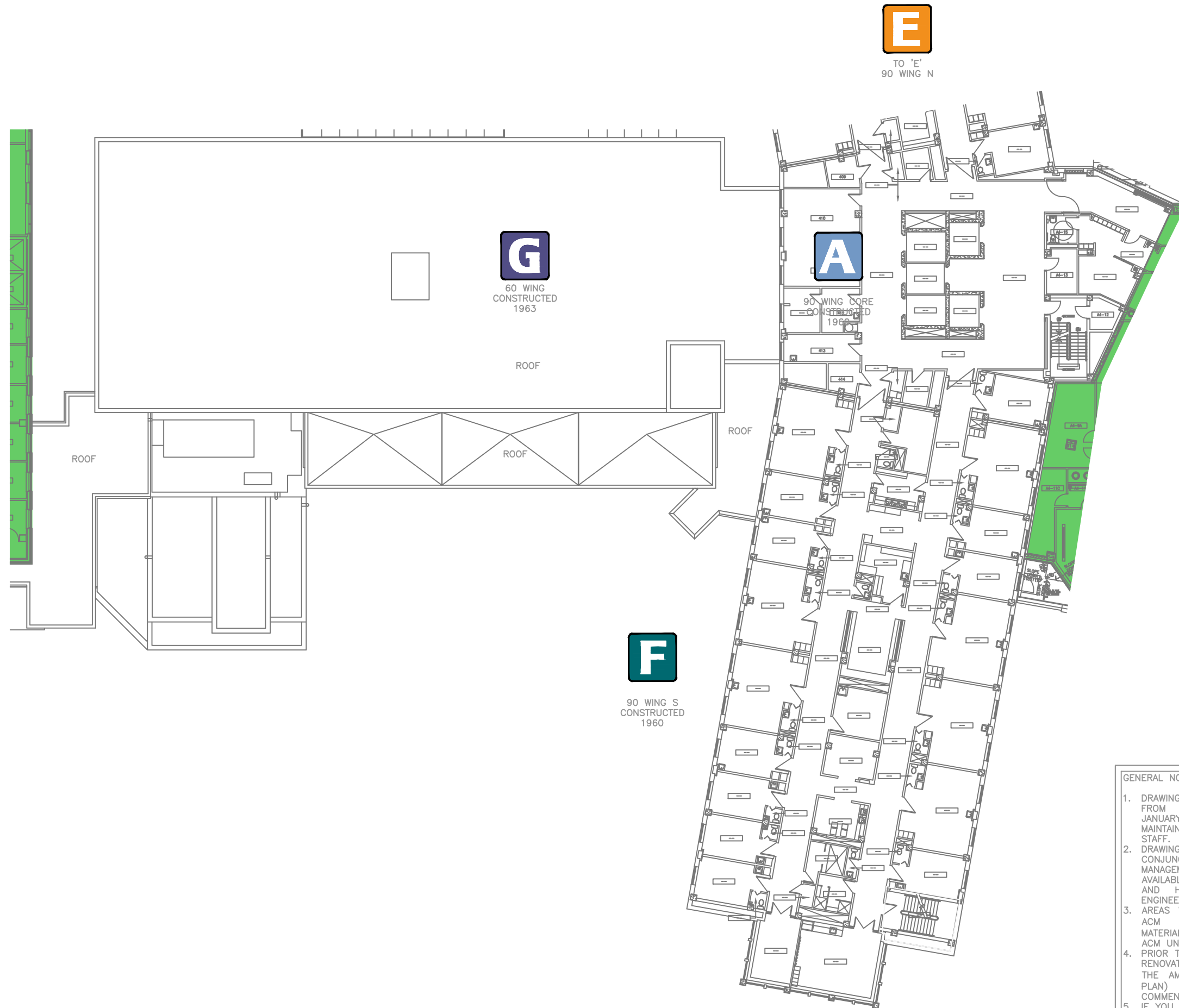
Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS: LEVEL 4 SECTION 'A', 'F', AND 'G' ACM CEILING

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 1720030 RA-06 Floor Level 4 Juravinski
DRAWING No.	

AFG-RA06C

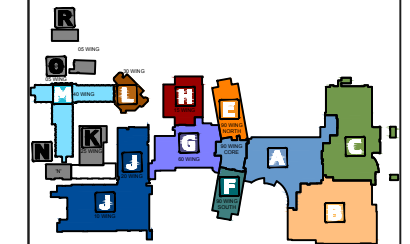


E
TO 'E'
90 WING N

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CONSTRUCTED
1963

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90 WING CORE
CONSTRUCTED
1966

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90 WING S
CONSTRUCTED
1960



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
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12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND - OTHER

PI	ACM PIPE INSULATION
DI	ACM DUCT INSULATION
MI	ACM MECHANICAL INSULATION
T1	TYPE 1 ENTRY
T2	TYPE 2 ENTRY
T3	TYPE 3 ENTRY
TF	ACM TEXTURE FINISH
FS	ACM FIRESTOPPING
T	TRANSITE
NAR	NO ACCESS TO ROOM/AREA

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JURAVINSKI SITE

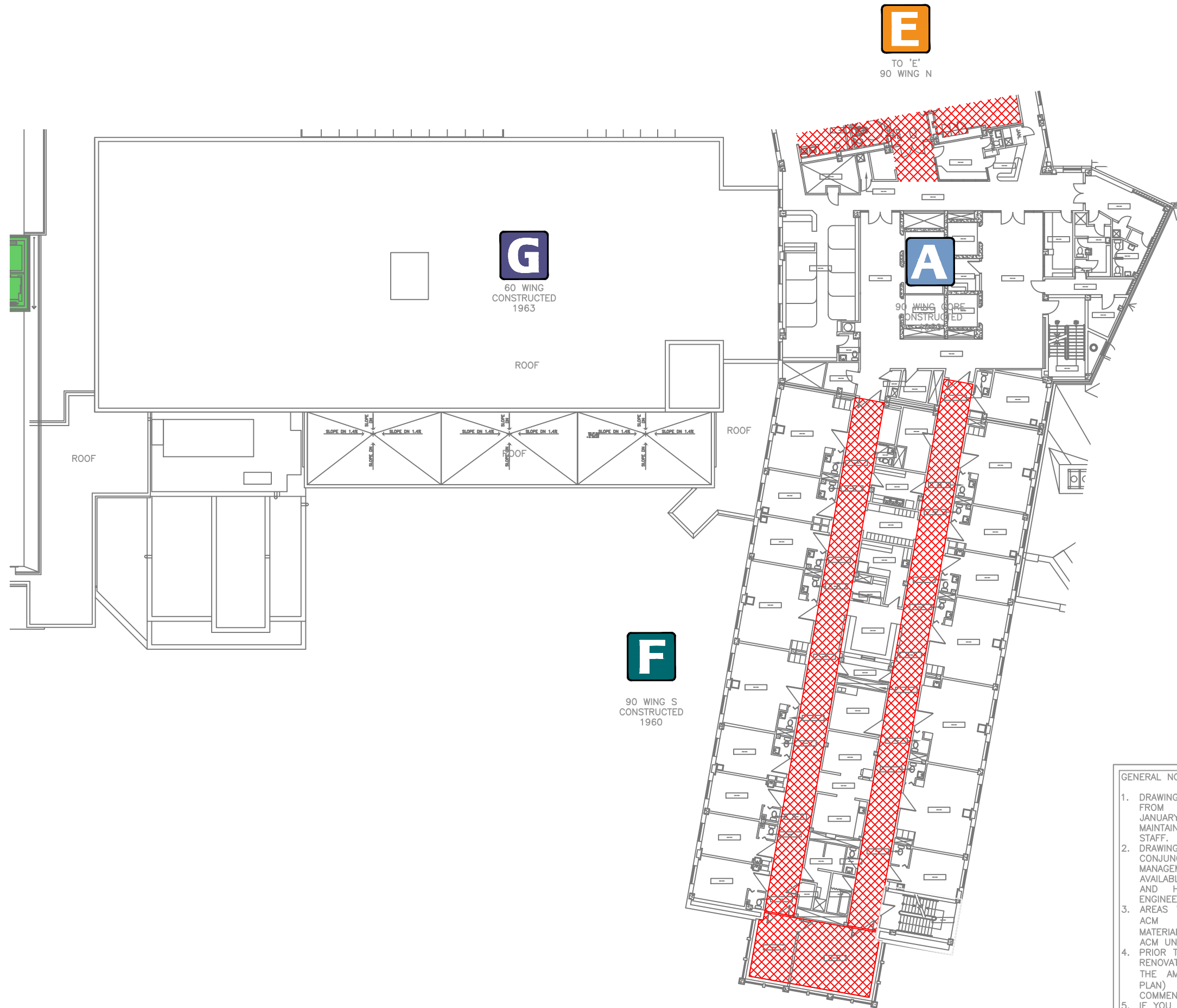
Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS: LEVEL 4 SECTION 'A', 'F', AND 'G' ACM OTHER

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 17420030 RA-06 Floor Level 4 Juravinski
DRAWING No.	

AFG-RA06D

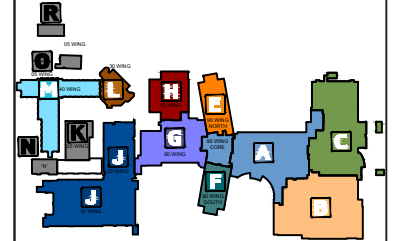


E
TO 'E'
90 WING N

G
60 WING
CONSTRUCTED
1963

A
90 WING CORE
CONSTRUCTED
1963

F
90 WING S
CONSTRUCTED
1960



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
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2	2/1/2013		UPDATED	GS
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12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
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- LEGEND:**
- ACM VINYL FLOOR TILES
 - ACM VINYL SHEET FLOORING
 - NO ACCESS TO ROOM/AREA
 - ACM FREE OR ABATED AREAS AS PER HHS RECORDS

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JURAVINSKI SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS:
LEVEL 5
SECTION 'A', 'F', AND 'G'
ACM ON FLOOR

SCALE:
N.T.S.

DRAWN BY:
GEOFF SCHWARZ

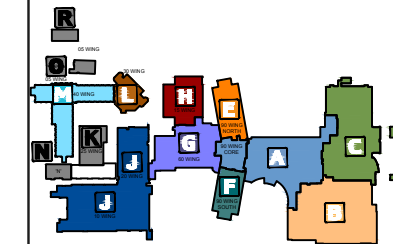
FILE NAME:
1720030 RA-07 Floor Level 5 Juravinski

DEPARTMENT:
ENGINEERING

SUPERVISOR:
GEOFF SCHWARZ

DRAWING No.:
AFG-RA07A

AFG-RA07A



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
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12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:**
- ACM PLASTER WALLS
 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

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JURAVINSKI SITE

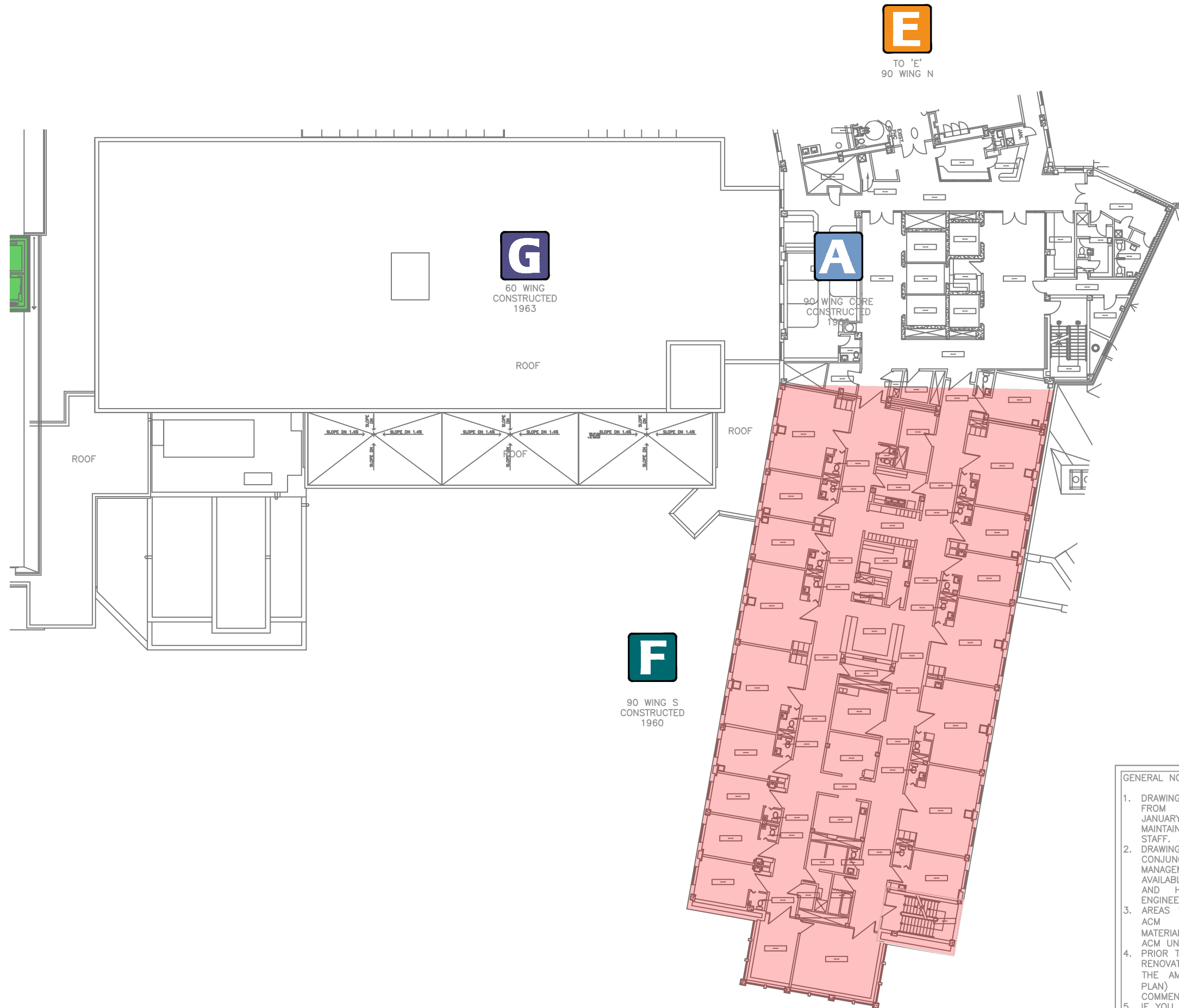
FACILITIES MANAGEMENT

PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS:
LEVEL 5
SECTION 'A', 'F', AND 'G'
ACM WALLS

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 1720030 RA-07 Floor Level 5 Juravinski
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AFG-RA07B

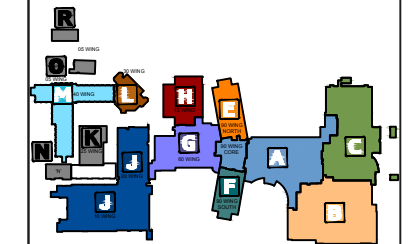


E
TO 'E'
90 WING N

G
60 WING
CONSTRUCTED
1963

A
90 WING CORE
CONSTRUCTED
1963

F
90 WING S
CONSTRUCTED
1960



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
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2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:
- ACM ROUGH PLASTER AND/OR PLASTER CEILING
 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

- GENERAL NOTES:
- DRAWINGS HAVE BEEN CONVERTED FROM A CONTRACTED SOURCE JANUARY 2013 AND WILL BE MAINTAINED BY HHS ENGINEERING STAFF.
 - DRAWINGS SHALL BE READ IN CONJUNCTION WITH HHS ASBESTOS MANAGEMENT PLAN AND SURVEYS AVAILABLE ON THE HHS INTRANET, AND HARDCOPY IN THE SITES ENGINEERING DEPT.
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 - IF YOU SUSPECT A MATERIAL TO BE ACM IN AN AREA SHOWN TO BE FREE OF ACM, CONTACT THE ASBESTOS COORDINATOR FOR CONSULTATION.

JURAVINSKI SITE

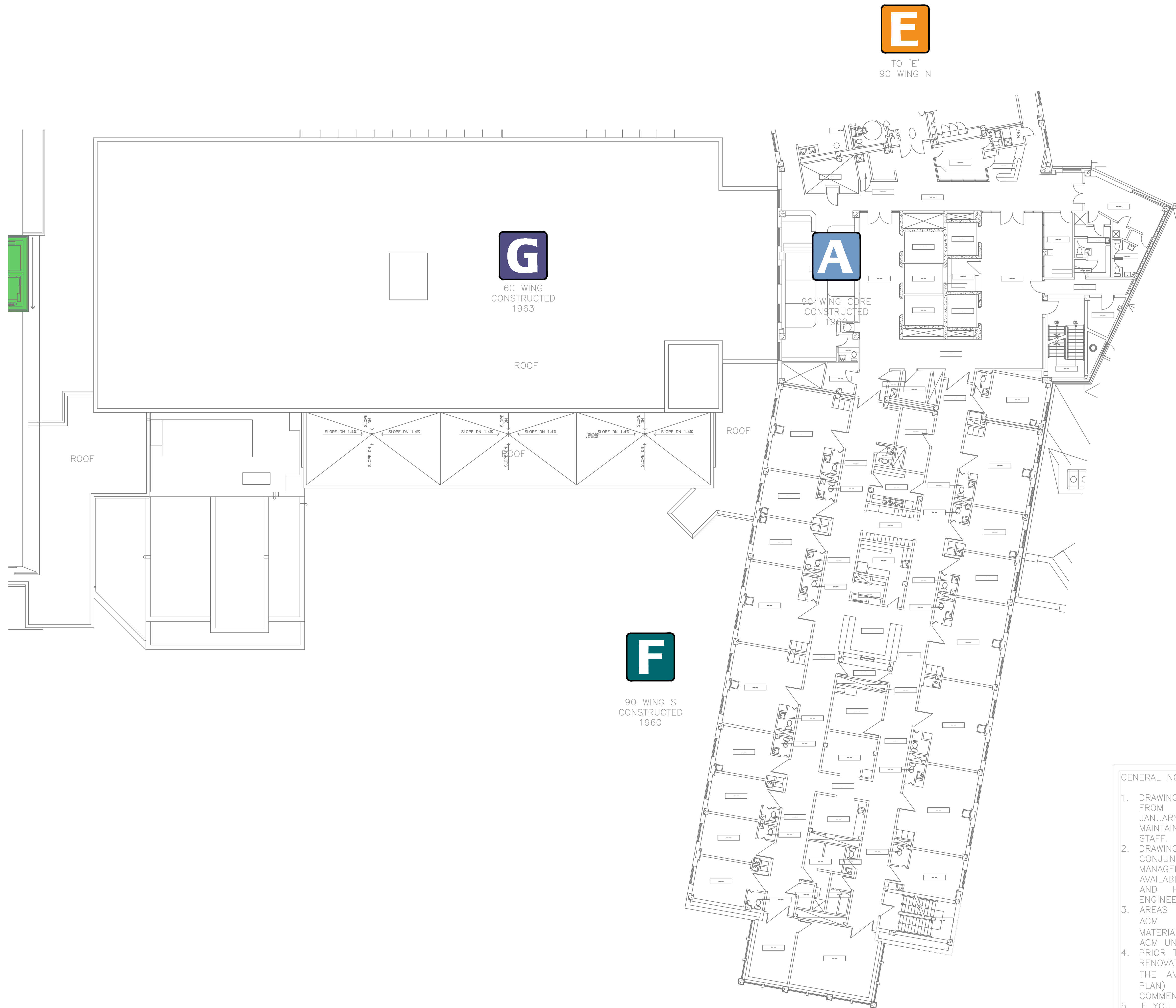
Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS: LEVEL 5 SECTION 'A', 'F', AND 'G' ACM CEILING

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 17420030 RA-07 Floor Level 5 Juravinski
DRAWING No.	

AFG-RA-07C

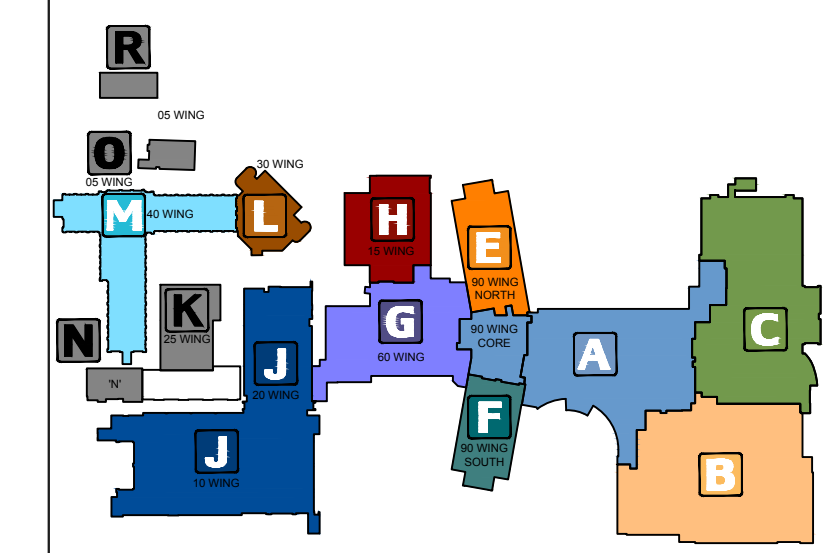


E
TO 'E'
90 WING N

G
60 WING
CONSTRUCTED
1963

A
90 WING CORE
CONSTRUCTED
1992

F
90 WING S
CONSTRUCTED
1960



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
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9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND - OTHER

PI	ACM PIPE INSULATION
DI	ACM DUCT INSULATION
MI	ACM MECHANICAL INSULATION
T1	TYPE 1 ENTRY
T2	TYPE 2 ENTRY
T3	TYPE 3 ENTRY
TF	ACM TEXTURE FINISH
FS	ACM FIRESTOPPING
T	TRANSITE
NAR	NO ACCESS TO ROOM/AREA

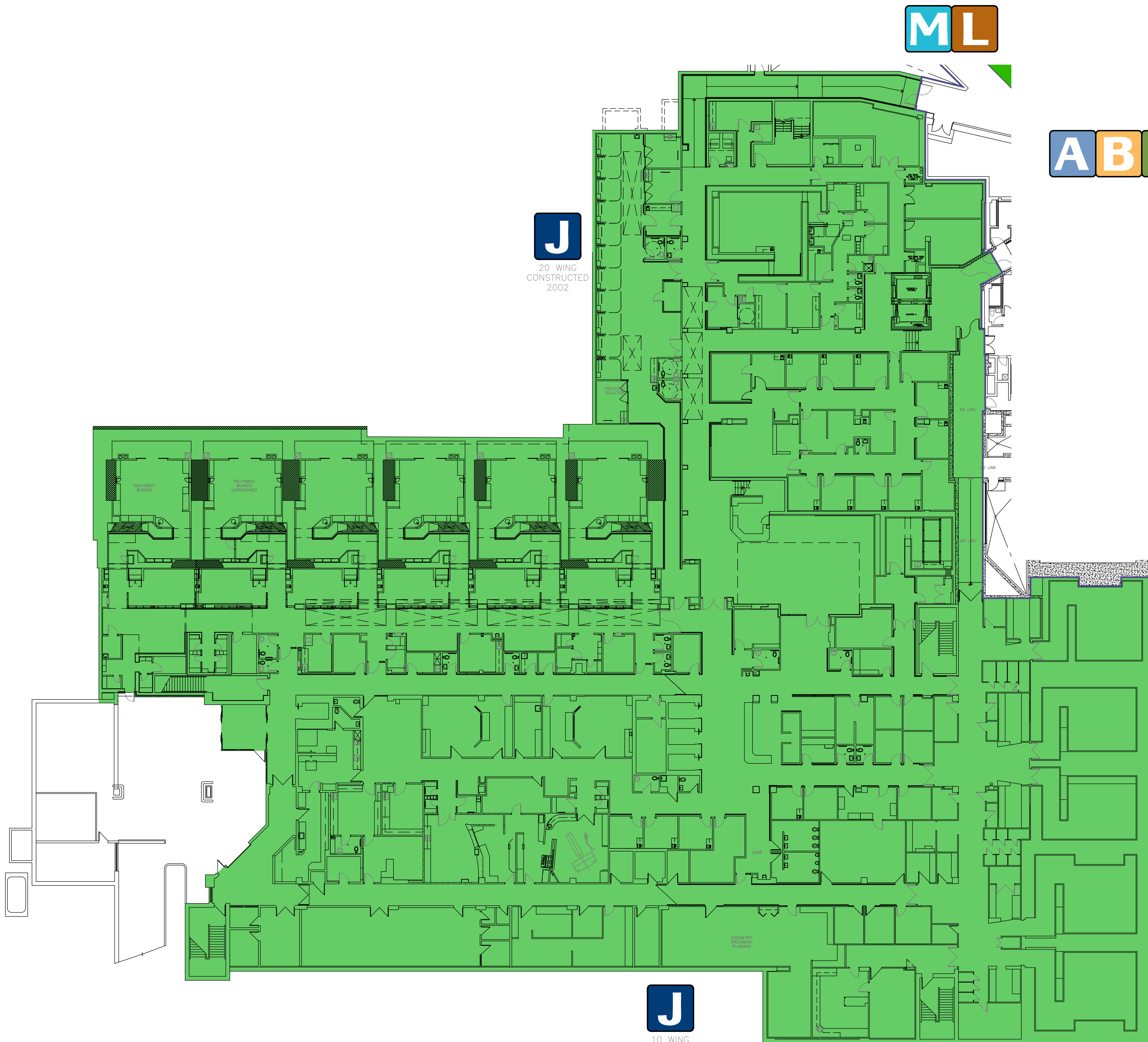
- GENERAL NOTES:
- DRAWINGS HAVE BEEN CONVERTED FROM A CONTRACTED SOURCE JANUARY 2013 AND WILL BE MAINTAINED BY HHS ENGINEERING STAFF.
 - DRAWINGS SHALL BE READ IN CONJUNCTION WITH HHS ASBESTOS MANAGEMENT PLAN AND SURVEYS AVAILABLE ON THE HHS INTRANET, AND HARDCOPY IN THE SITES ENGINEERING DEPT.
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JURAVINSKI SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY	
DRAWING: LEVEL 5 SECTION 'A', 'F', AND 'G' ACM OTHER	
PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NO: 1425030 RA-07 Floor Level 5 Juravinski
DRAWING No.	

AFG-RA07D



M L

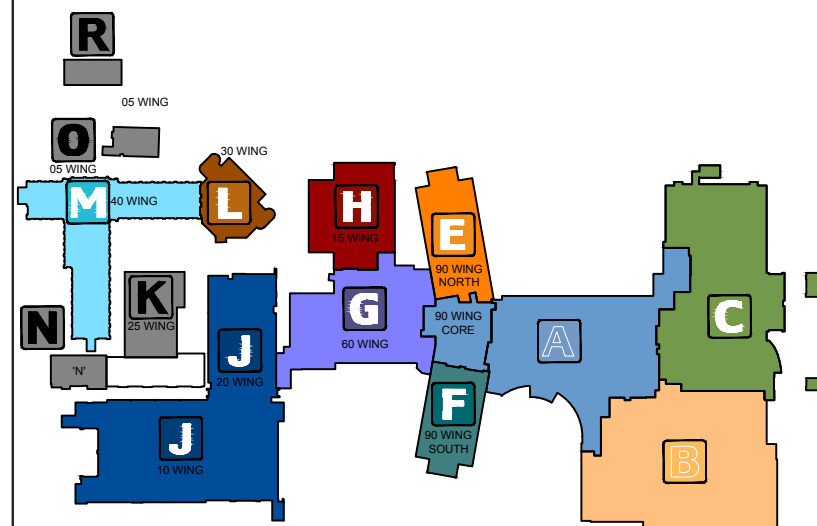
A B C E F G

J

20 WING
CONSTRUCTED
2002

J

10 WING
CONSTRUCTED
1992



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	2/1/2013		UPDATED	GS
2	3/1/2013		UPDATED	GS
3	4/1/2013		REVIEWED WITHOUT REVISION	GS
4	5/1/2013		REVIEWED WITHOUT REVISION	GS
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6	7/1/2013		REVIEWED WITHOUT REVISION	GS
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9	10/1/2013		REVIEWED WITHOUT REVISION	GS
10	11/1/2013		REVIEWED WITHOUT REVISION	GS
11	3/31/2016		UPDATED BY ECOH	MM
12	6/15/2017		UPDATED BY ECOH	JK
13	11/2/2018		UPDATED BY PINCHIN LIMITED	JB

LEGEND:
 ACM FREE OR ABATED AREAS AS PER HHS RECORDS

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JURAVINSKI SITE



PROJECT:
 JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

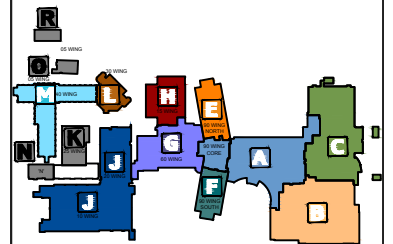
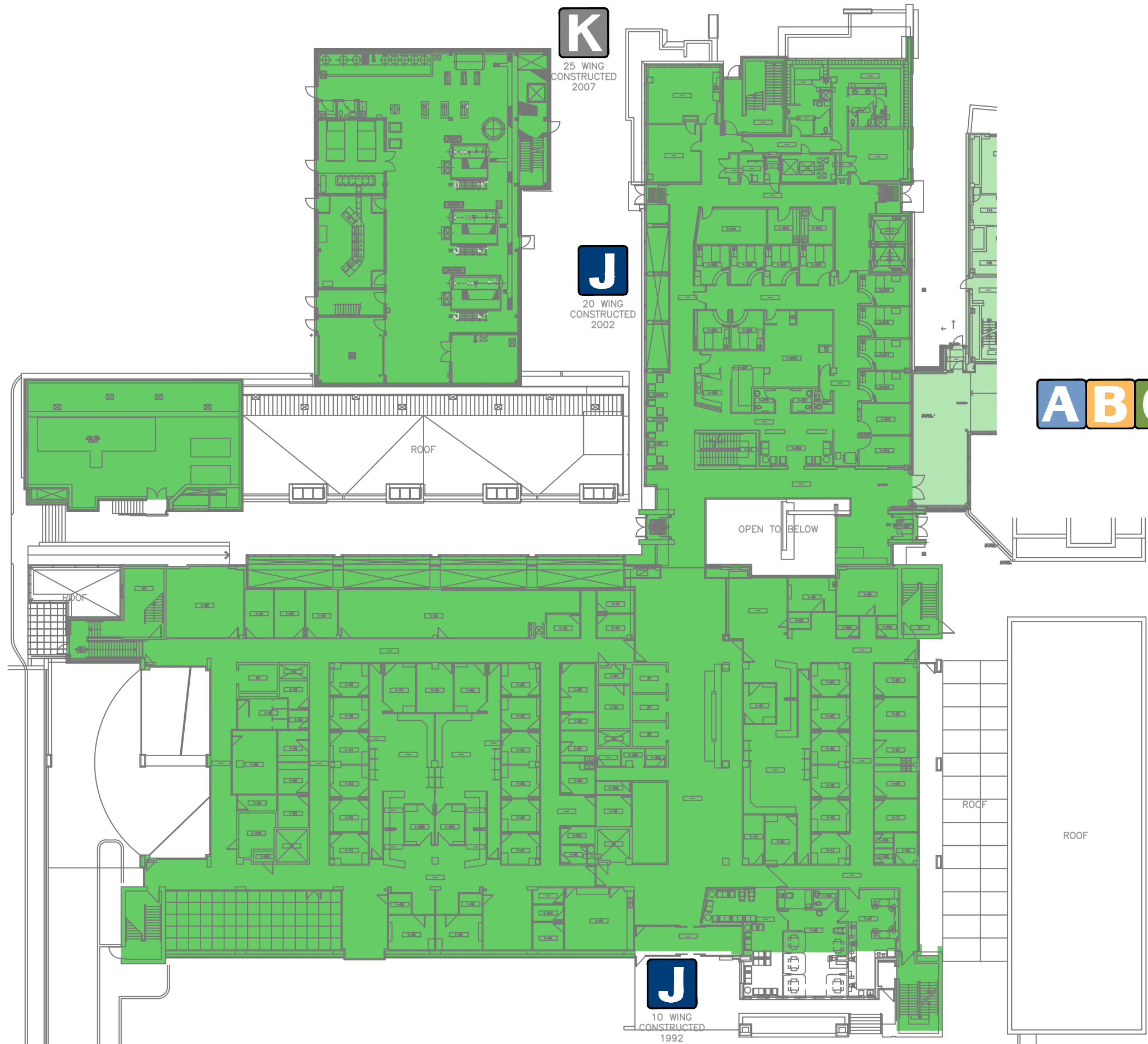
DRAWING:
 LEVEL 0 SECTIONS 'J10' AND 'J20' ACM FREE

PLOT DATE: NOVEMBER 2018	DEPARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MADIRANA
DRAWN BY: JORDAN BOULOS	FILE #: 2018030 RA-02 Floor Level 0 Juravinski
DRAWING No.:	

J-RA-02

SHEET SIZE = ARCH 'D' - 24" x 36" (METERIAL) = 610mm x 914mm (METRIC)

SHEET SIZE = ARCH D - 24" x 36" (IMPERIAL) - 610mm x 914mm (METRIC)




KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
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8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND:
 ACM FREE OR ABATED AREAS AS PER HHS RECORDS

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JURAVINSKI SITE



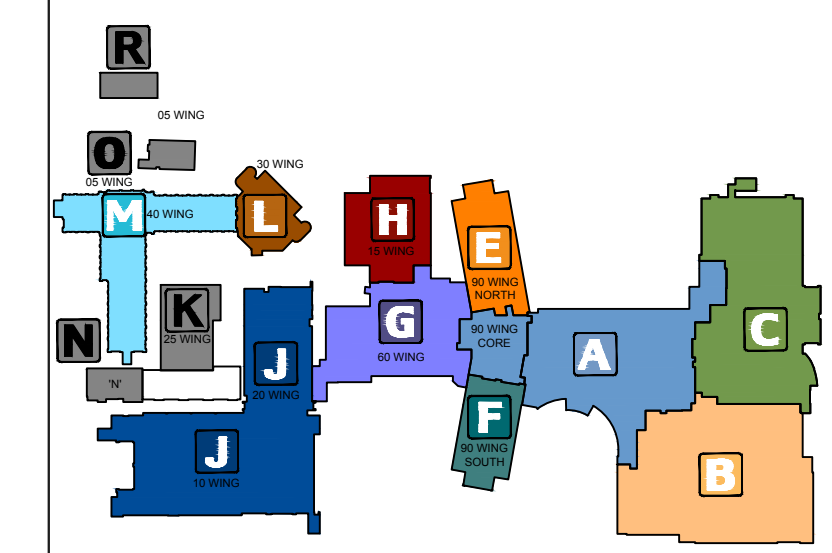
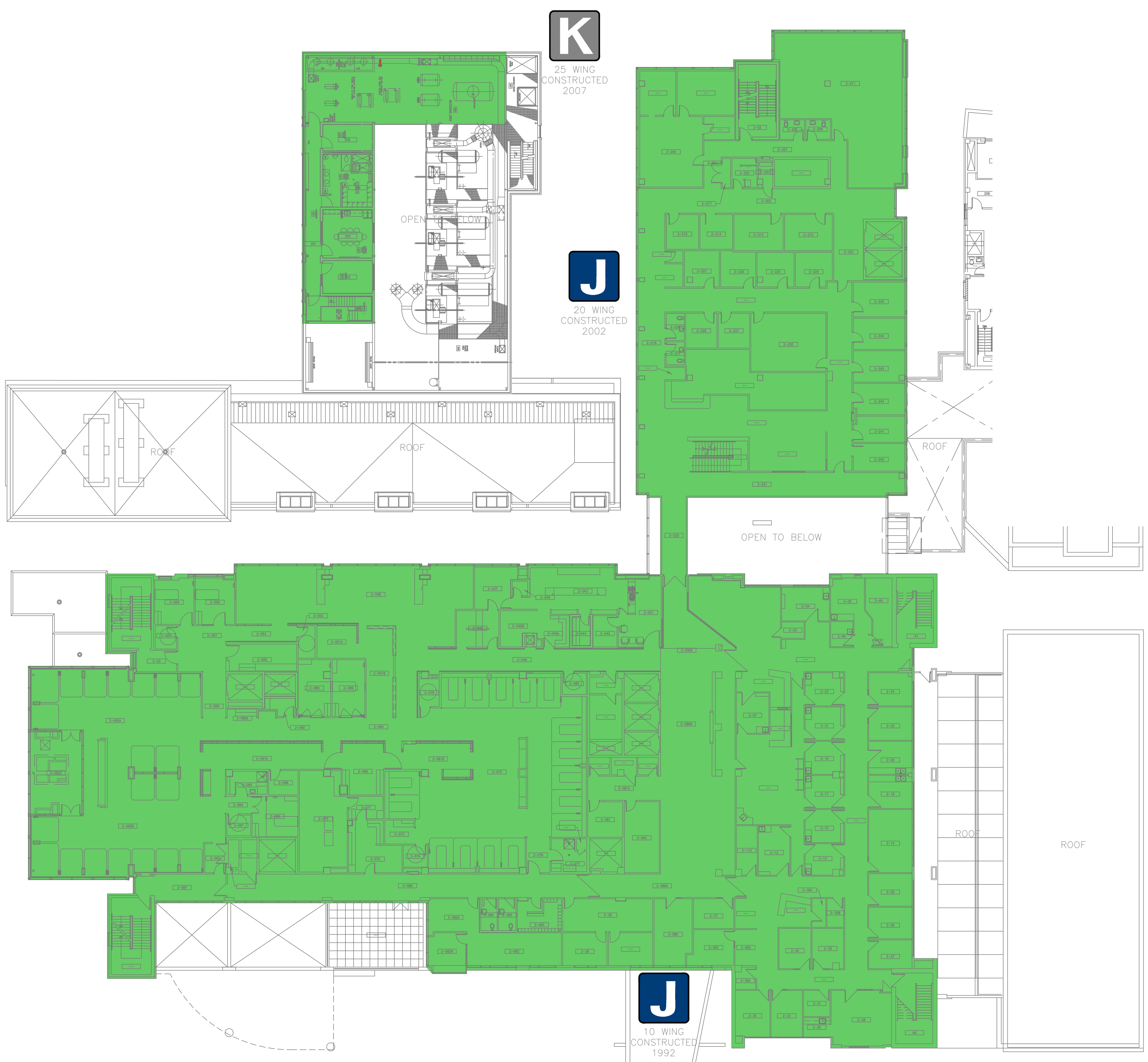
Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS:
LEVEL 1 SECTIONS 'J10' AND 'J20' ACM FREE

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 17202030 RA-03 Floor Level 1 Juravinski
DRAWING NO.:	

J-RA-03



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
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6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND:
 ACM FREE OR ABATED AREAS AS PER HHS RECORDS

GENERAL NOTES:

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JURAVINSKI SITE

Hamilton Health Sciences
 FACILITIES MANAGEMENT

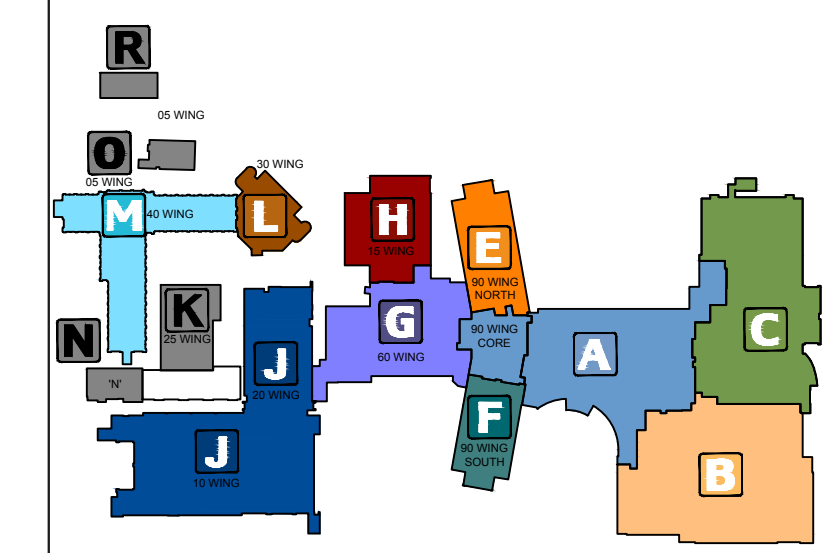
PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING: LEVEL 2 SECTIONS 'J10' AND 'J20' ACM FREE

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE #: 1925030 RA-04 Floor Level 2 Juravinski

J-RA-04

SHEET SIZE = ARCH 'D' = 24" x 36" (METERIAL) = 610mm x 914mm (METRIC)




KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND:
 ACM FREE OR ABATED AREAS AS PER HHS RECORDS

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JURAVINSKI SITE



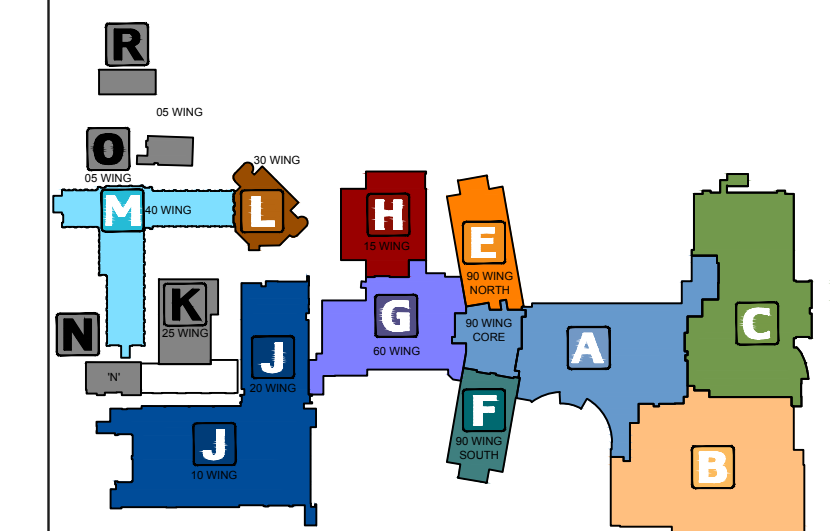
Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING: LEVEL 3 SECTIONS 'J10' AND 'J20' ACM FREE

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NO: 1920030 RA-05 Floor Level 3 Juravinski
DRAWING No.	J-RA-05

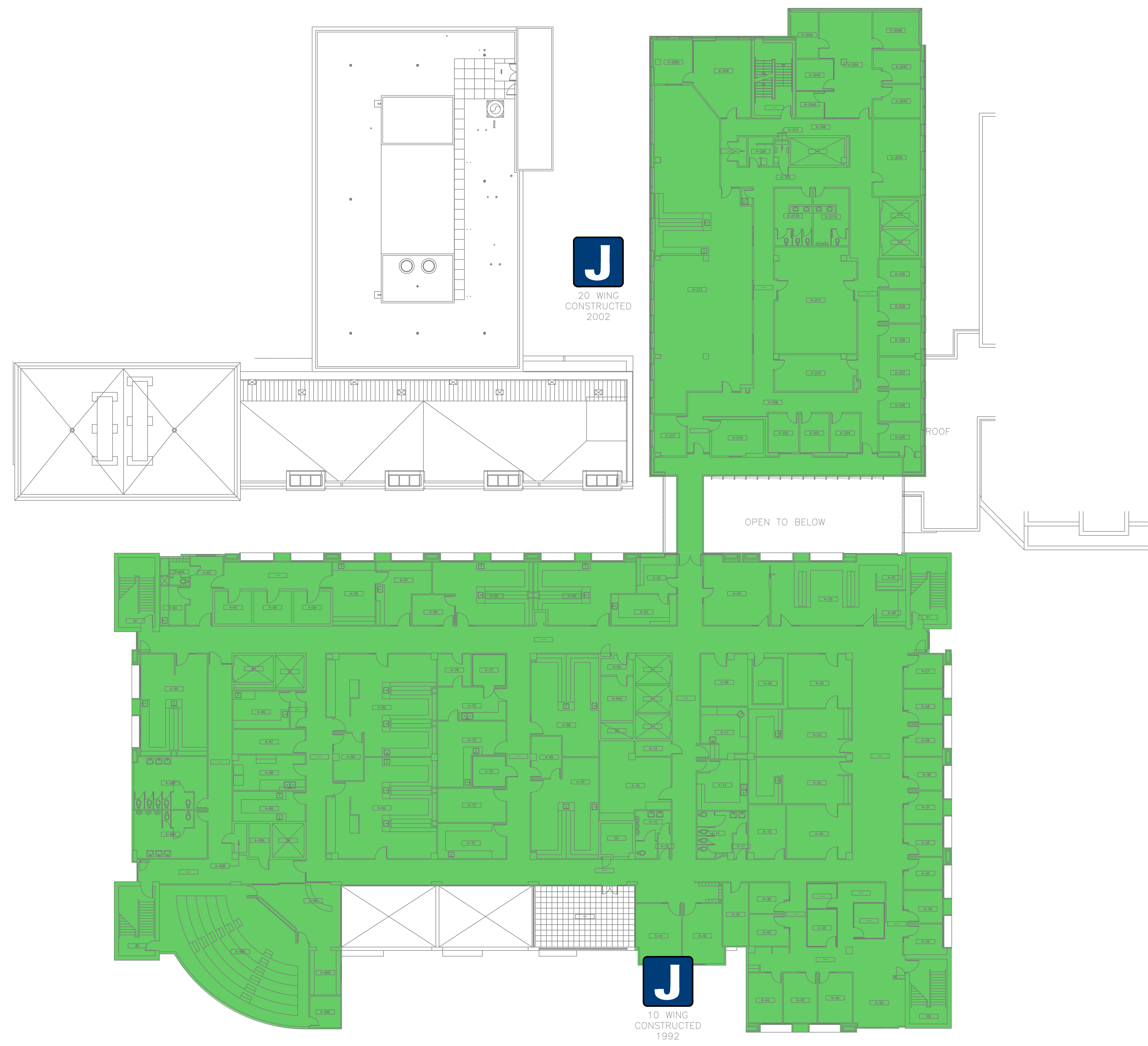
SHEET SIZE = ARCH 'D' - 24" x 36" (METER) = 610mm x 914mm (METRIC)



KEY PLAN N.T.S.

NO.	DATE M/D/Y	REVISIONS	BY
1	1/1/2013	UPDATED	GS
2	2/1/2013	UPDATED	GS
3	3/1/2013	UPDATED	GS
4	4/1/2013	REVIEWED WITHOUT REVISION	GS
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10	10/1/2013	REVIEWED WITHOUT REVISION	GS
11	11/1/2013	REVIEWED WITHOUT REVISION	GS
12	1/24/2014	REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015	REVISED BY PINCHIN LTD.	

LEGEND:
 ACM FREE OR ABATED AREAS AS PER HHS RECORDS



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JURAVINSKI SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

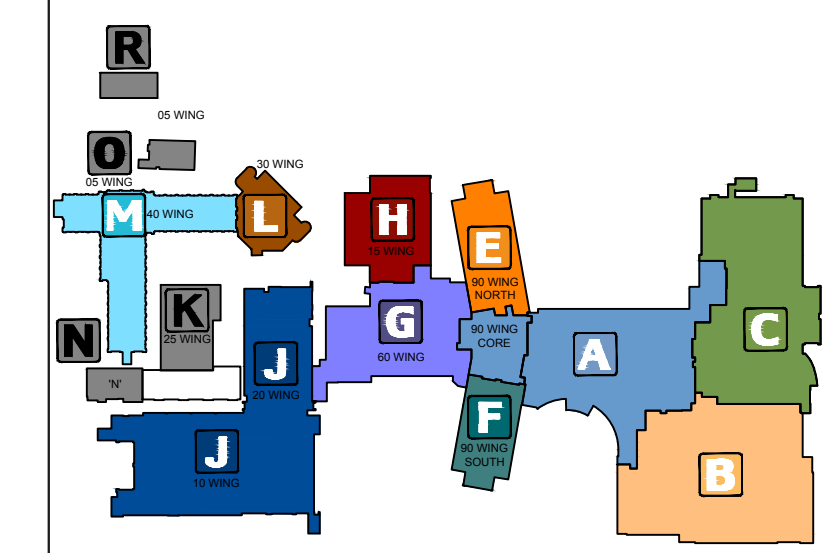
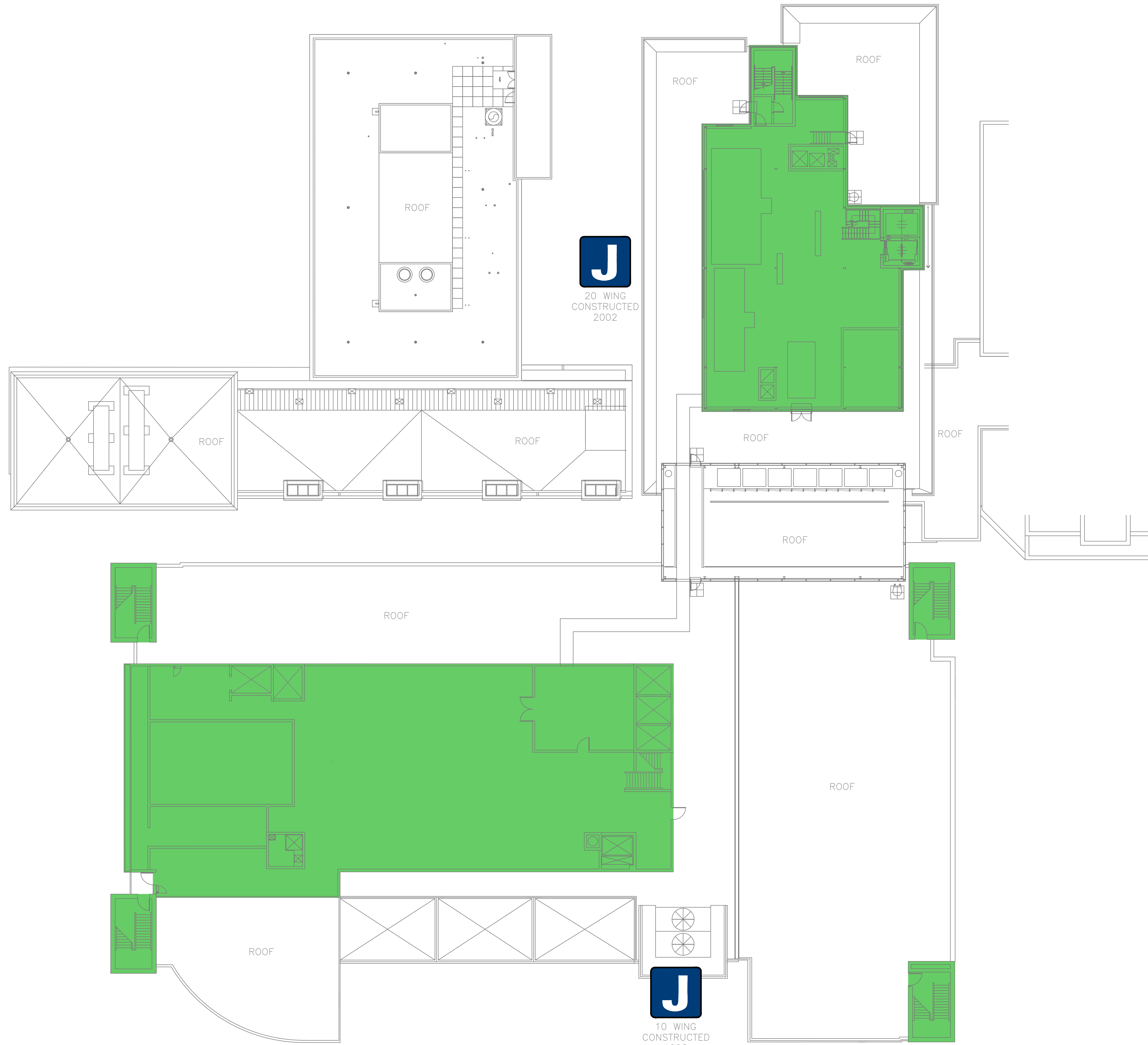
PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING: LEVEL 4 SECTIONS 'J10' AND 'J20' ACM FREE

<small>PLOT DATE:</small>	<small>DEPARTMENT:</small> ENGINEERING
<small>SCALE:</small> N.T.S.	<small>SUPERVISOR:</small> GEOFF SCHWARZ
<small>DRAWN BY:</small> GEOFF SCHWARZ	<small>FILE NAME:</small> 217420:030 RA-06 Floor Level 4 Juravinski
<small>DRAWING No.</small>	

J-RA-06

ET SIZE - ARCH D - 24" x 36" (IMPERIAL) - 610mm x 914mm (METRIC)



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
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9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND:
 ACM FREE OR ABATED AREAS AS PER HHS RECORDS

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JURAVINSKI SITE

Hamilton Health Sciences
 FACILITIES MANAGEMENT

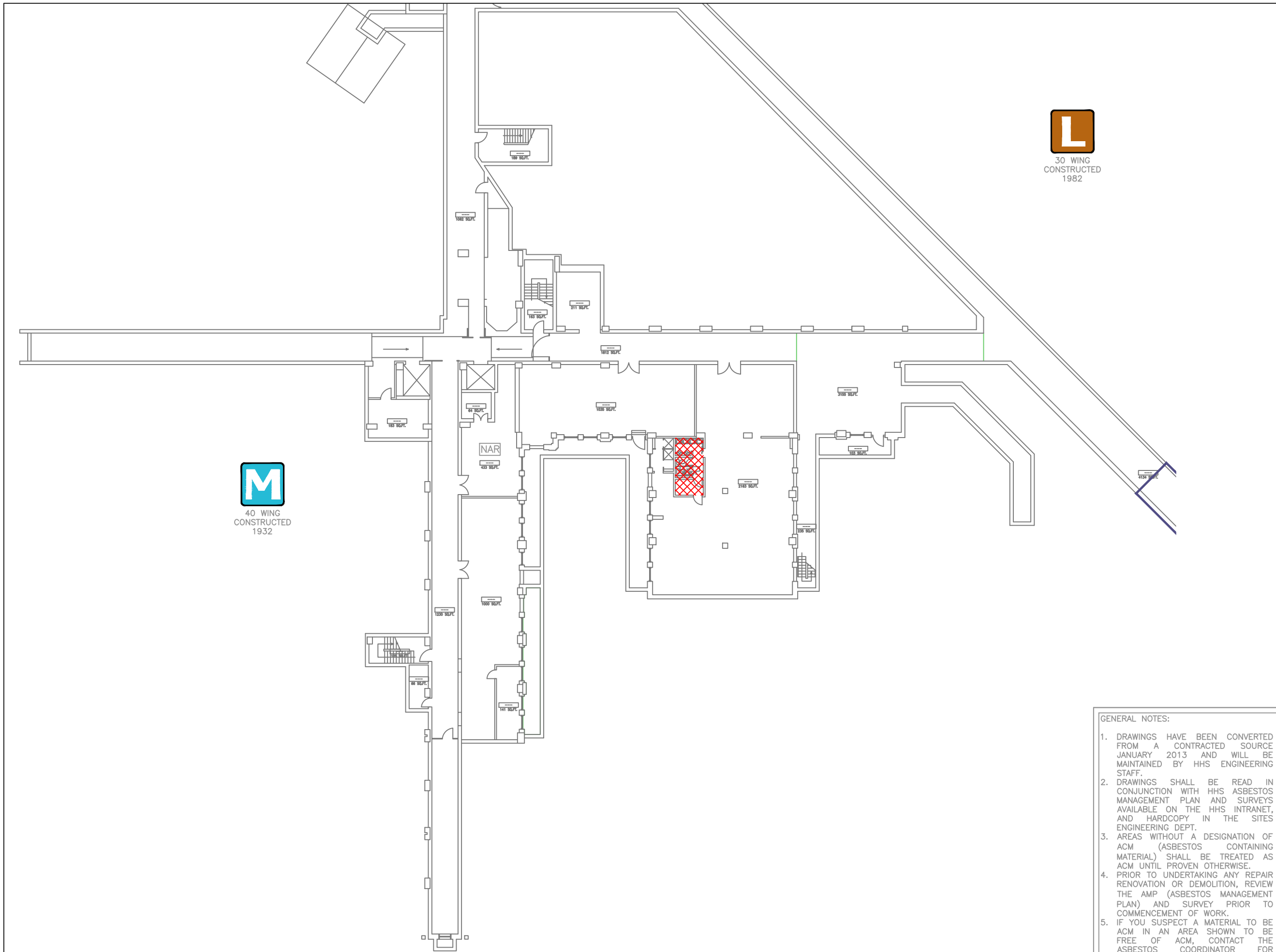
PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING: LEVEL 5 SECTIONS 'J10' AND 'J20' ACM FREE

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE: 1925030 RA-07 Floor Level 5 Juravinski
DRAWING No. J-RA-07	

SHEET SIZE = ARCH 'D' - 24" x 36" (METER) = 610mm x 914mm (METRIC)

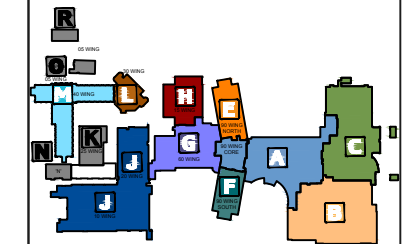
SHEET SIZE = ARCH 'D' - 24" x 36" (610mm x 914mm) (NETING)



30 WING
CONSTRUCTED
1982



40 WING
CONSTRUCTED
1932



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
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10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	2/15/2015		REVISED BY PINCHIN LTD.	

- LEGEND:**
- ACM VINYL FLOOR TILES
 - ACM VINYL SHEET FLOORING
 - NO ACCESS TO ROOM/AREA
 - ACM FREE OR ABATED AREAS AS PER HHS RECORDS

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**JURAVINSKI
SITE**

**Hamilton
Health
Sciences**
FACILITIES MANAGEMENT

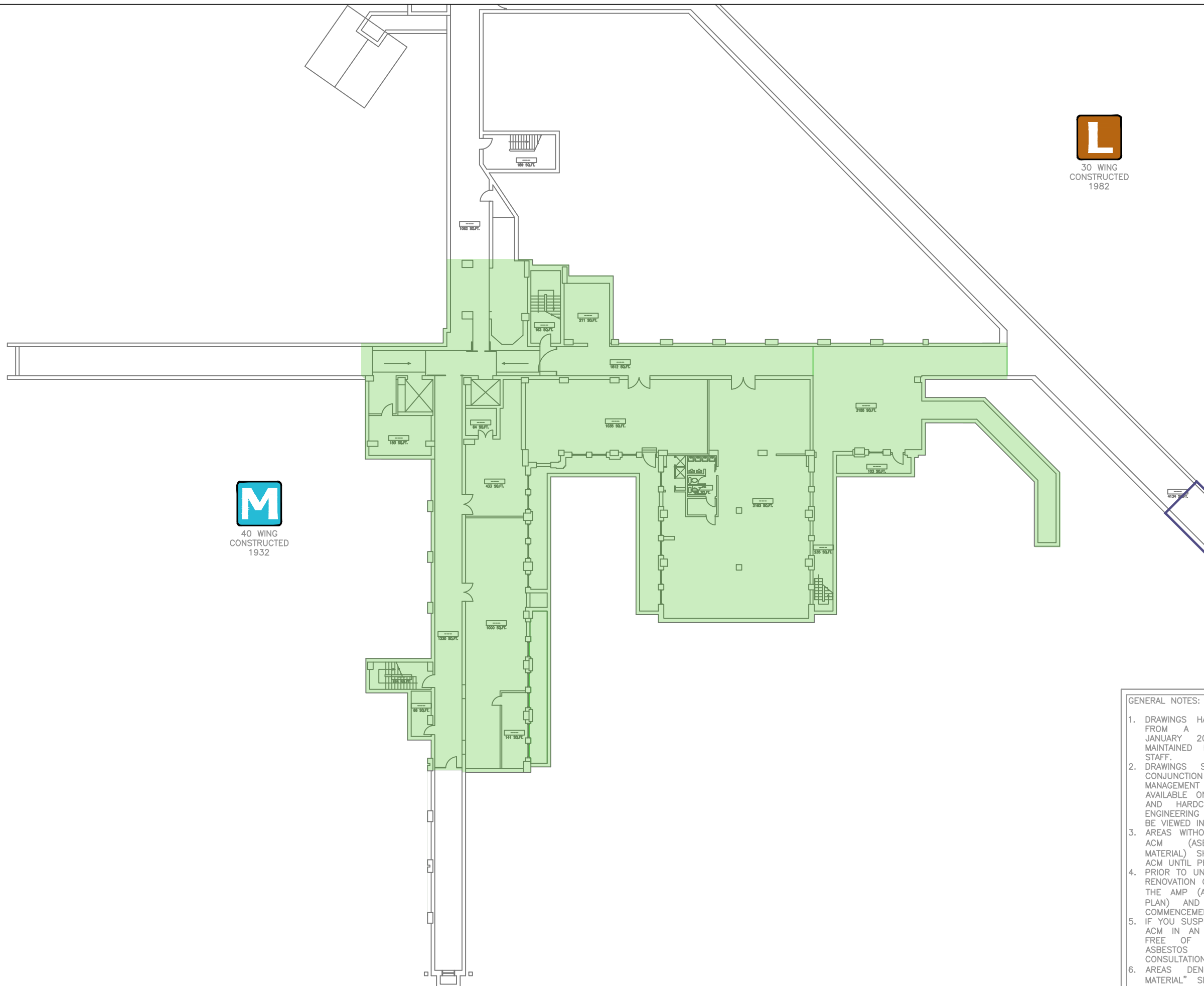
PROJECT:
JURAVINSKI HOSPITAL AND
CANCER CENTER – ASBESTOS
MANAGEMENT PLAN AND SURVEY

DRAWING:
LEVEL B
SECTIONS 'L', 'M', AND 'O'
ACM ON FLOOR

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 21720030 RA-01 Floor Level B Juravinski
DRAWING No.	

LMO-RA01A

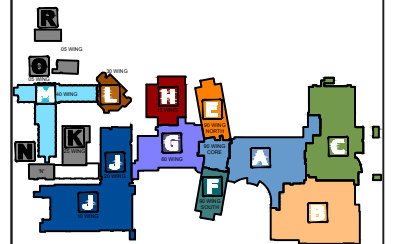
SHEET SIZE = ARCH 'D' - 24" x 36" (METER) = 610mm x 914mm (METRIC)



30 WING
CONSTRUCTED
1982



40 WING
CONSTRUCTED
1932



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:
- ACM PRESENT
 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ADDED AREAS AS PER HHS RECORDS

GENERAL NOTES:

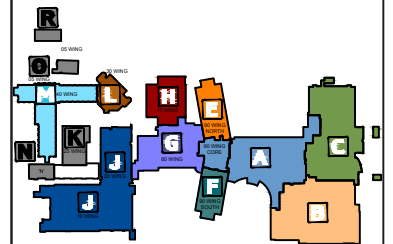
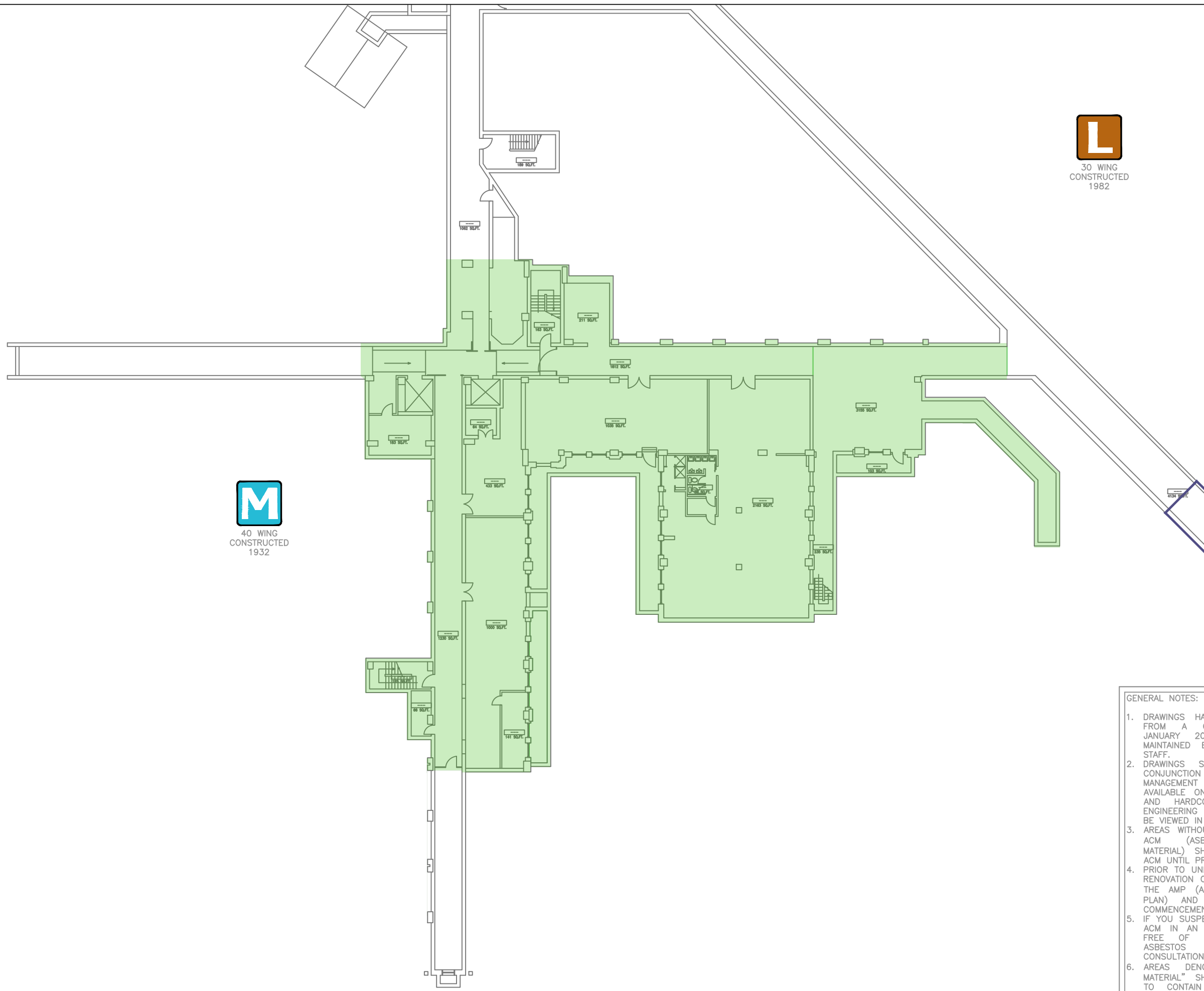
- DRAWINGS HAVE BEEN CONVERTED FROM A CONTRACTED SOURCE JANUARY 2013 AND WILL BE MAINTAINED BY HHS ENGINEERING STAFF.
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- AREAS DENOTED AS "SUSPECT MATERIAL" SHOULD BE PRESUMED TO CONTAIN ASBESTOS IN THE ABSENCE OF ADDITIONAL SAMPLING THAT PROVES OTHERWISE.

JURAVINSKI SITE

FACILITIES MANAGEMENT

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY	
DRAWING: LEVEL B SECTIONS 'L', 'M', AND 'O' ACM WALLS	
PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 1720030 RA-01 Floor Level B Juravinski
DRAWING No.	

LMO-RA01B



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
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7	7/1/2013		REVIEWED WITHOUT REVISION	GS
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9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND:

	ACM PRESENT
	SUSPECT ACM
	NO ACM PRESENT
	ACM ABATED AREAS AS PER HHS RECORDS

GENERAL NOTES:

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JURAVINSKI SITE

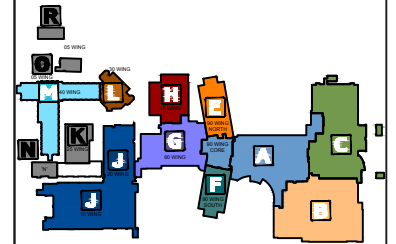
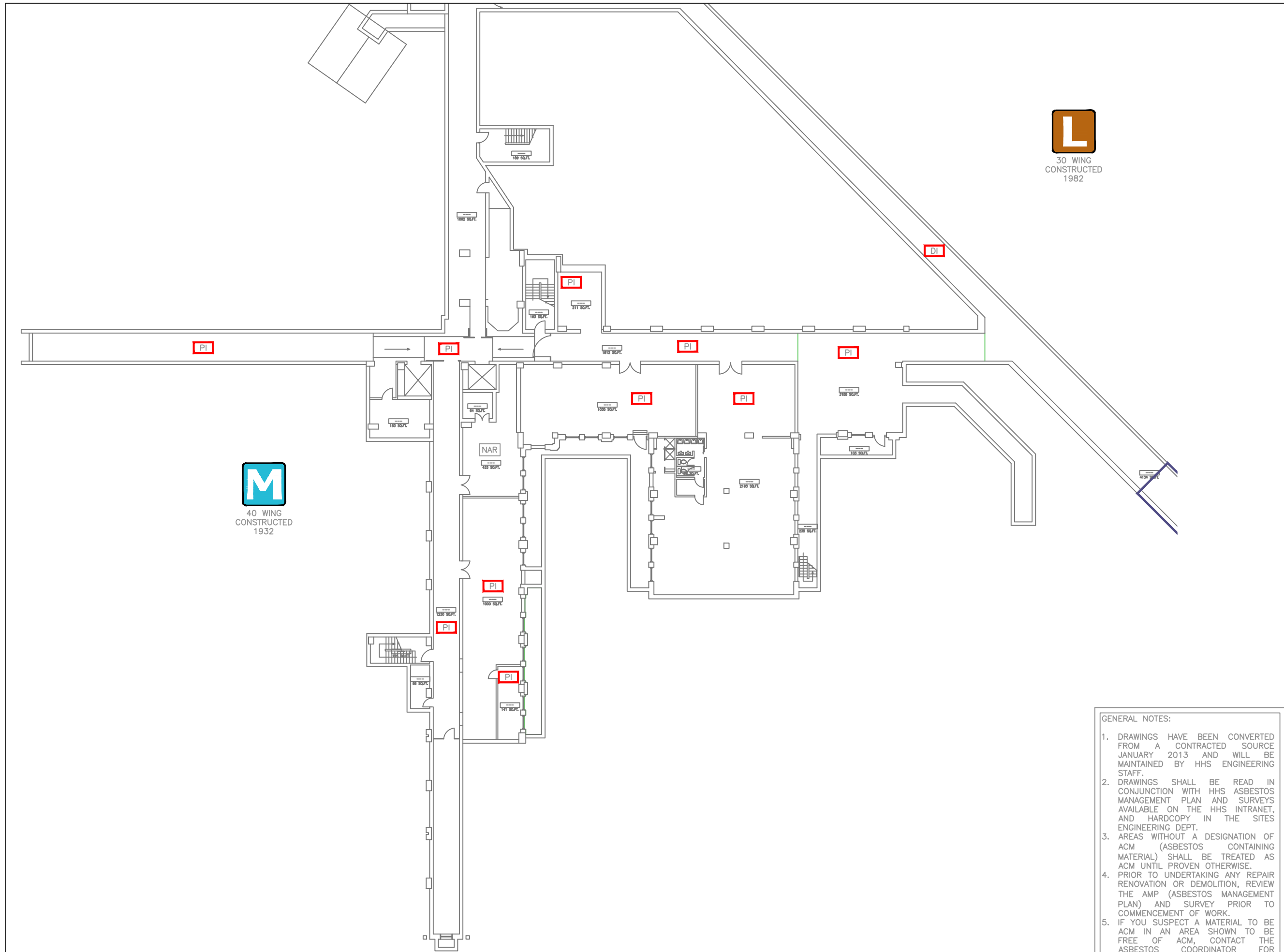


PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING:
LEVEL B
SECTIONS 'L', 'M', AND 'O'
ACM CEILING

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 11/20/030 RA-01 Floor Level B Juravinski
DRAWING NO.:	

LMO-RA01C



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND - OTHER

PI	ACM PIPE INSULATION
DI	ACM DUCT INSULATION
MI	ACM MECHANICAL INSULATION
T1	TYPE 1 ENTRY
T2	TYPE 2 ENTRY
T3	TYPE 3 ENTRY
TF	ACM TEXTURE FINISH
FS	ACM FIRESTOPPING
T	TRANSITE
NAR	NO ACCESS TO ROOM/AREA

GENERAL NOTES:

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JURAVINSKI SITE

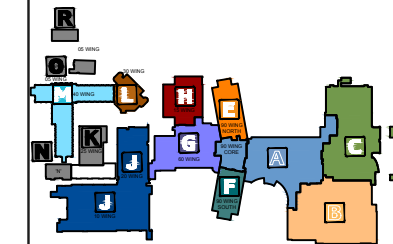
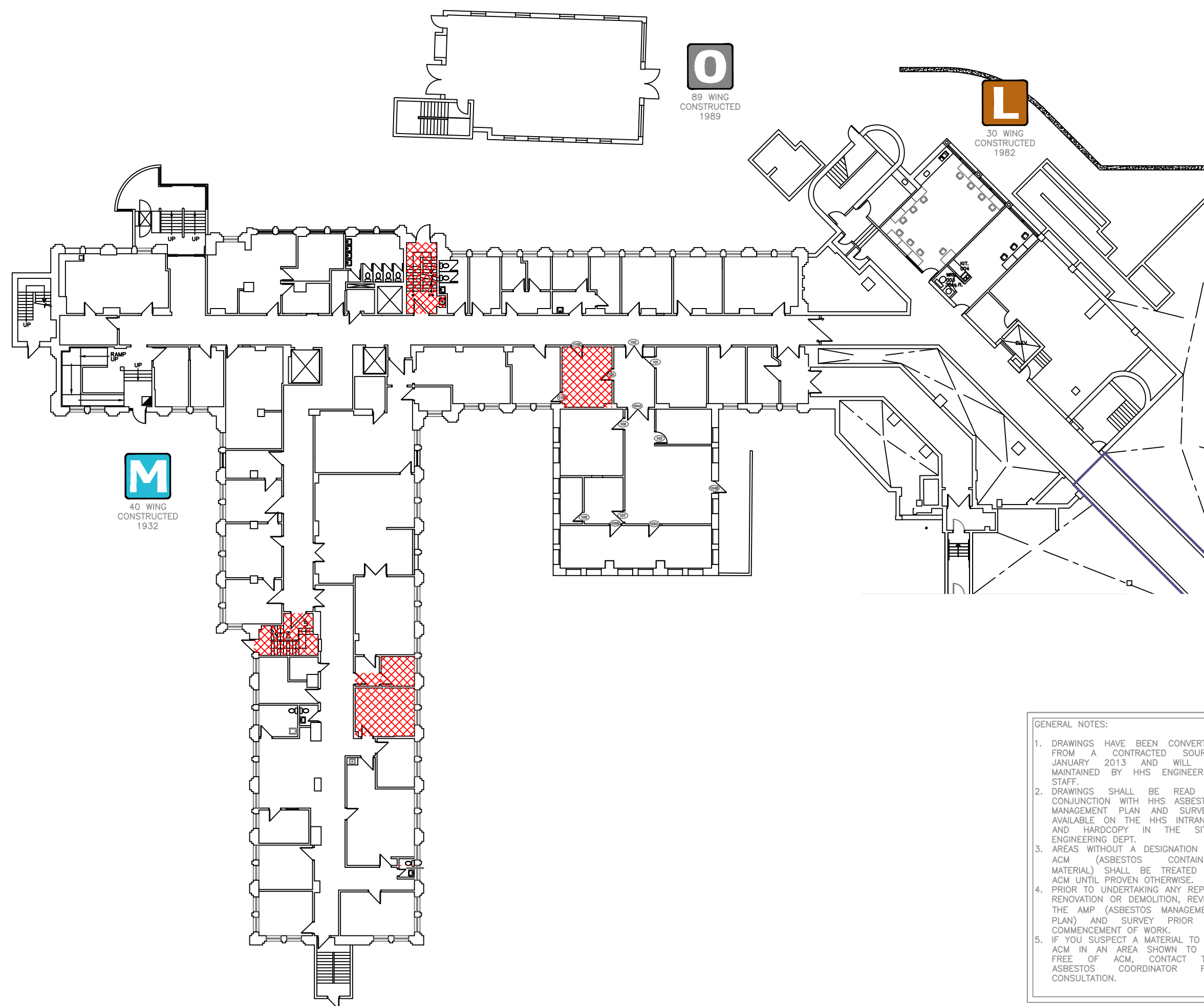
Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING: LEVEL B SECTIONS 'L', 'M', AND 'O' ACM OTHER

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 11/20/030 RA-01 Floor Level B Juravinski
DRAWING No.	

LMO-RA01D



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	2/1/2013		UPDATED	GS
2	3/1/2013		UPDATED	GS
3	4/1/2013		REVIEWED WITHOUT REVISION	GS
4	5/1/2013		REVIEWED WITHOUT REVISION	GS
5	6/1/2013		REVIEWED WITHOUT REVISION	GS
6	7/1/2013		REVIEWED WITHOUT REVISION	GS
7	8/1/2013		REVIEWED WITHOUT REVISION	GS
8	9/1/2013		REVIEWED WITHOUT REVISION	GS
9	10/1/2013		REVIEWED WITHOUT REVISION	GS
10	11/1/2013		REVIEWED WITHOUT REVISION	GS
11	3/31/2016		UPDATED BY ECOH	MM
12	6/15/2017		UPDATED BY ECOH	JK
13	11/2/2018		UPDATED BY PINCHN LIMITED	JB

- LEGEND:**
- ACM VINYL FLOOR TILES
 - ACM VINYL SHEET FLOORING
 - NO ACCESS TO ROOM/AREA
 - ACM FREE OR ABATED AREAS AS PER HHS RECORDS

- GENERAL NOTES:**
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JURAVINSKI SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

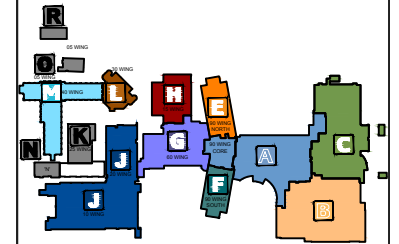
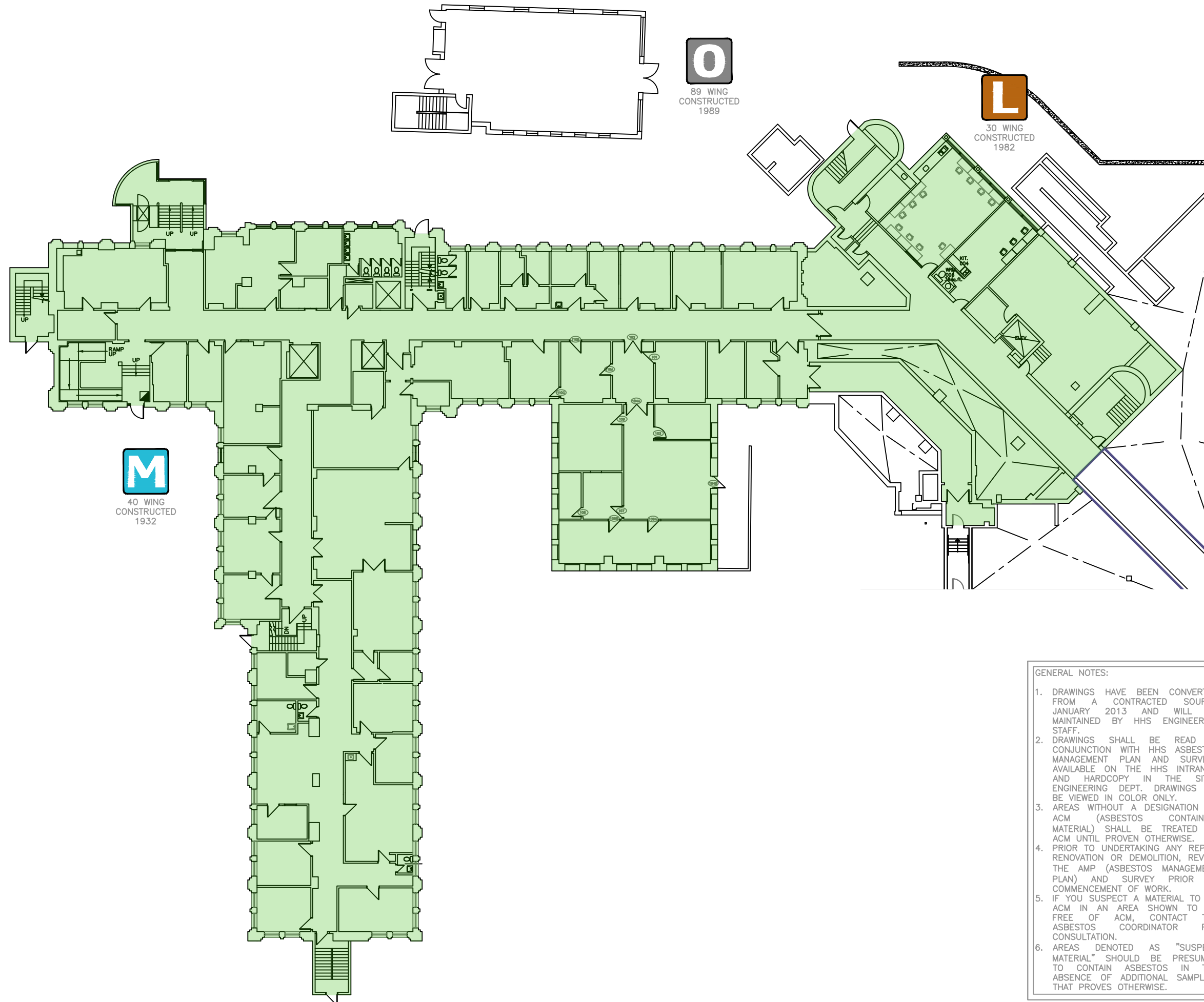
PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING:
LEVEL 0 SECTIONS 'L', 'M', AND 'O' ACM ON FLOOR

PLOT DATE: NOVEMBER 2018	DEPARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 17207030 RA-02 Floor Level 0 Juravinski
DRAWING No.	

LMO-RA02A

SHEET SIZE = ARCH 'D' - 24" x 36" (METER) - 610mm x 914mm (METRIC)



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	2/1/2013		UPDATED	GS
2	3/1/2013		UPDATED	GS
3	4/1/2013		REVIEWED WITHOUT REVISION	GS
4	5/1/2013		REVIEWED WITHOUT REVISION	GS
5	6/1/2013		REVIEWED WITHOUT REVISION	GS
6	7/1/2013		REVIEWED WITHOUT REVISION	GS
7	8/1/2013		REVIEWED WITHOUT REVISION	GS
8	9/1/2013		REVIEWED WITHOUT REVISION	GS
9	10/1/2013		REVIEWED WITHOUT REVISION	GS
10	11/1/2013		REVIEWED WITHOUT REVISION	GS
11	3/31/2016		UPDATED BY ECOH	MM
12	6/15/2017		UPDATED BY ECOH	JK
13	11/2/2018		UPDATED BY PINCHIN LIMITED	JB

LEGEND:

- ACM PRESENT
- SUSPECT ACM DJC ON WALLS
- NO ACM PRESENT
- ACM ABATED AREAS AS PER HHS RECORDS

GENERAL NOTES:

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JURAVINSKI SITE

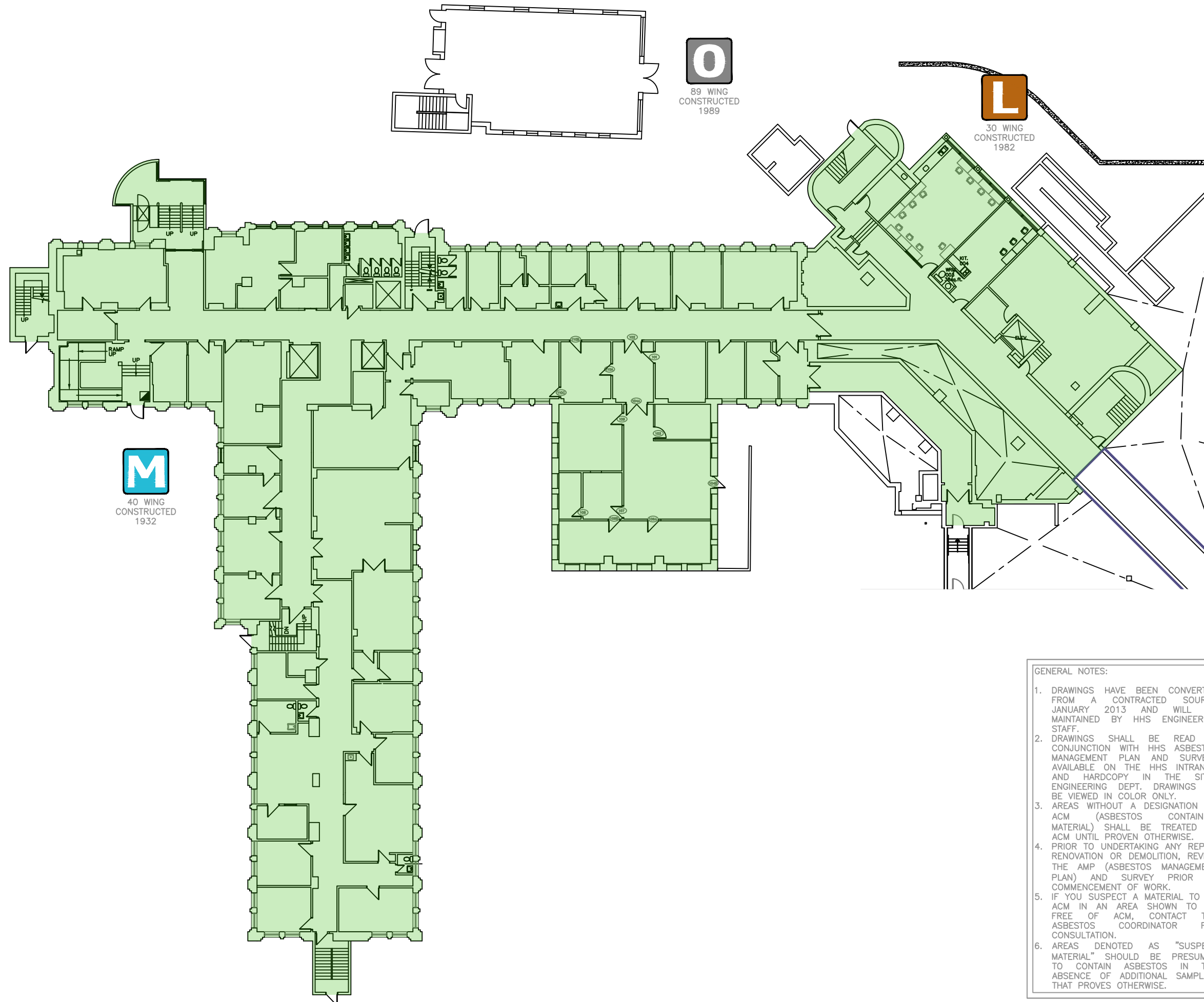


PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS:
LEVEL 0
SECTIONS 'L', 'M', AND 'O'
ACM WALLS

PLOT DATE: NOVEMBER 2018	DEPARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 17207030 RA-02 Floor Level 0 Juravinski
DRAWING NO.	

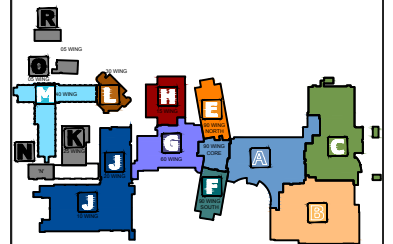
LMO-RA02B



O
89 WING
CONSTRUCTED
1989

L
30 WING
CONSTRUCTED
1982

M
40 WING
CONSTRUCTED
1932



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	2/1/2013		UPDATED	GS
2	3/1/2013		UPDATED	GS
3	4/1/2013		REVIEWED WITHOUT REVISION	GS
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9	10/1/2013		REVIEWED WITHOUT REVISION	GS
10	11/1/2013		REVIEWED WITHOUT REVISION	GS
11	3/31/2016		UPDATED BY ECOH	MM
12	6/15/2017		UPDATED BY ECOH	JK
13	11/2/2018		UPDATED BY PINCHIN LIMITED	JB

- LEGEND:**
- ACM PRESENT
 - SUSPECT ACM DJC ON CEILING
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

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JURAVINSKI SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

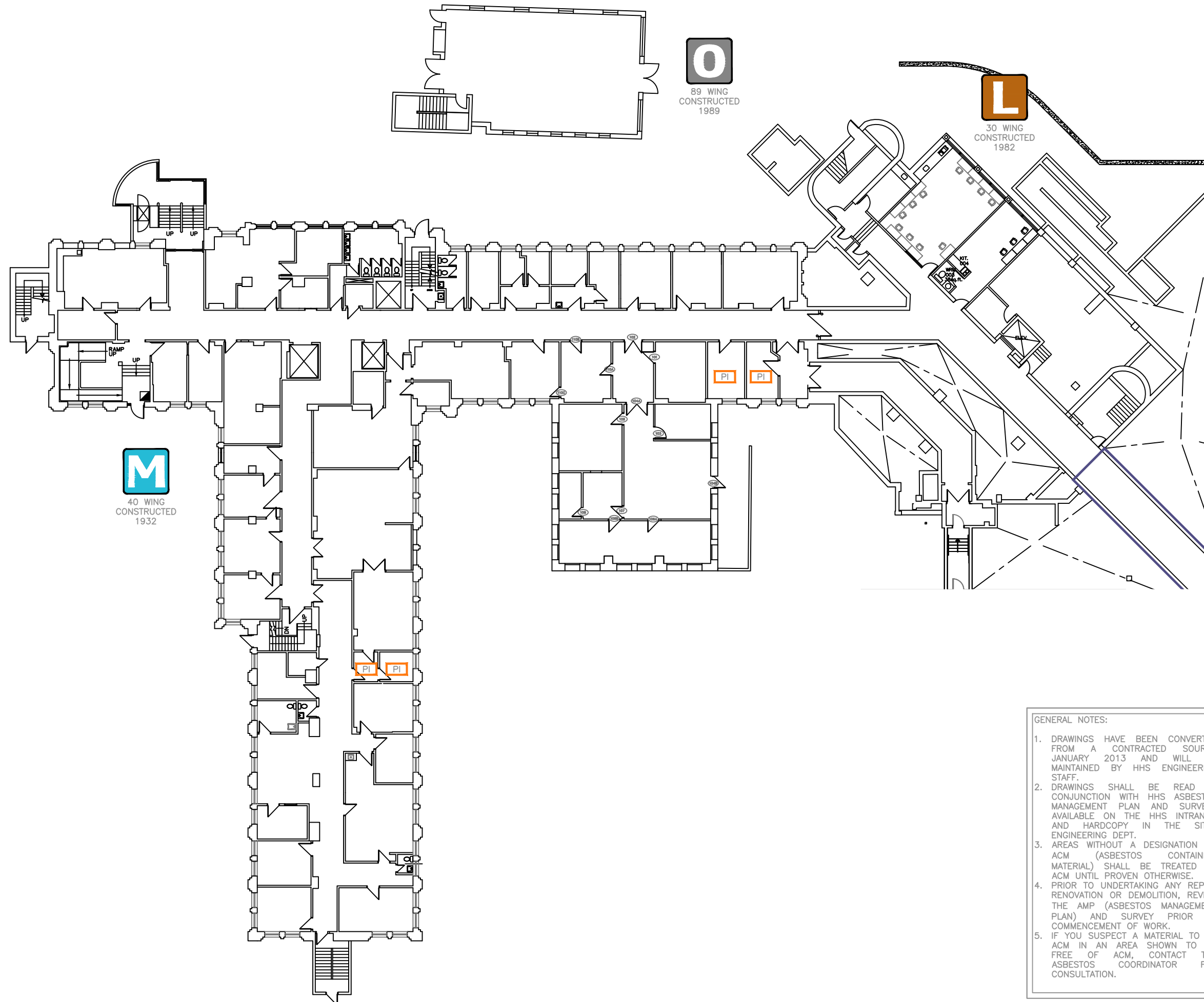
PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS: LEVEL 0 SECTIONS 'L', 'M', AND 'O' ACM CEILING

PLOT DATE: NOVEMBER 2018	DEPARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 174207030 RA-02 Floor Level 0 Juravinski
DRAWING NO.	

LMO-RA2C

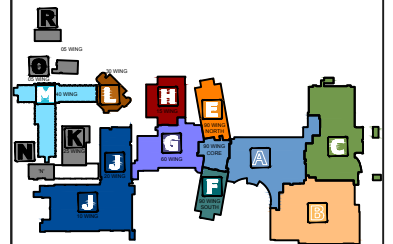
SHEET SIZE = ARCH D - 24" x 36" (IMPERIAL) = 610mm x 914mm (METRIC)



O
89 WING
CONSTRUCTED
1989

L
30 WING
CONSTRUCTED
1982

M
40 WING
CONSTRUCTED
1932



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	2/1/2013		UPDATED	GS
2	3/1/2013		UPDATED	GS
3	4/1/2013		REVIEWED WITHOUT REVISION	GS
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10	11/1/2013		REVIEWED WITHOUT REVISION	GS
11	3/31/2016		UPDATED BY ECOH	MM
12	6/15/2017		UPDATED BY ECOH	JK
13	11/2/2018		UPDATED BY PINCHN LIMITED	JB

LEGEND - OTHER

PI	ACM PIPE INSULATION
DI	ACM DUCT INSULATION
MI	ACM MECHANICAL INSULATION
T1	TYPE 1 ENTRY
T2	TYPE 2 ENTRY
T3	TYPE 3 ENTRY
TF	ACM TEXTURE FINISH
FS	ACM FIRESTOPPING
T	TRANSITE
NAR	NO ACCESS TO ROOM/AREA

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JURAVINSKI SITE

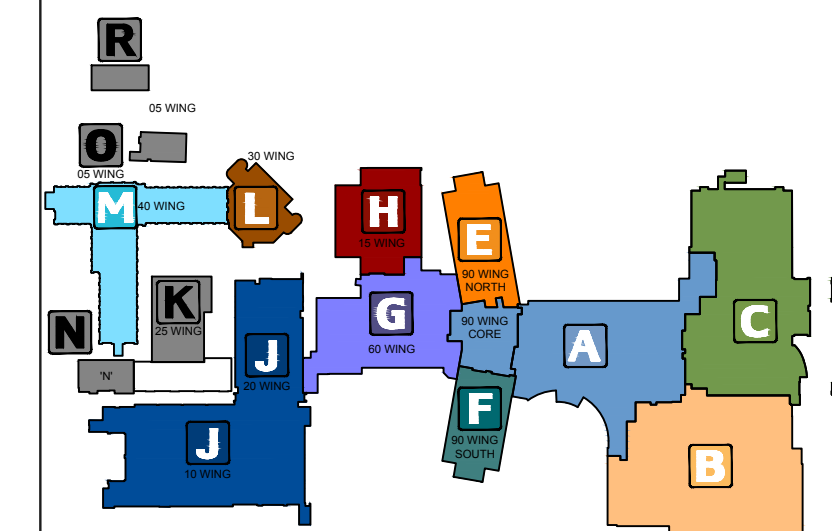
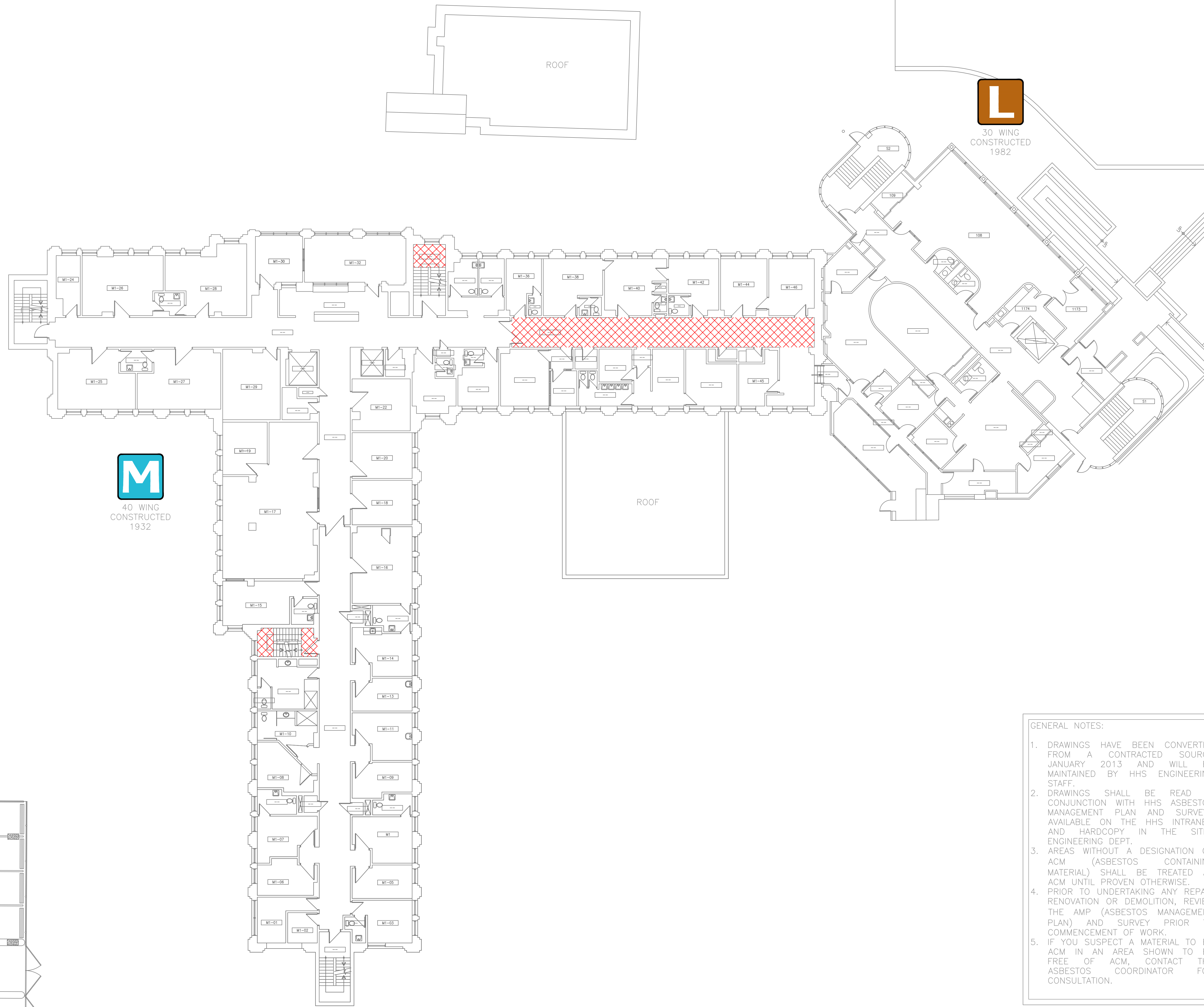
Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS:
LEVEL 0
SECTIONS 'L', 'M', AND 'O'
ACM OTHER

PLOT DATE: NOVEMBER 2018	DEPARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 2174207030 RA-02 Floor Level 0 Juravinski
DRAWING No.	

LMO-RA02D



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
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2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
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5	5/1/2013		REVIEWED WITHOUT REVISION	GS
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8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND:

	ACM VINYL FLOOR TILES
	ACM VINYL SHEET FLOORING
	NO ACCESS TO ROOM/AREA
	ACM FREE OR ABATED AREAS AS PER HHS RECORDS

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JURAVINSKI SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

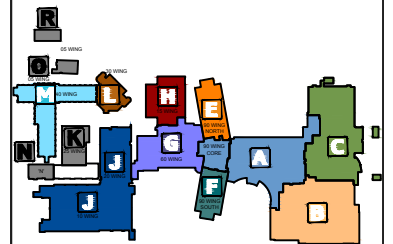
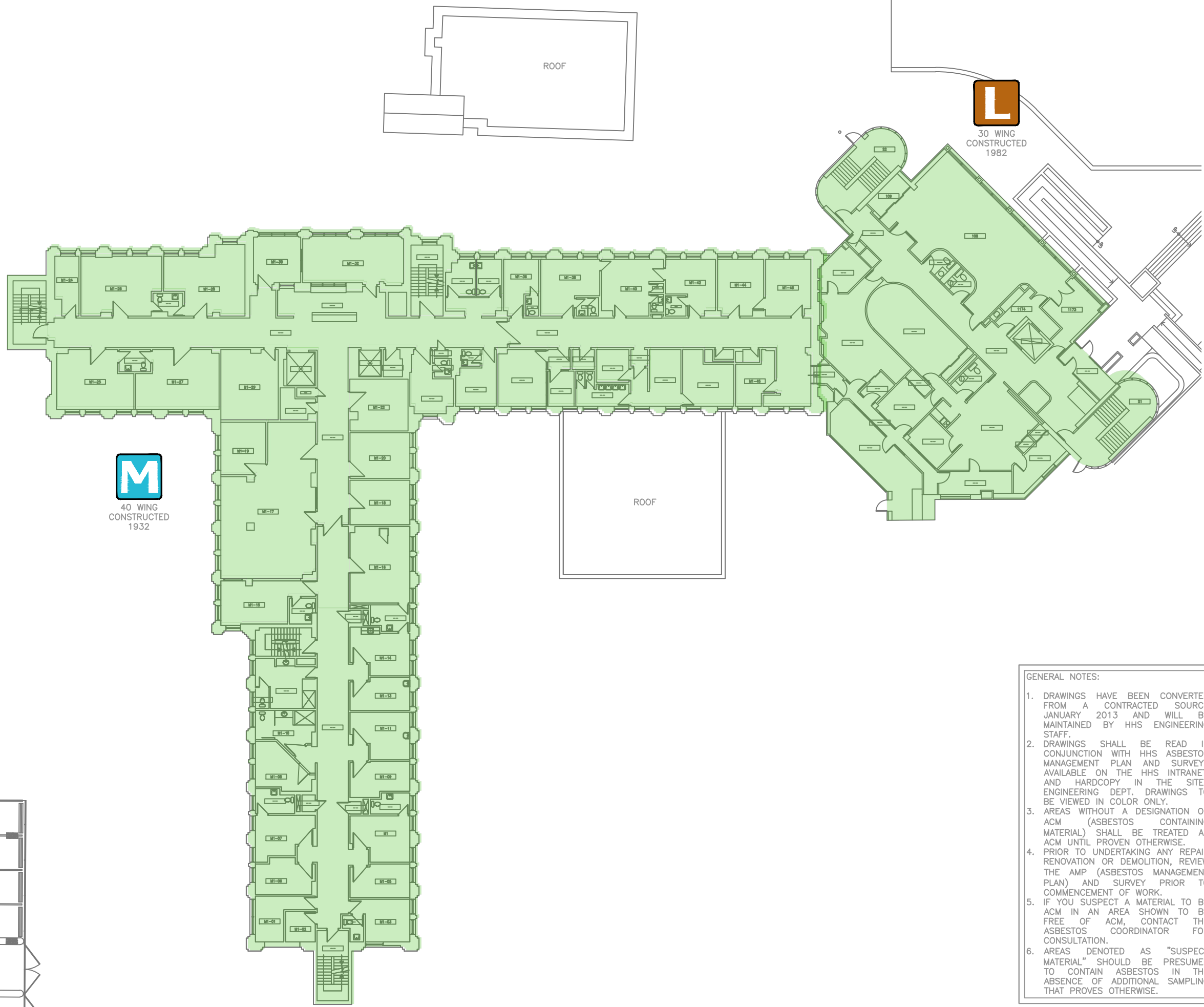
PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING: LEVEL 1 SECTIONS 'L', 'M', AND 'O' ACM ON FLOOR

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 1920030 RA-03 Floor Level 1 Juravinski
DRAWING NO.	

LMO-RA03A

SHEET SIZE = ARCH D - 24" x 36" (MPEROM) - 610mm x 914mm (MPEROM)



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:**
- ACM PRESENT
 - SUSPECT ACM DJC ON WALLS
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

- GENERAL NOTES:**
- DRAWINGS HAVE BEEN CONVERTED FROM A CONTRACTED SOURCE JANUARY 2013 AND WILL BE MAINTAINED BY HHS ENGINEERING STAFF.
 - DRAWINGS SHALL BE READ IN CONJUNCTION WITH HHS ASBESTOS MANAGEMENT PLAN AND SURVEYS AVAILABLE ON THE HHS INTRANET, AND HARDCOPY IN THE SITES ENGINEERING DEPT. DRAWINGS TO BE VIEWED IN COLOR ONLY.
 - AREAS WITHOUT A DESIGNATION OF ACM (ASBESTOS CONTAINING MATERIAL) SHALL BE TREATED AS ACM UNTIL PROVEN OTHERWISE.
 - PRIOR TO UNDERTAKING ANY REPAIR RENOVATION OR DEMOLITION, REVIEW THE AMP (ASBESTOS MANAGEMENT PLAN) AND SURVEY PRIOR TO COMMENCEMENT OF WORK.
 - IF YOU SUSPECT A MATERIAL TO BE ACM IN AN AREA SHOWN TO BE FREE OF ACM, CONTACT THE ASBESTOS COORDINATOR FOR CONSULTATION.
 - AREAS DENOTED AS "SUSPECT MATERIAL" SHOULD BE PRESUMED TO CONTAIN ASBESTOS IN THE ABSENCE OF ADDITIONAL SAMPLING THAT PROVES OTHERWISE.

JURAVINSKI SITE



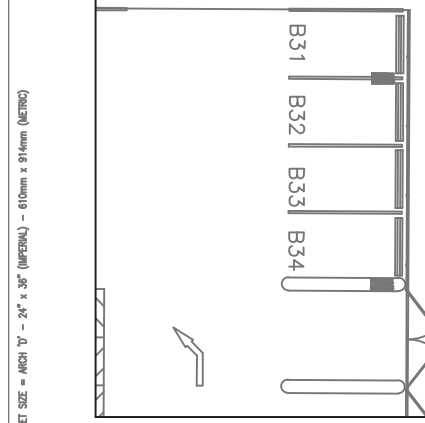
FACILITIES MANAGEMENT

PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

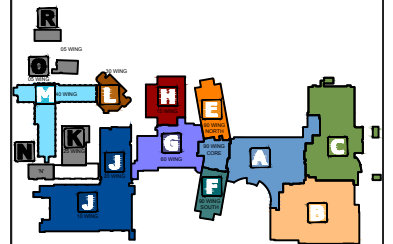
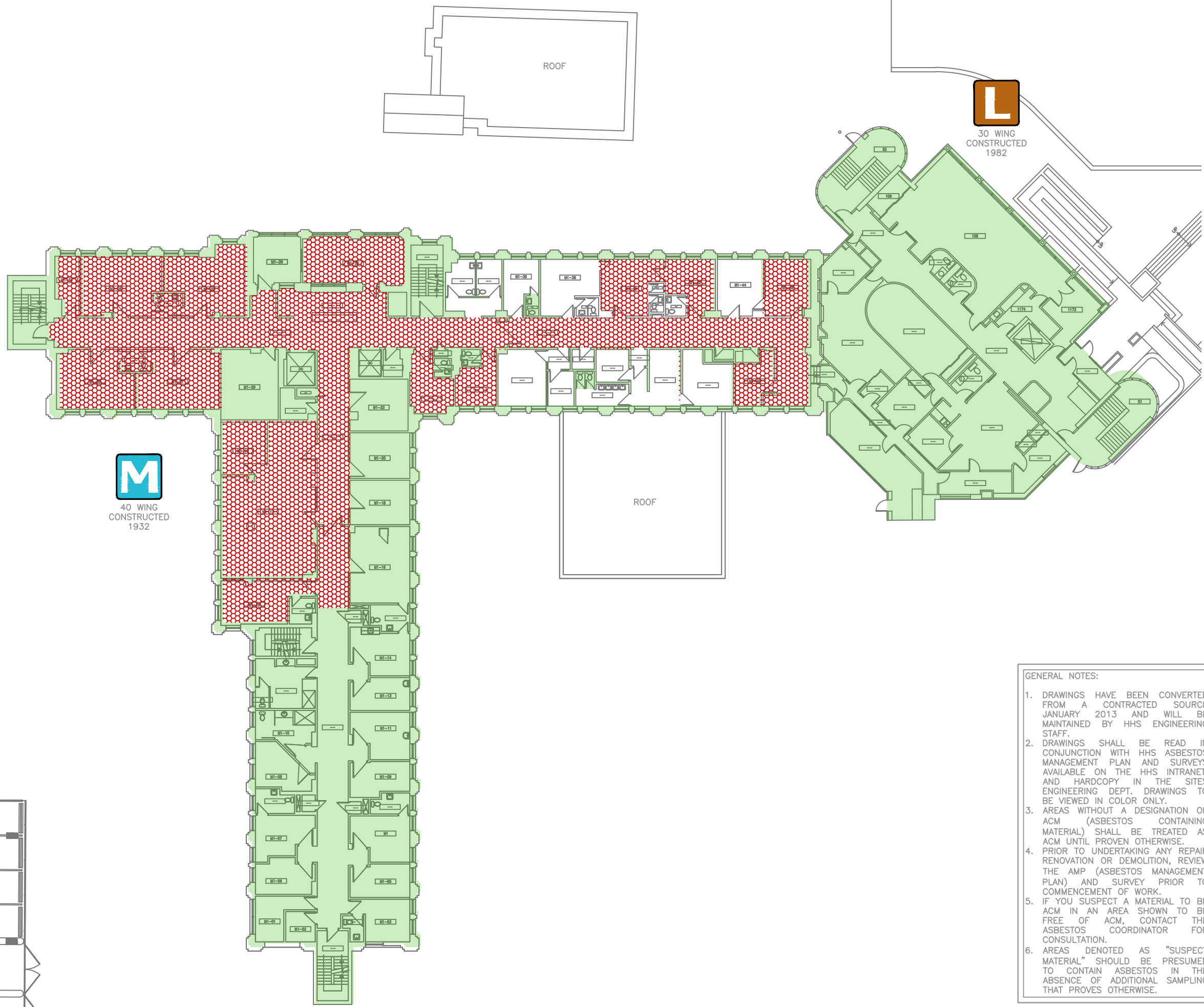
DRAWINGS:
LEVEL 1
SECTIONS 'L', 'M', AND 'O'
ACM WALLS

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 174207030 RA-03 Floor Level 1 Juravinski
DRAWING NO.	

LMO-RA03B



SHEET SIZE = ARCH D - 24" x 36" (IMPERIAL) - 610mm x 914mm (METRIC)



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
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9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:**
- ACM PRESENT ON CEILING
 - SUSPECT ACM DJC ON CEILING
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS
 - ACM CEILING TILES

- GENERAL NOTES:**
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JURAVINSKI SITE

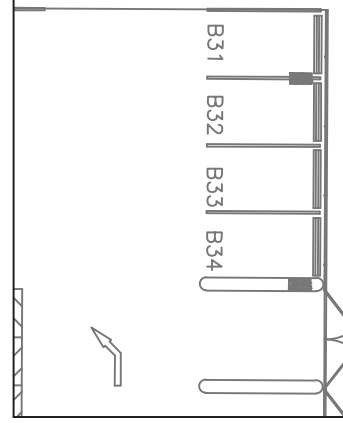
Hamilton Health Sciences
FACILITIES MANAGEMENT

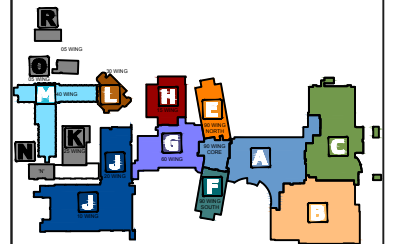
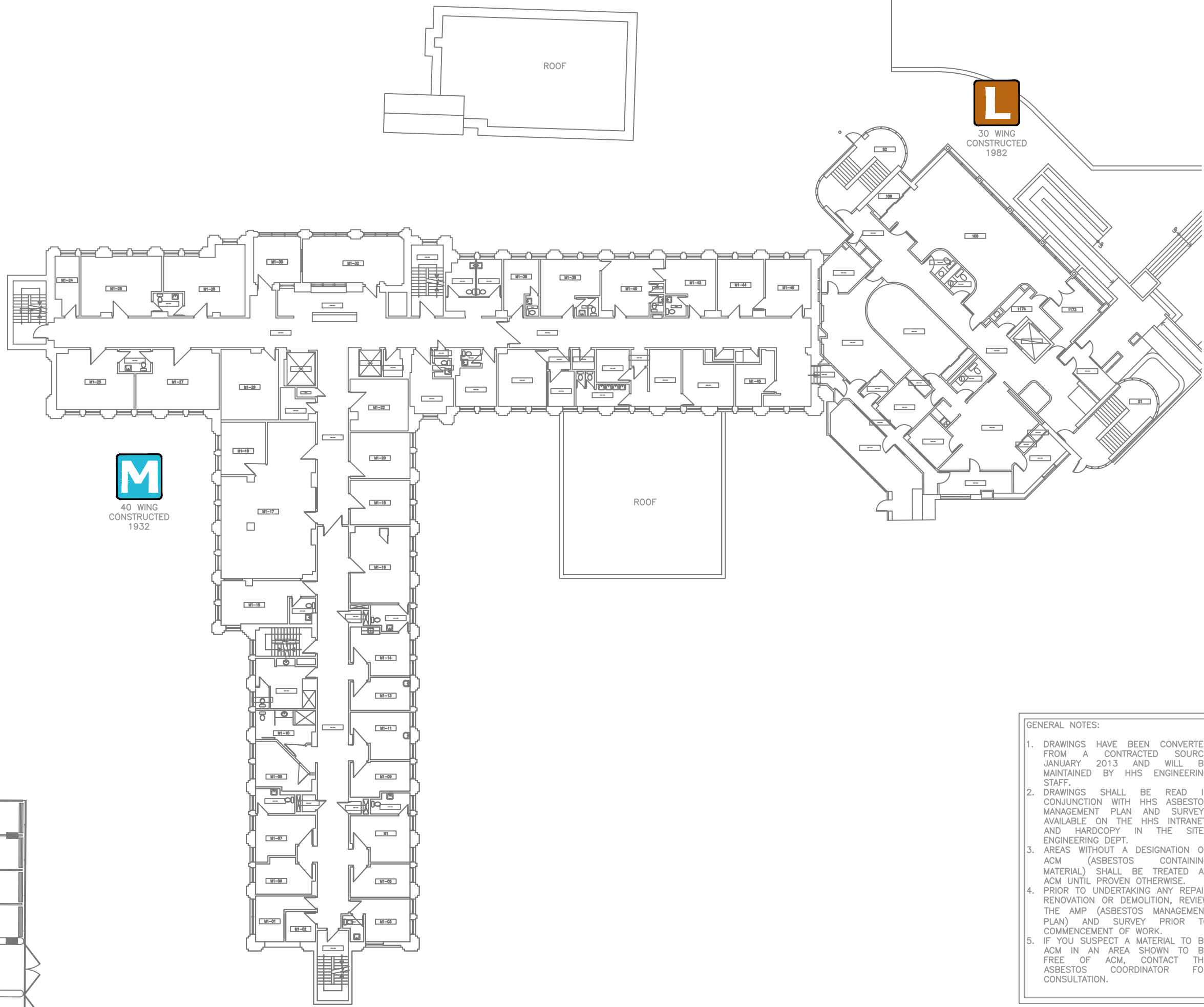
PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS: LEVEL 1 SECTIONS 'L', 'M', AND 'O' ACM CEILING

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 174207030 RA-03 Floor Level 1 Juravinski
DRAWING NO.	

LMO-RA03C





KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
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10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND - OTHER

PI	ACM PIPE INSULATION
DI	ACM DUCT INSULATION
MI	ACM MECHANICAL INSULATION
T1	TYPE 1 ENTRY
T2	TYPE 2 ENTRY
T3	TYPE 3 ENTRY
TF	ACM TEXTURE FINISH
FS	ACM FIRESTOPPING
T	TRANSITE
NAR	NO ACCESS TO ROOM/AREA

GENERAL NOTES:

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JURAVINSKI SITE

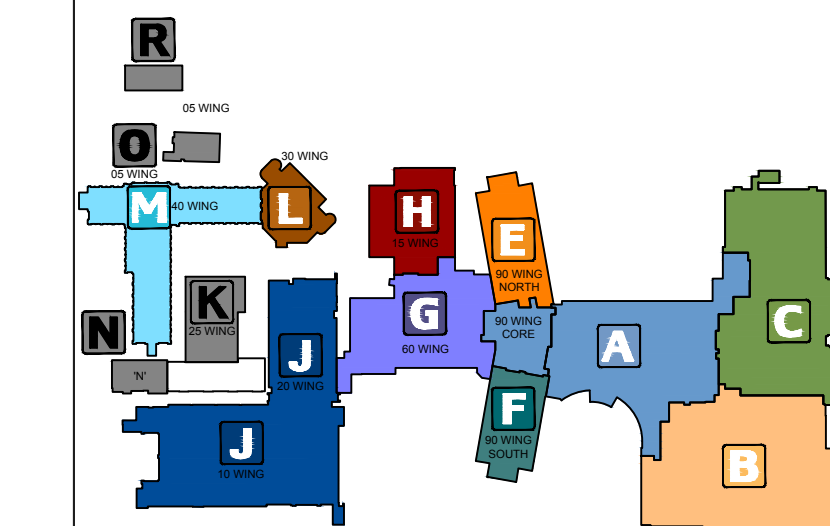
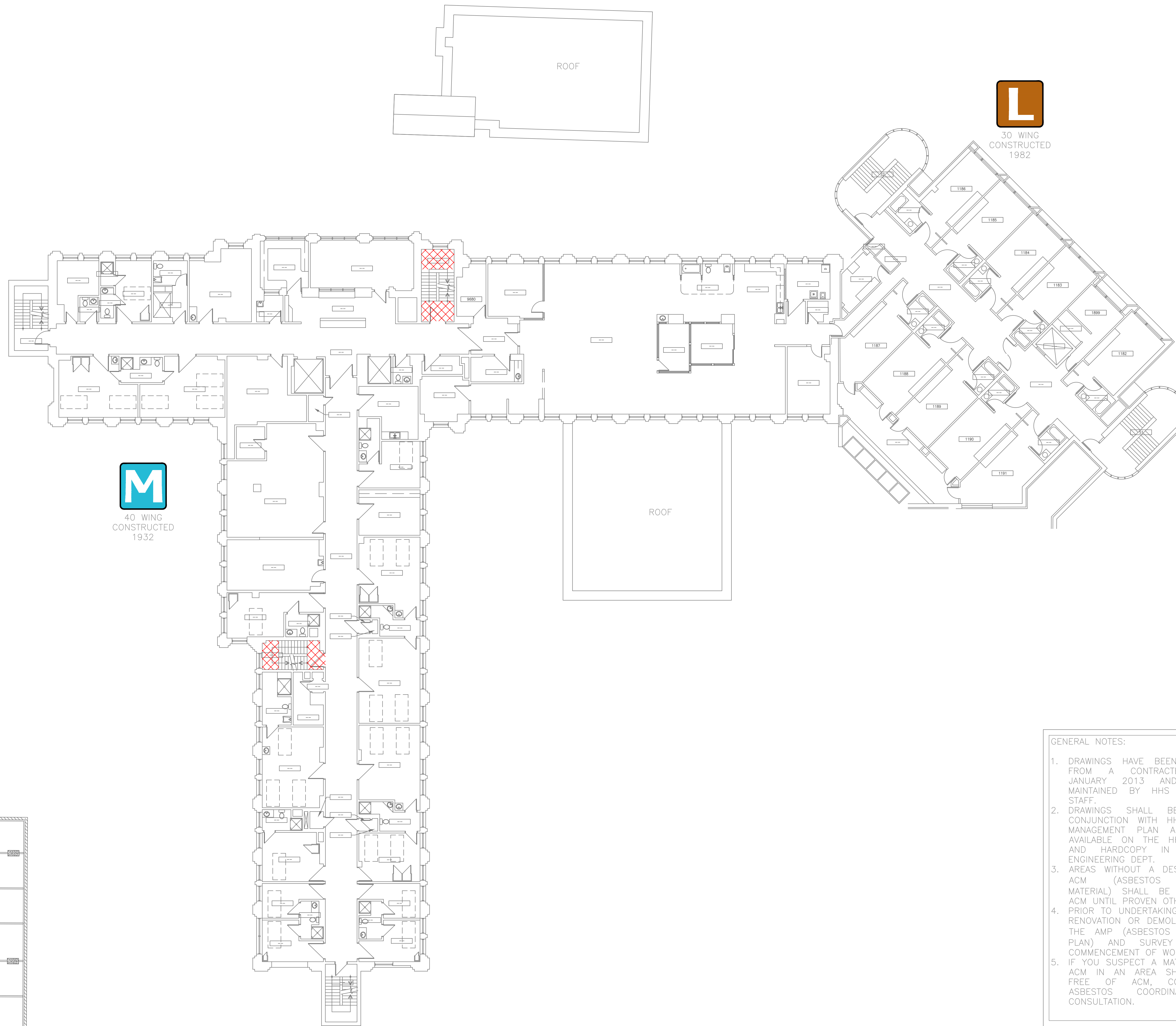
Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS: LEVEL 1 SECTIONS 'L', 'M', AND 'O' ACM OTHER

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 11720030 RA-03 Floor Level 1 Juravinski
DRAWING No.	

LMO-RA03D



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
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9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:**
- ACM VINYL FLOOR TILES
 - ACM VINYL SHEET FLOORING
 - NO ACCESS TO ROOM/AREA
 - ACM FREE OR ABATED AREAS AS PER HHS RECORDS

- GENERAL NOTES:**
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JURAVINSKI SITE

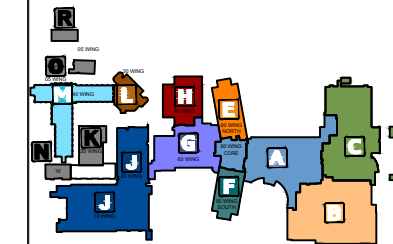
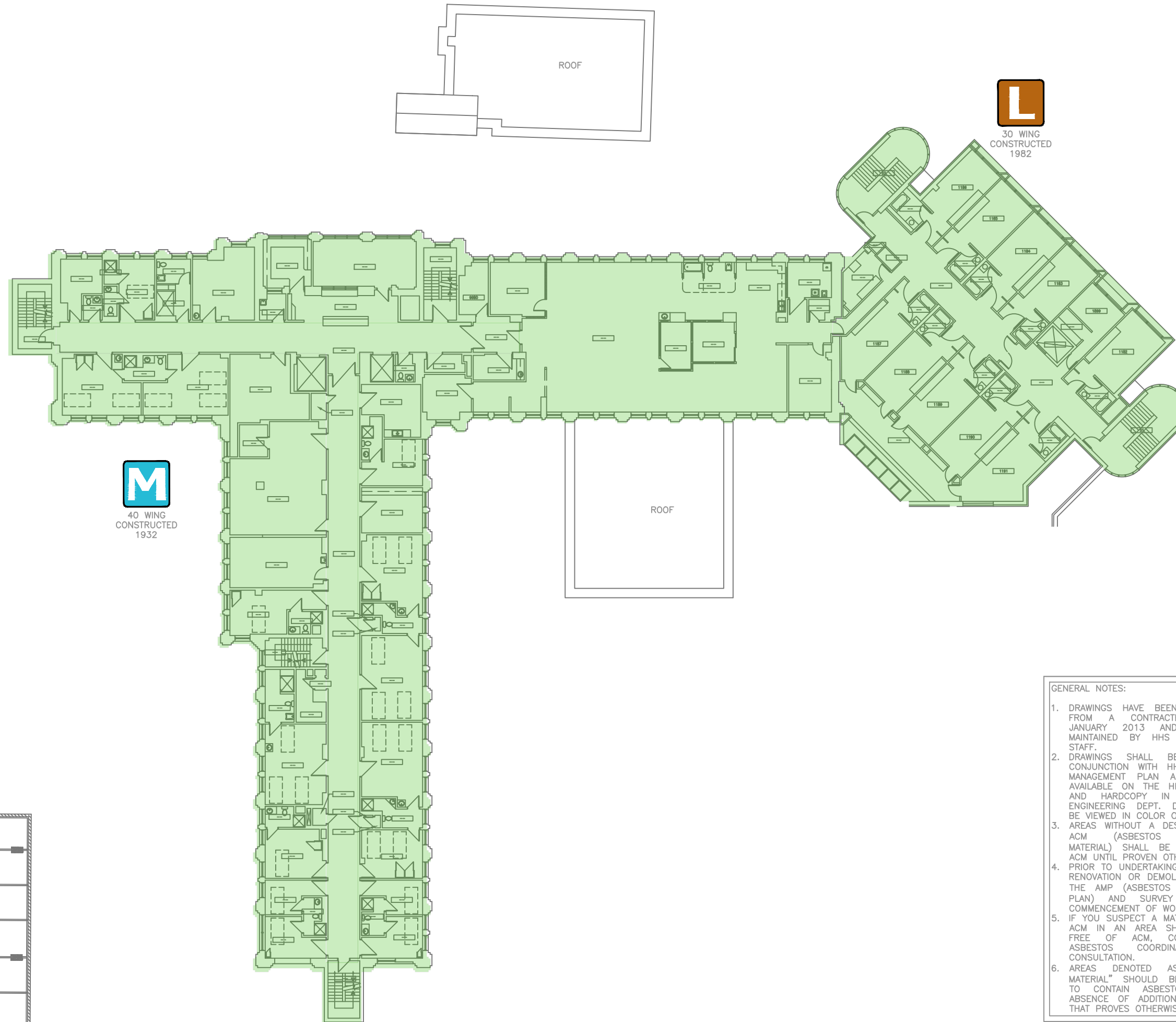
Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY
 DRAWING: LEVEL 2 SECTIONS 'L', 'M', AND 'O' ACM ON FLOOR
 PLOT DATE: DEPARTMENT: ENGINEERING
 SUPERVISOR: GEOFF SCHWARZ
 SCALE: N.T.S.
 DRAWN BY: GEOFF SCHWARZ
 FILE NAME: 1926030 RA-04 Floor Level 2 Juravinski
 DRAWING No.

LMO-RA04A

SHEET SIZE = ARCH D - 24" x 36" (METER) - 610mm x 914mm (METER)

D21 | D22 | D23 | D24 | D25 | D26



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
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4	4/1/2013		REVIEWED WITHOUT REVISION	GS
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8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:**
- ACM PRESENT
 - SUSPECT ACM DJC ON WALLS
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

GENERAL NOTES:

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JURAVINSKI SITE



FACILITIES MANAGEMENT

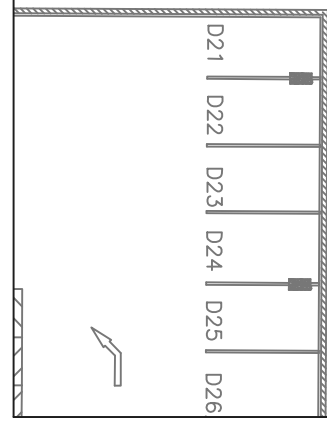
PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

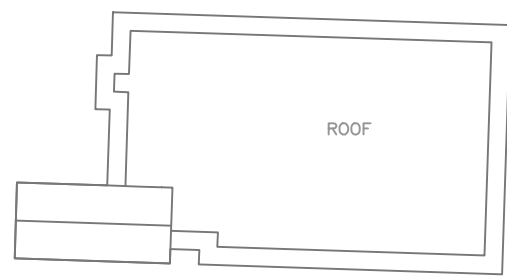
DRAWINGS: LEVEL 2 SECTIONS 'L', 'M', AND 'O' ACM WALLS

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 17207030 RA-04 Floor Level 2 Juravinski
DRAWING NO.:	

LMO-RA04B

SHEET SIZE = ARCH D - 24" x 36" (IMPERIAL) = 610mm x 914mm (METRIC)

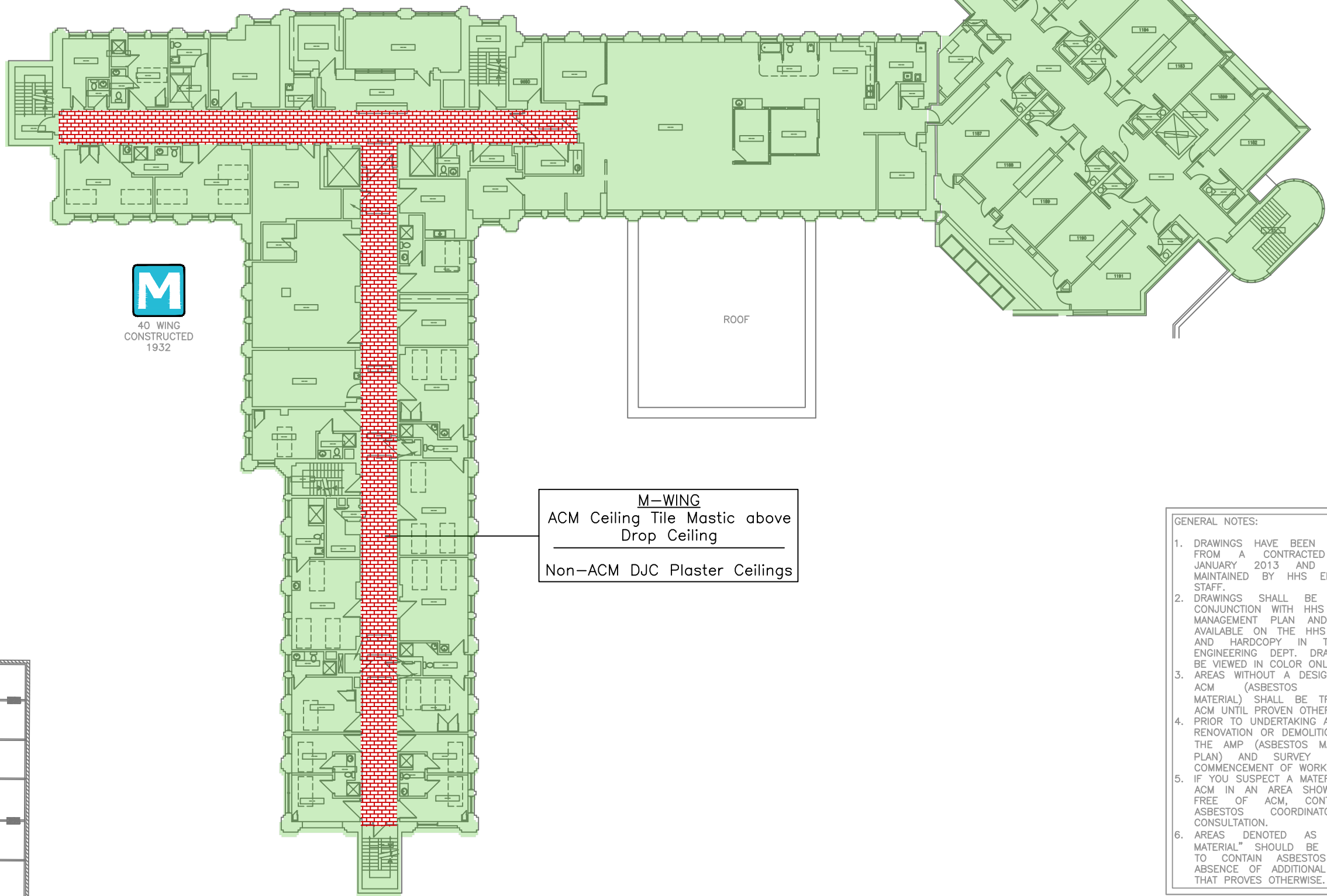




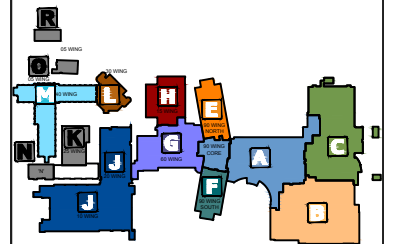
30 WING
CONSTRUCTED
1982



40 WING
CONSTRUCTED
1932



M-WING
ACM Ceiling Tile Mastic above
Drop Ceiling
Non-ACM DJC Plaster Ceilings



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
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4	4/1/2013		REVIEWED WITHOUT REVISION	GS
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11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:
- ACM PRESENT
 - SUSPECT ACM DJC ON CEILING
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS
 - ACM CEILING TILE MASTIC ON CEILING ABOVE SUSPENDED

GENERAL NOTES:

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JURAVINSKI SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING:
LEVEL 2
SECTIONS 'L', 'M', AND 'O'
ACM CEILING

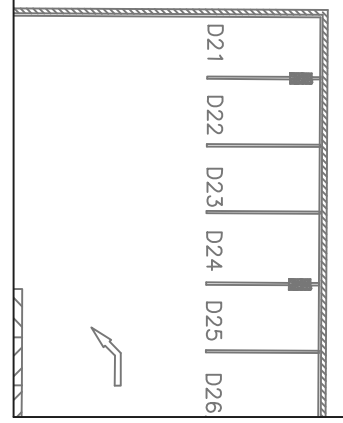
PLOT DATE: _____ DEPARTMENT: ENGINEERING

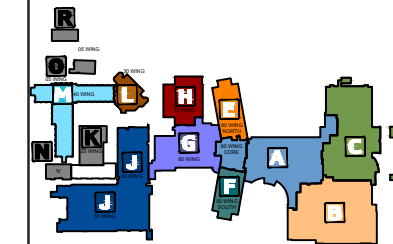
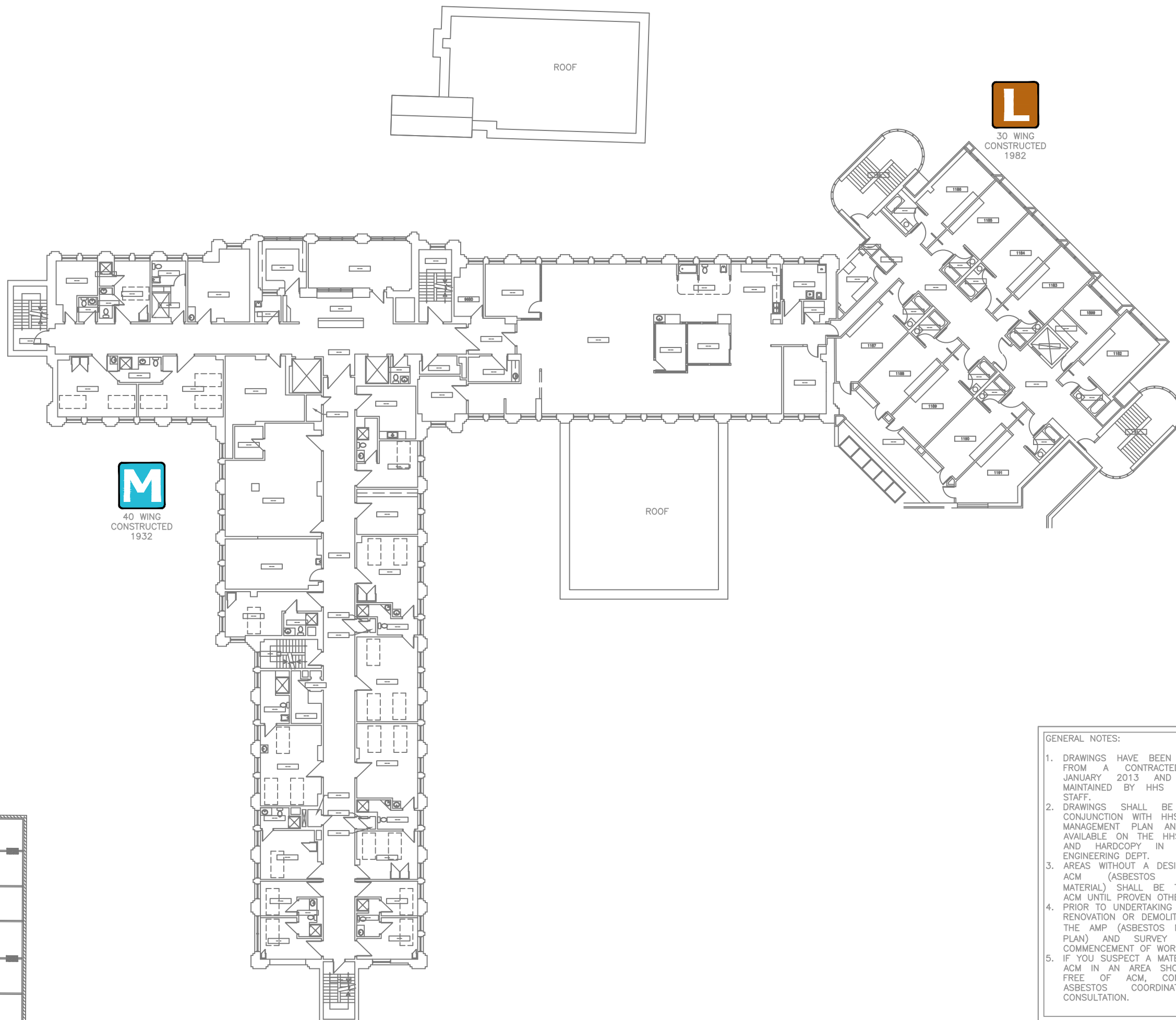
SCALE: N.T.S. SUPERVISOR: GEOFF SCHWARZ

DRAWN BY: GEOFF SCHWARZ FILE # 17420030 RA-04 Floor Level 2 Juravinski

DRAWING NO. _____

LMO-RA04C





KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
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12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND - OTHER

PI	ACM PIPE INSULATION
DI	ACM DUCT INSULATION
MI	ACM MECHANICAL INSULATION
T1	TYPE 1 ENTRY
T2	TYPE 2 ENTRY
T3	TYPE 3 ENTRY
TF	ACM TEXTURE FINISH
FS	ACM FIRESTOPPING
T	TRANSITE
NAR	NO ACCESS TO ROOM/AREA

GENERAL NOTES:

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JURAVINSKI SITE

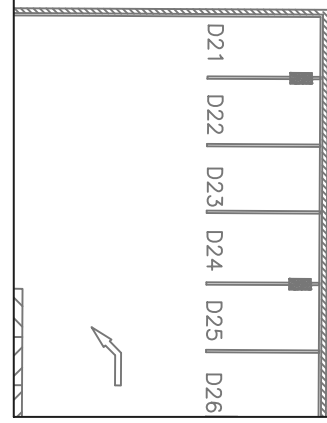
Hamilton Health Sciences
FACILITIES MANAGEMENT

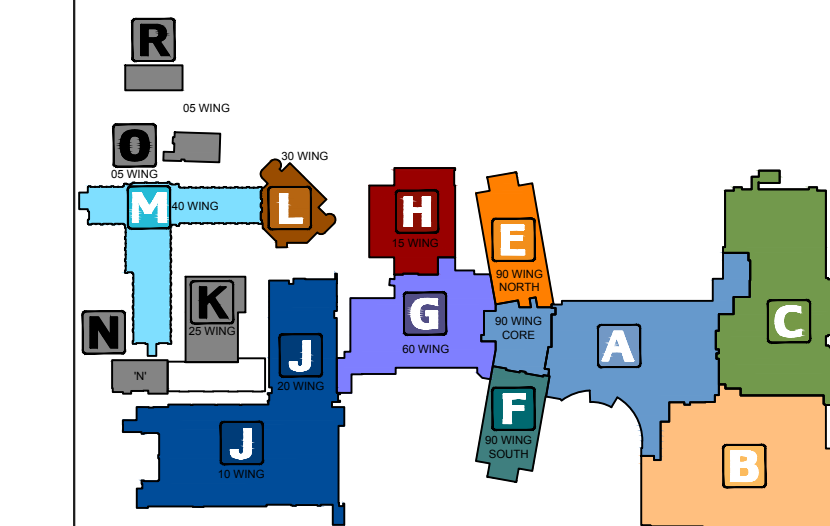
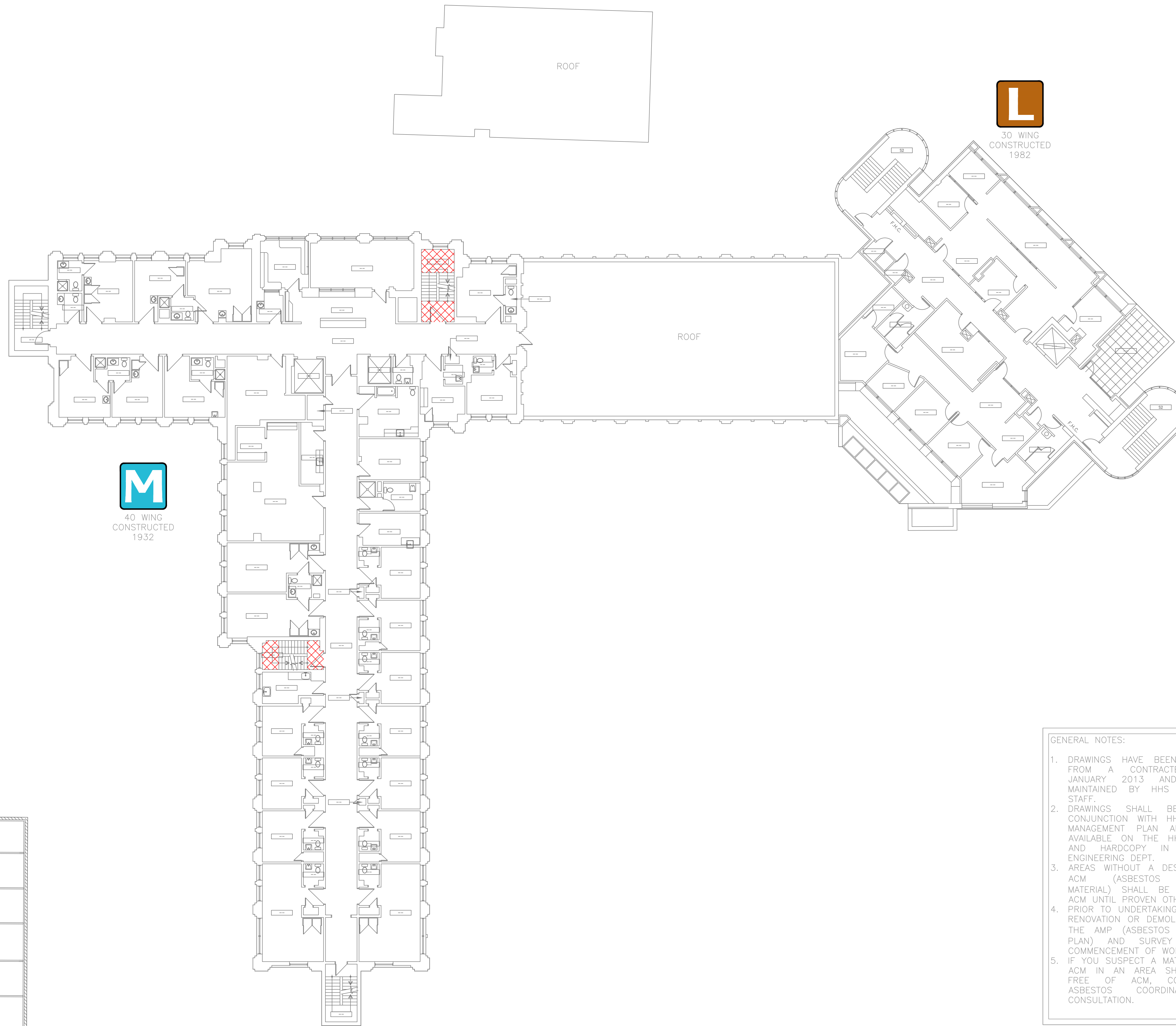
PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING: LEVEL 2 SECTIONS 'L', 'M', AND 'O' ACM OTHER

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 1720030 RA-04 Floor Level 2 Juravinski
DRAWING No.	

LMO-RA04D





KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
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11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:
- ACM VINYL FLOOR TILES
 - ACM VINYL SHEET FLOORING
 - NO ACCESS TO ROOM/AREA
 - ACM FREE OR ABATED AREAS AS PER HHS RECORDS

- GENERAL NOTES:
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 - IF YOU SUSPECT A MATERIAL TO BE ACM IN AN AREA SHOWN TO BE FREE OF ACM, CONTACT THE ASBESTOS COORDINATOR FOR CONSULTATION.

JURAVINSKI SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

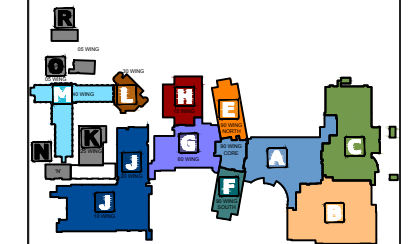
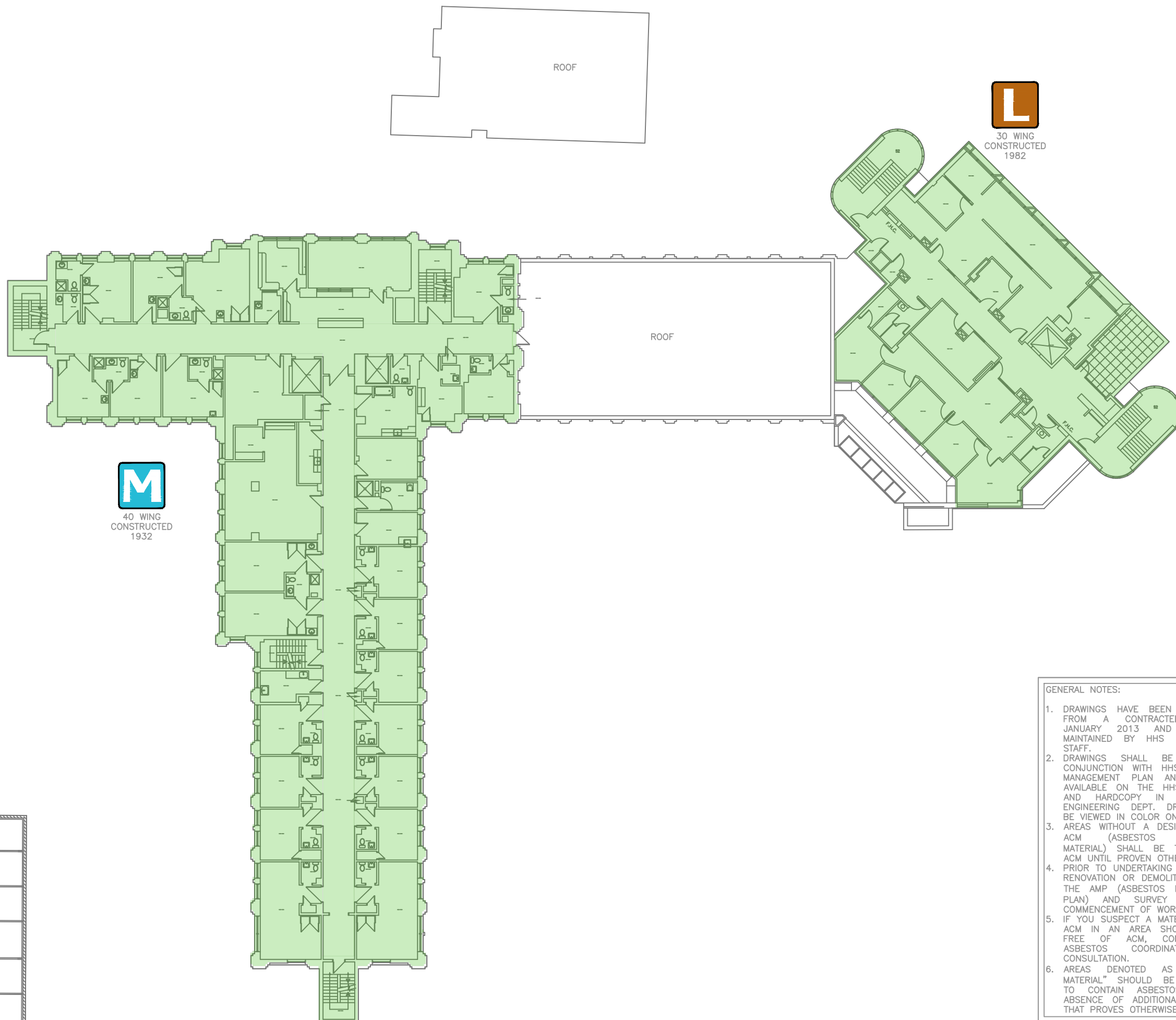
PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING: LEVEL 3 SECTIONS 'L', 'M', AND 'O' ACM ON FLOOR

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 1925030 RA-05 Floor Level 3 Juravinski
DRAWING No.	

LMO-RA05A

F21 | F22 | F23 | F24 | F25 | F26



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
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7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:**
- ACM PRESENT
 - SUSPECT ACM DJC ON WALLS
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

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JURAVINSKI SITE

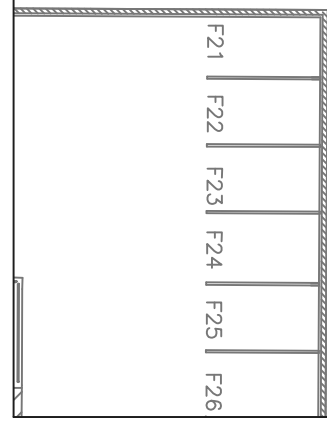


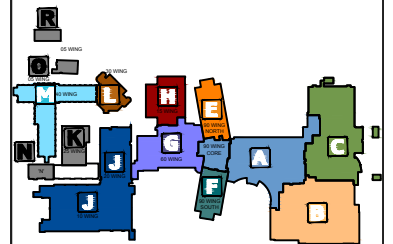
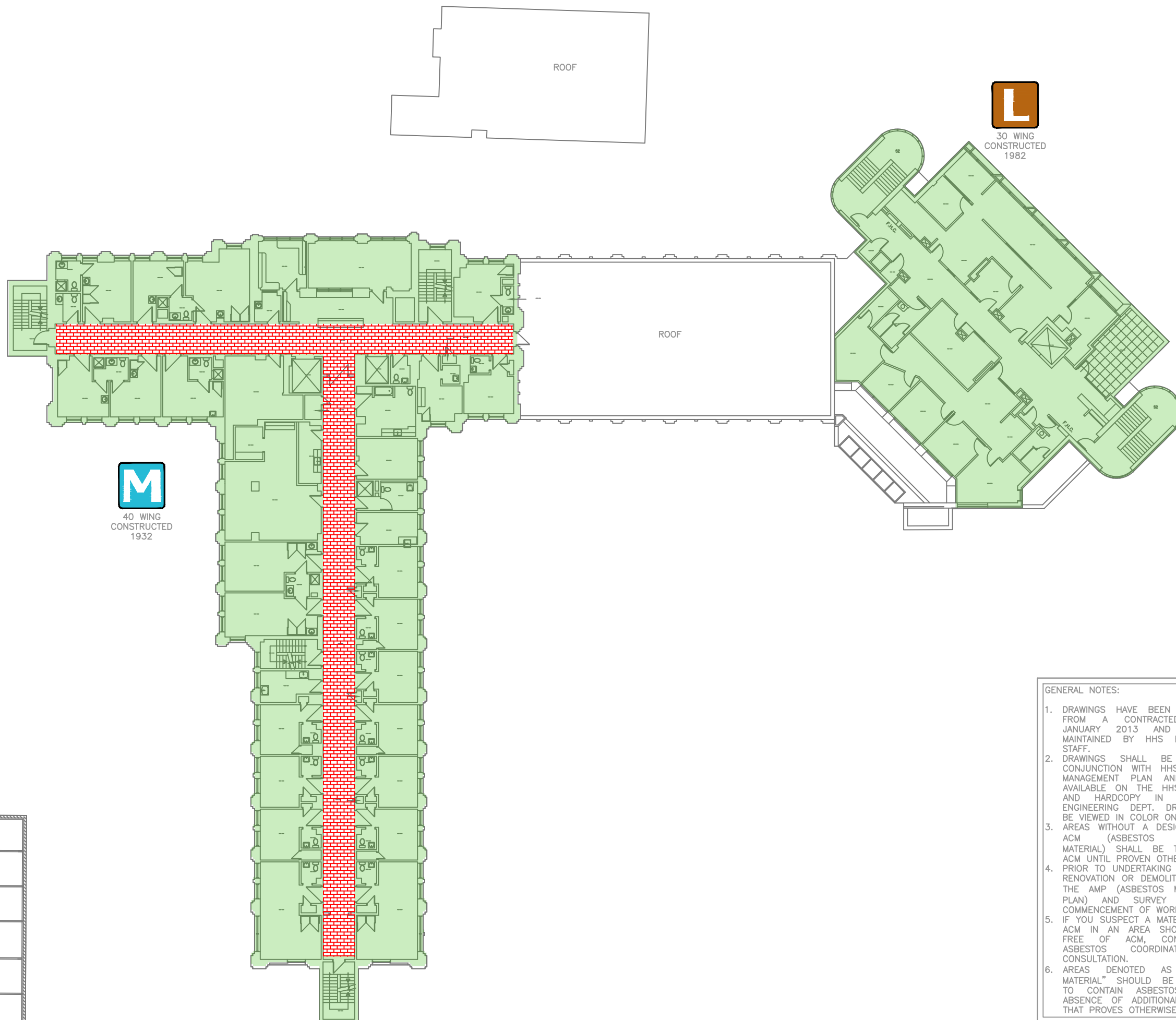
FACILITIES MANAGEMENT

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY	
DRAWINGS: LEVEL 3 SECTIONS 'L', 'M', AND 'O' ACM WALLS	
PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 174207030 RA-05 Floor Level 3 Juravinski
DRAWING NO.	

LMO-RA05B

SHEET SIZE = ARCH D - 24" x 36" (IMPERIAL) = 610mm x 914mm (METRIC)





KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
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10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:**
- ACM PRESENT
 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS
 - ACM CEILING TILE MASTIC

GENERAL NOTES:

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JURAVINSKI SITE



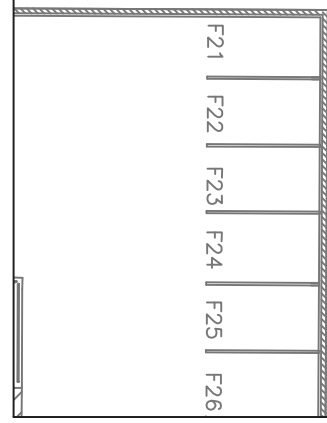
Hamilton Health Sciences
FACILITIES MANAGEMENT

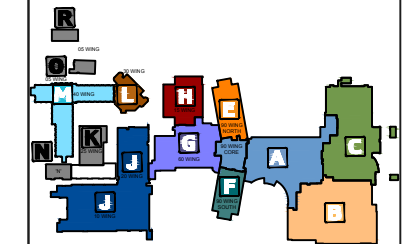
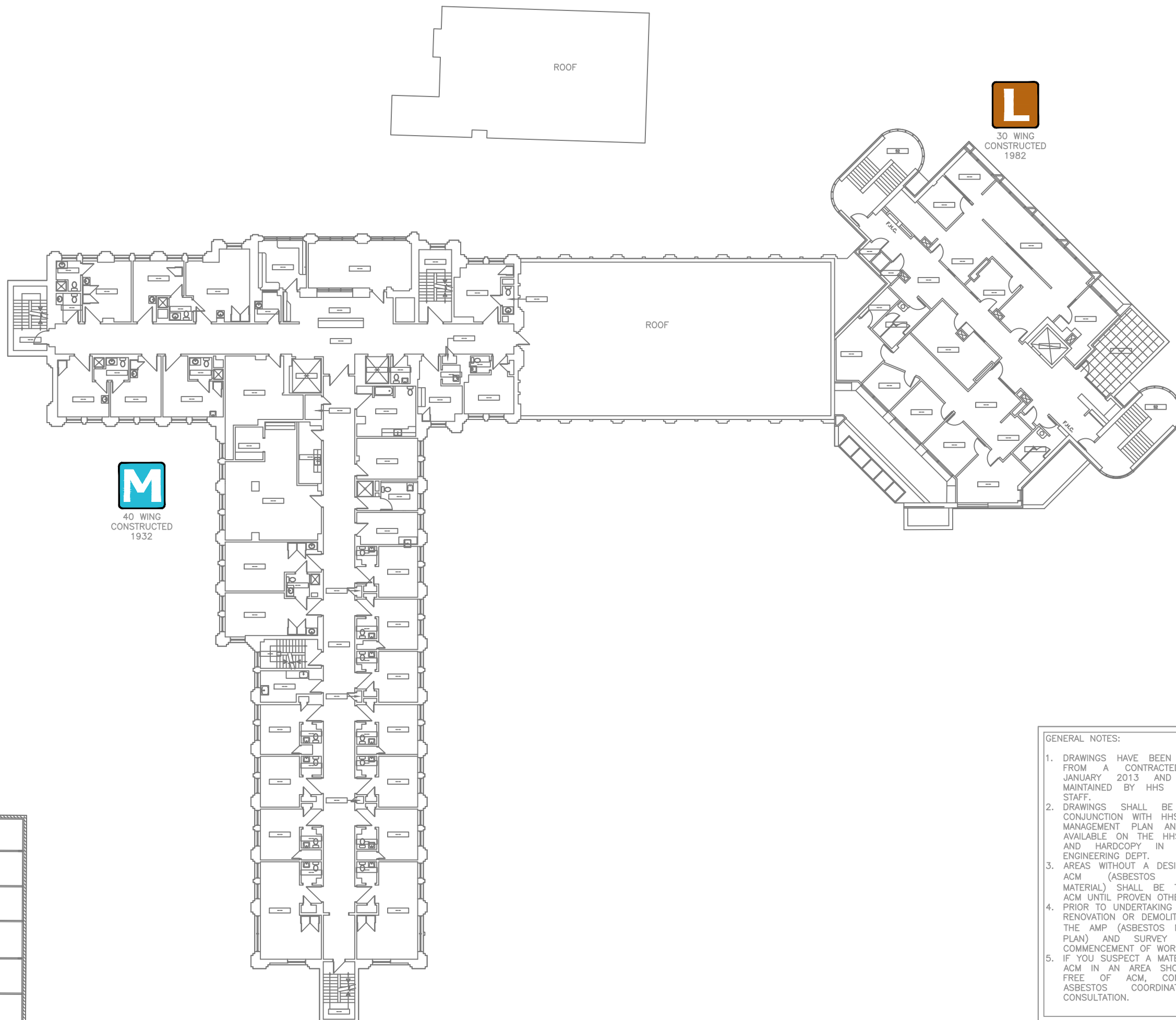
PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS: LEVEL 3 SECTIONS 'L', 'M', AND 'O' ACM CEILING

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 174207030 RA-05 Floor Level 3 Juravinski
DRAWING NO.	

LMO-RA05C





KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
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2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
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8	8/1/2013		REVIEWED WITHOUT REVISION	GS
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10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND - OTHER

PI	ACM PIPE INSULATION
DI	ACM DUCT INSULATION
MI	ACM MECHANICAL INSULATION
T1	TYPE 1 ENTRY
T2	TYPE 2 ENTRY
T3	TYPE 3 ENTRY
TF	ACM TEXTURE FINISH
FS	ACM FIRESTOPPING
T	TRANSITE
NAR	NO ACCESS TO ROOM/AREA

GENERAL NOTES:

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JURAVINSKI SITE

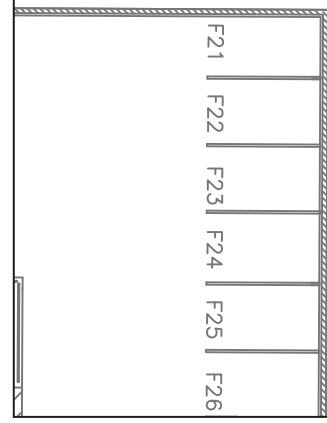
Hamilton Health Sciences
FACILITIES MANAGEMENT

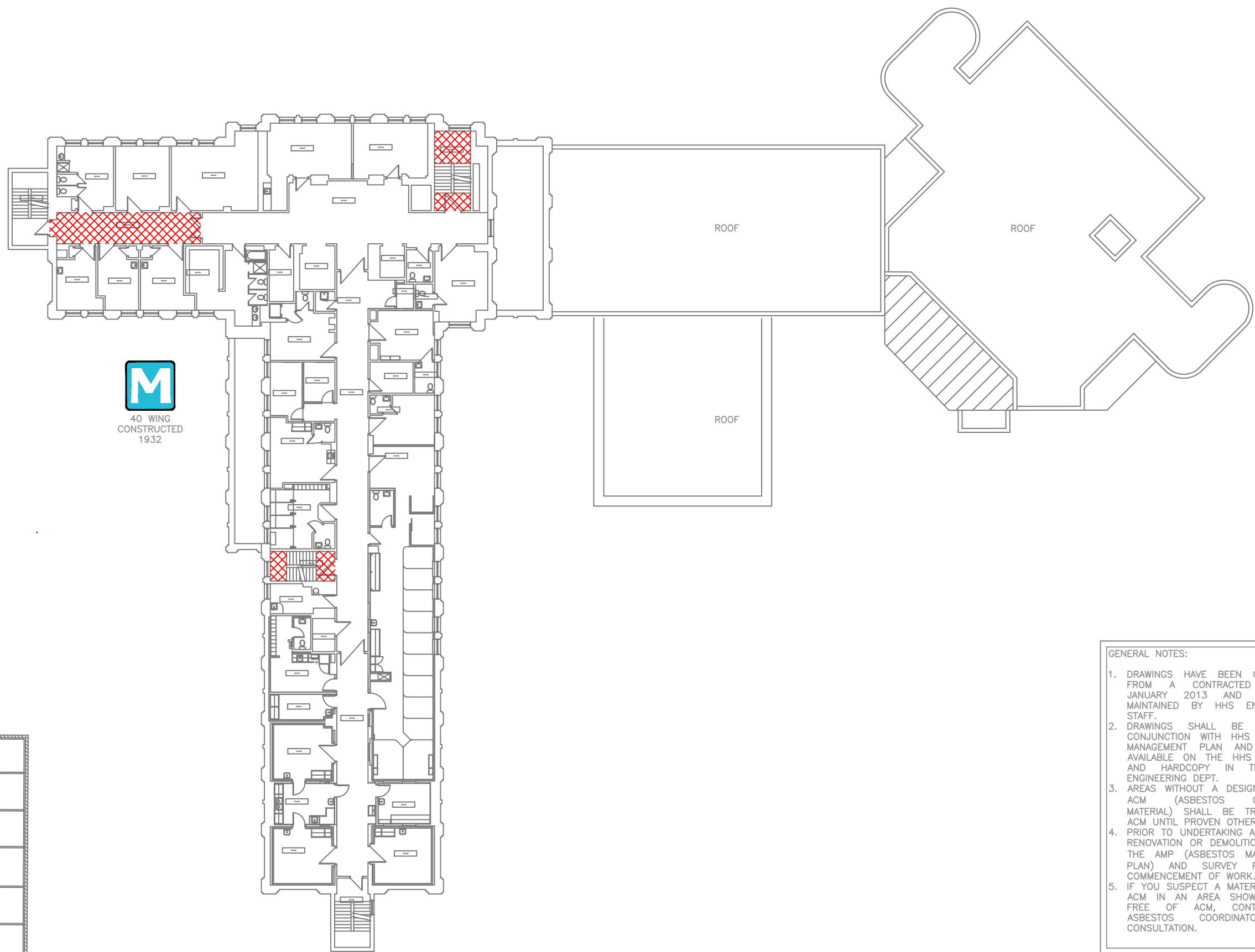
PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING: LEVEL 3 SECTIONS 'L', 'M', AND 'O' ACM OTHER

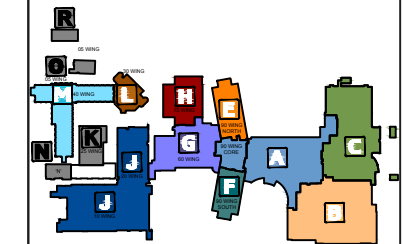
PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 1720030 RA-05 Floor Level 3 Juravinski
DRAWING No.	

LMO-RA05D





M
40 WING
CONSTRUCTED
1932



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
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10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:**
- ACM VINYL FLOOR TILES
 - ACM VINYL SHEET FLOORING
 - NO ACCESS TO ROOM/AREA
 - ACM FREE OR ABATED AREAS AS PER HHS RECORDS

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JURAVINSKI SITE

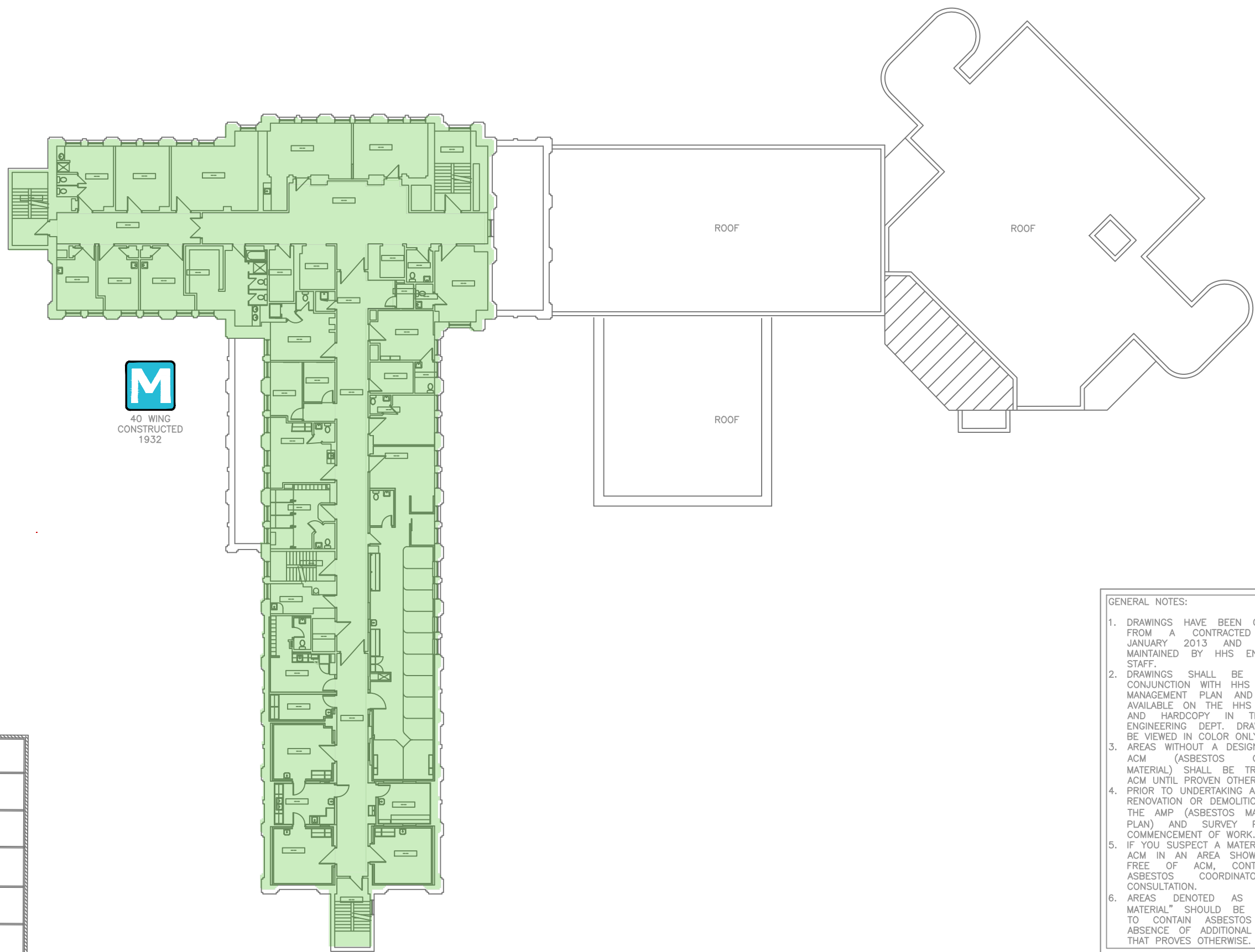
Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

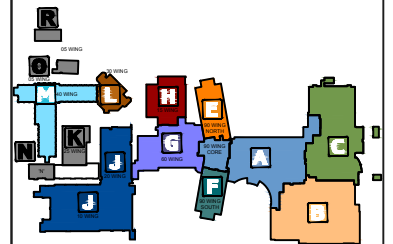
DRAWINGS: LEVEL 4 SECTIONS 'L', 'M', AND 'O' ACM ON FLOOR

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 17207030 RA-06 Floor Level 4 Juravinski
DRAWING No.	

LMO-RA06A



40 WING
CONSTRUCTED
1932



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
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6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
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10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND:

- ACM PRESENT
- SUSPECT ACM
- NO ACM PRESENT
- ACM ABATED AREAS AS PER HHS RECORDS

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JURAVINSKI SITE

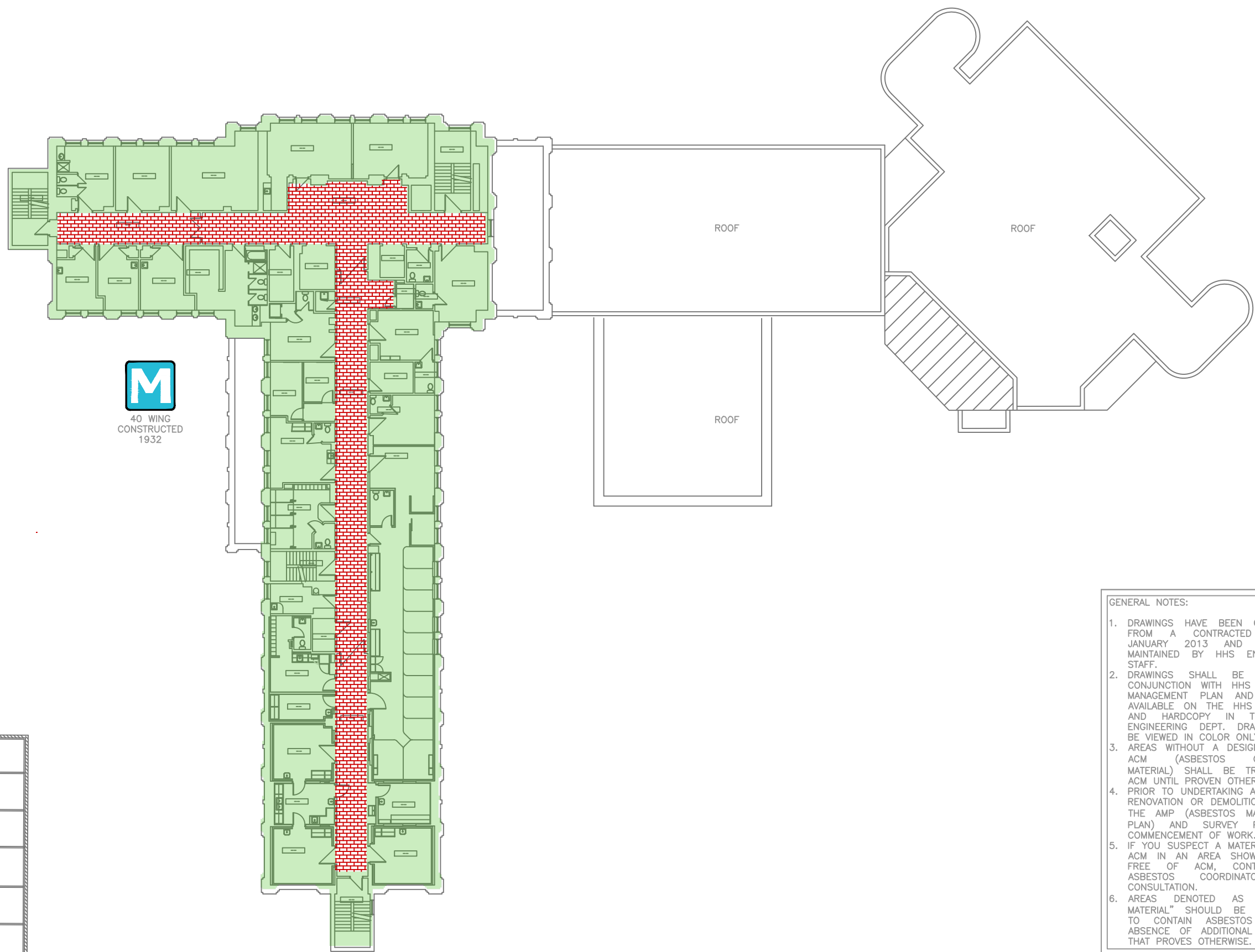


PROJECT:
JURAVINSKI HOSPITAL AND
CANCER CENTER – ASBESTOS
MANAGEMENT PLAN AND SURVEY

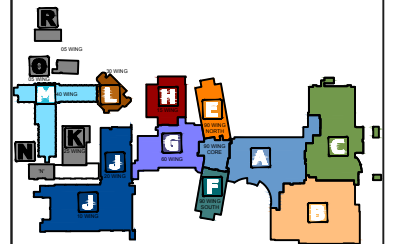
DRAWING:
LEVEL 4
SECTIONS 'L', 'M', AND 'O'
ACM WALLS

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 1720030 RA-06 Floor Level 4 Juravinski
DRAWING NO.	

LMO-RA06B



M
40 WING
CONSTRUCTED
1932



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
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2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
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11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:**
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 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS
 - ACM CEILING TILE MASTIC

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JURAVINSKI SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING:
LEVEL 4 SECTIONS 'L', 'M', AND 'O' ACM CEILING

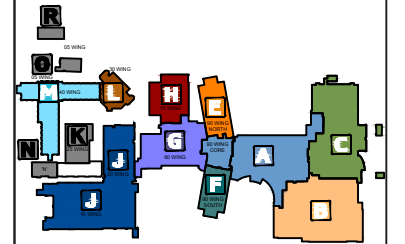
PLOT DATE: _____ **DEPARTMENT:** ENGINEERING

SCALE: N.T.S. **SUPERVISOR:** GEOFF SCHWARZ

DRAWN BY: GEOFF SCHWARZ **FILE NAME:** 17420030 RA-06 Floor Level 4 Juravinski

DRAWING No.: _____

LMO-RA06C

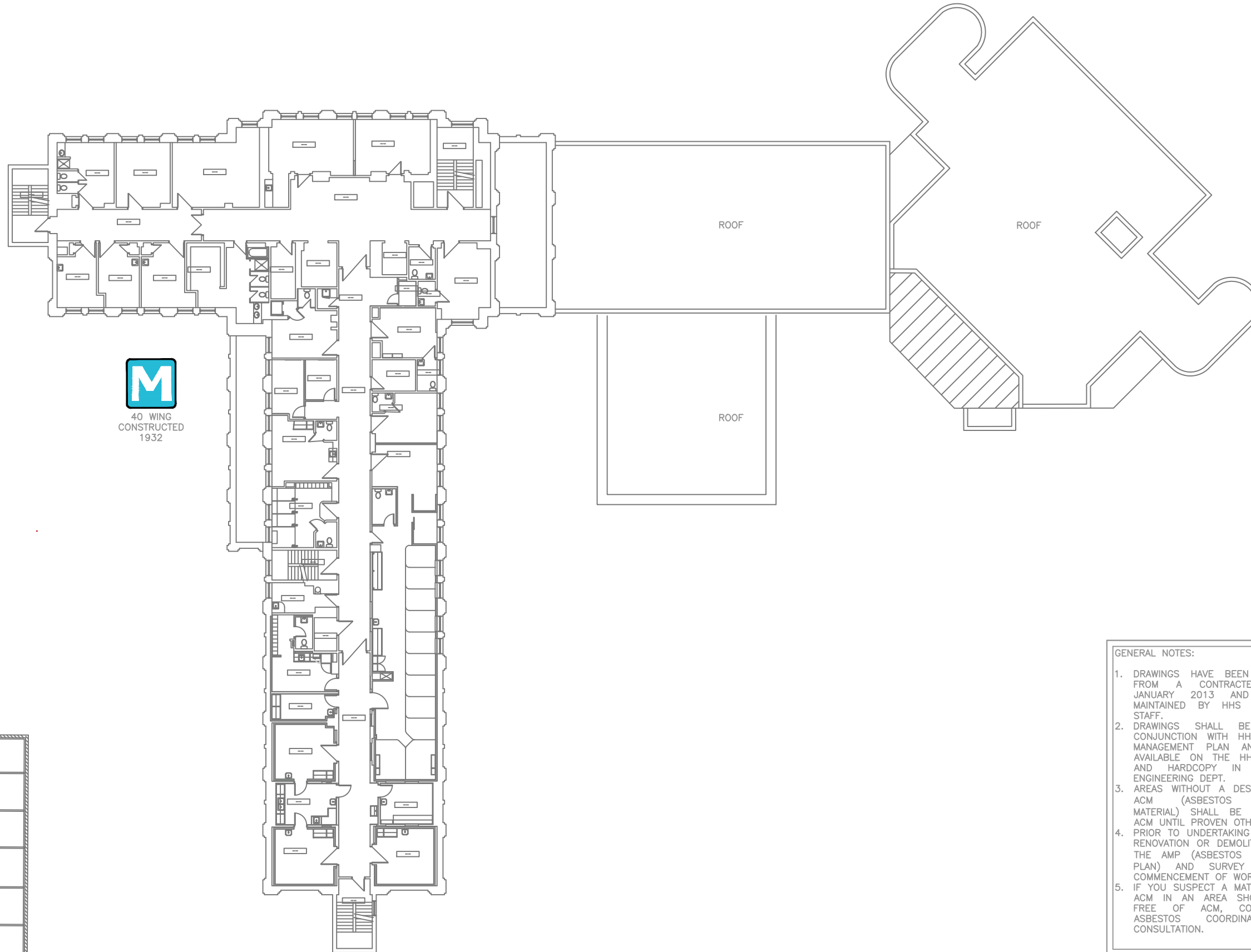


KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
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LEGEND - OTHER

PI	ACM PIPE INSULATION
DI	ACM DUCT INSULATION
MI	ACM MECHANICAL INSULATION
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T2	TYPE 2 ENTRY
T3	TYPE 3 ENTRY
TF	ACM TEXTURE FINISH
FS	ACM FIRESTOPPING
T	TRANSITE
NAR	NO ACCESS TO ROOM/AREA



M
40 WING
CONSTRUCTED
1932

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JURAVINSKI SITE

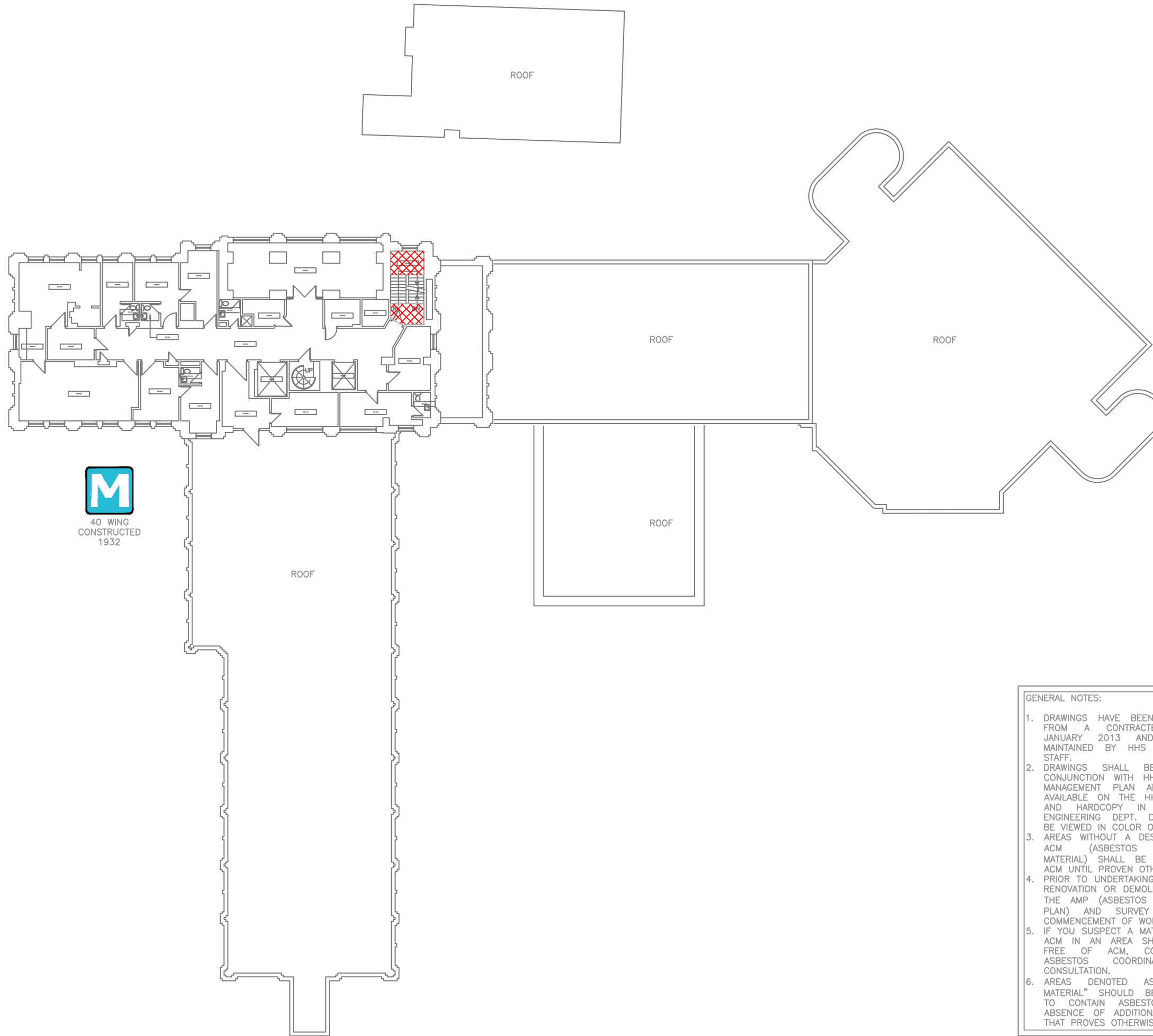
Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

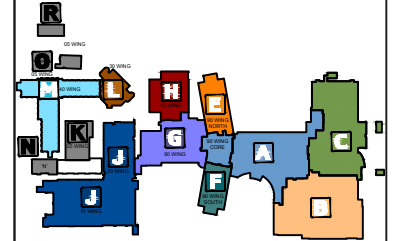
DRAWINGS:
LEVEL 4
SECTIONS 'L', 'M', AND 'O'
ACM OTHER

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 1720030 RA-06 Floor Level 4 Juravinski
DRAWING No.	

LMO-RA06D



M
40 WING
CONSTRUCTED
1932



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
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11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:
- ACM VINYL FLOOR TILES
 - ACM VINYL SHEET FLOORING
 - NO ACCESS TO ROOM/AREA
 - ACM FREE OR ABATED AREAS AS PER HHS RECORDS

GENERAL NOTES:

- DRAWINGS HAVE BEEN CONVERTED FROM A CONTRACTED SOURCE JANUARY 2013 AND WILL BE MAINTAINED BY HHS ENGINEERING STAFF.
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- AREAS DENOTED AS "SUSPECT MATERIAL" SHOULD BE PRESUMED TO CONTAIN ASBESTOS IN THE ABSENCE OF ADDITIONAL SAMPLING THAT PROVES OTHERWISE.

JURAVINSKI SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

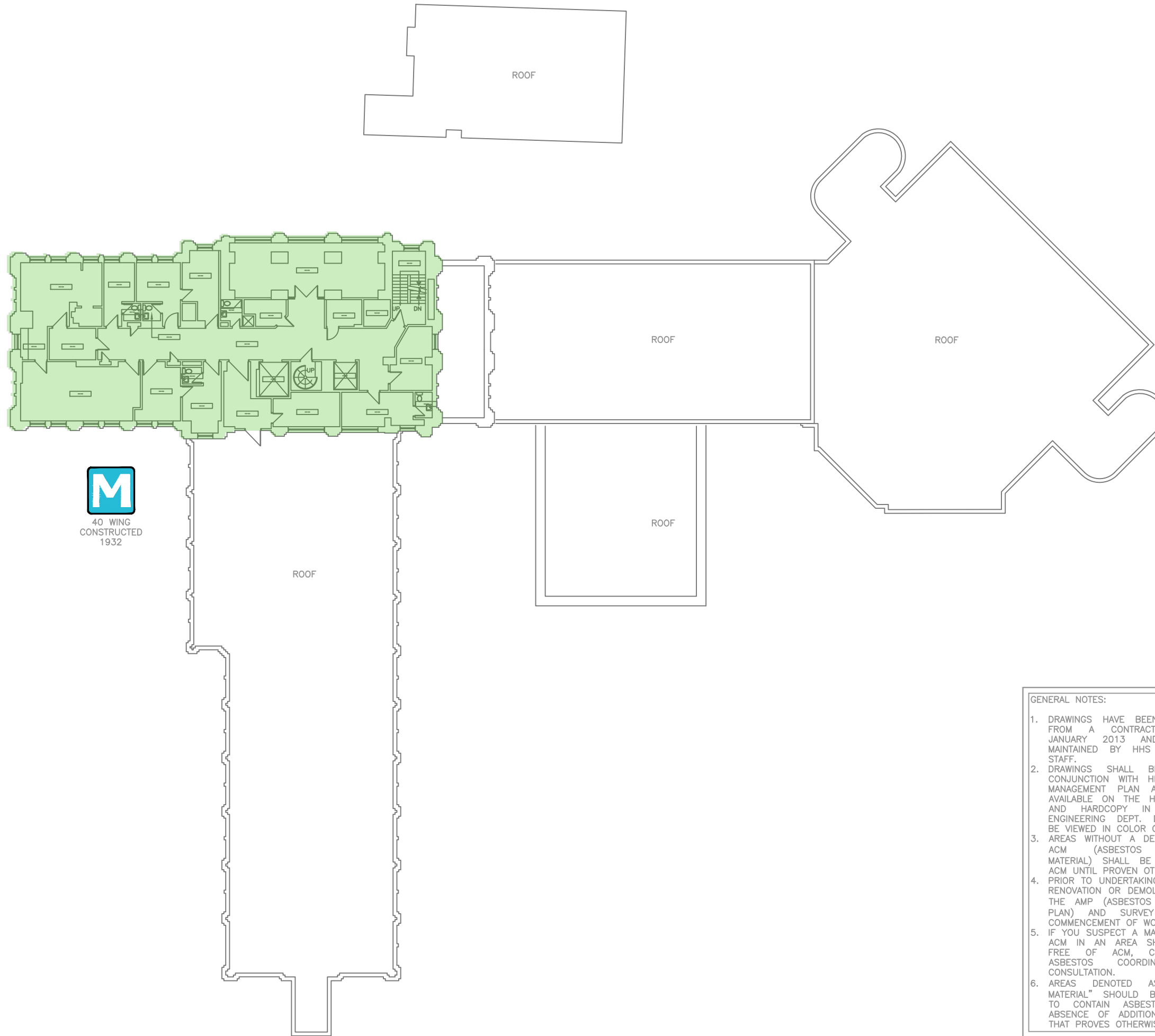
DRAWING:
LEVEL 5
SECTIONS 'L', 'M', AND 'O'
ACM ON FLOOR

PLOT DATE: _____ DEPARTMENT: ENGINEERING

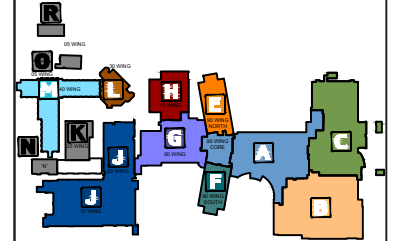
SCALE: N.T.S. SUPERVISOR: GEOFF SCHWARZ

DRAWN BY: GEOFF SCHWARZ FILE NAME: 1720030 RA-07 Floor Level 5 Juravinski

DRAWING No. **LMO-RA07A**



M
40 WING
CONSTRUCTED
1932



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:
- ACM PRESENT
 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

GENERAL NOTES:

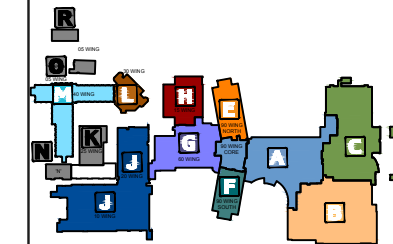
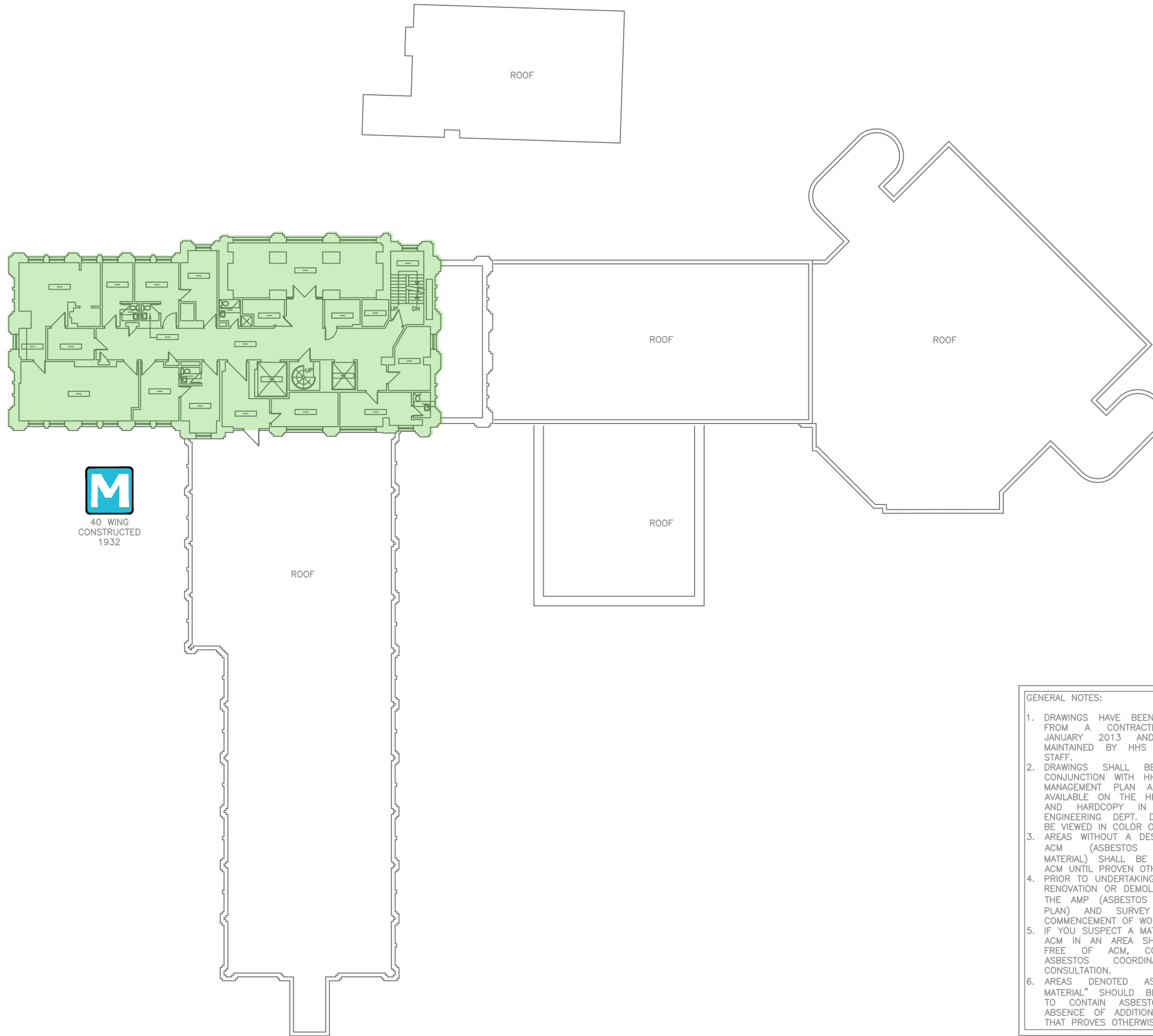
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JURAVINSKI SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY	
DRAWINGS: LEVEL 5 SECTIONS 'L', 'M', AND 'O' ACM WALLS	
PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: L1720030 RA-07 Floor Level 5 Juravinski
DRAWING NO.	

LMO-RA07B



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:**
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 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

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JURAVINSKI SITE

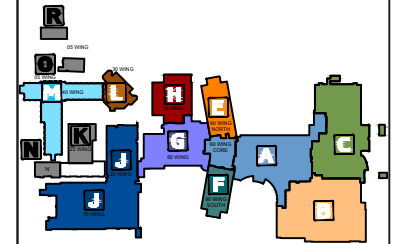
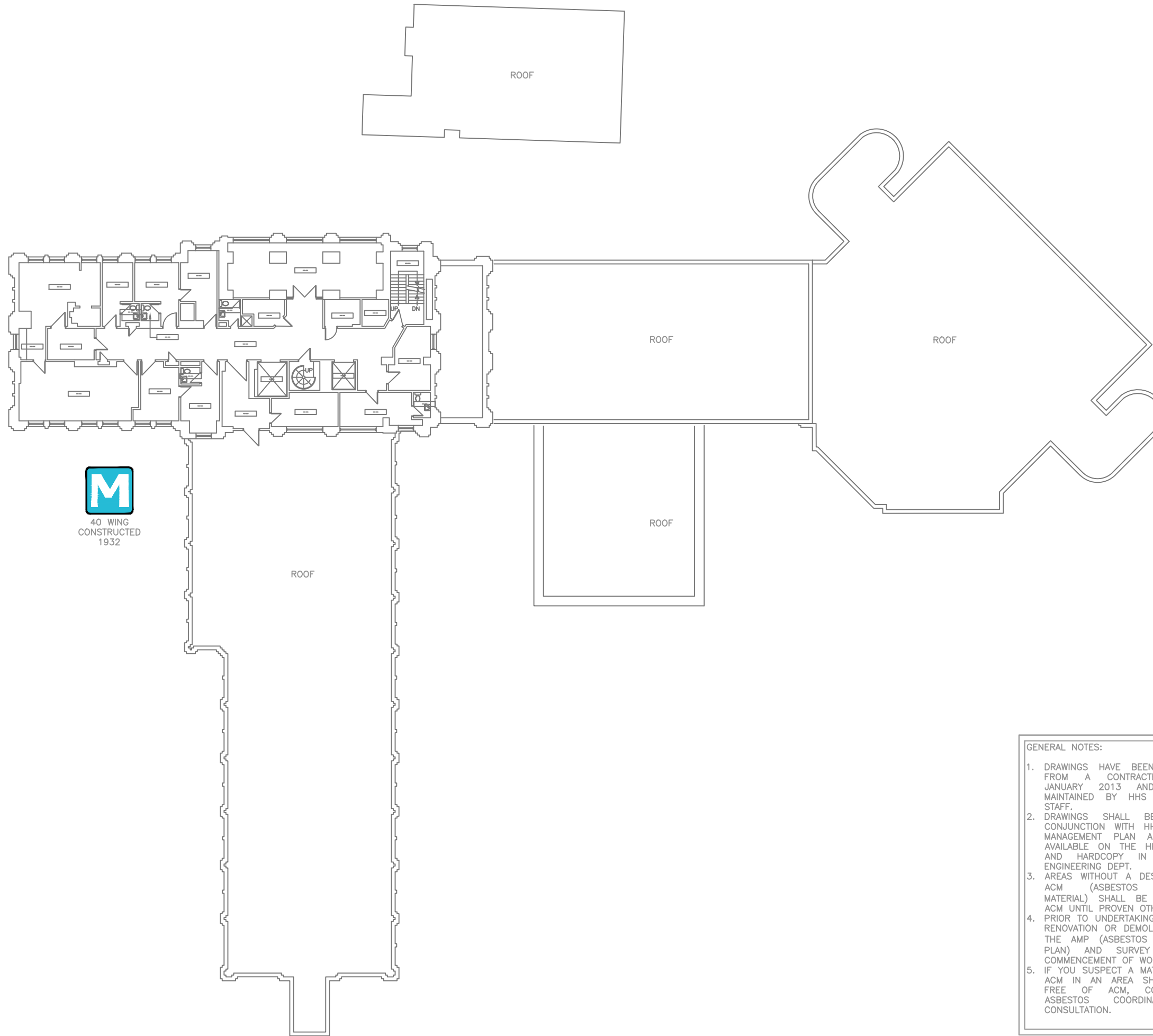


PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING:
LEVEL 5 SECTIONS 'L', 'M', AND 'O' ACM CEILING

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 1720030 RA-07 Floor Level 5 Juravinski
DRAWING No.	

LMO-RA07C



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND – OTHER

PI	ACM PIPE INSULATION
DI	ACM DUCT INSULATION
MI	ACM MECHANICAL INSULATION
T1	TYPE 1 ENTRY
T2	TYPE 2 ENTRY
T3	TYPE 3 ENTRY
TF	ACM TEXTURE FINISH
FS	ACM FIRESTOPPING
T	TRANSITE
NAR	NO ACCESS TO ROOM/AREA

GENERAL NOTES:

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JURAVINSKI SITE

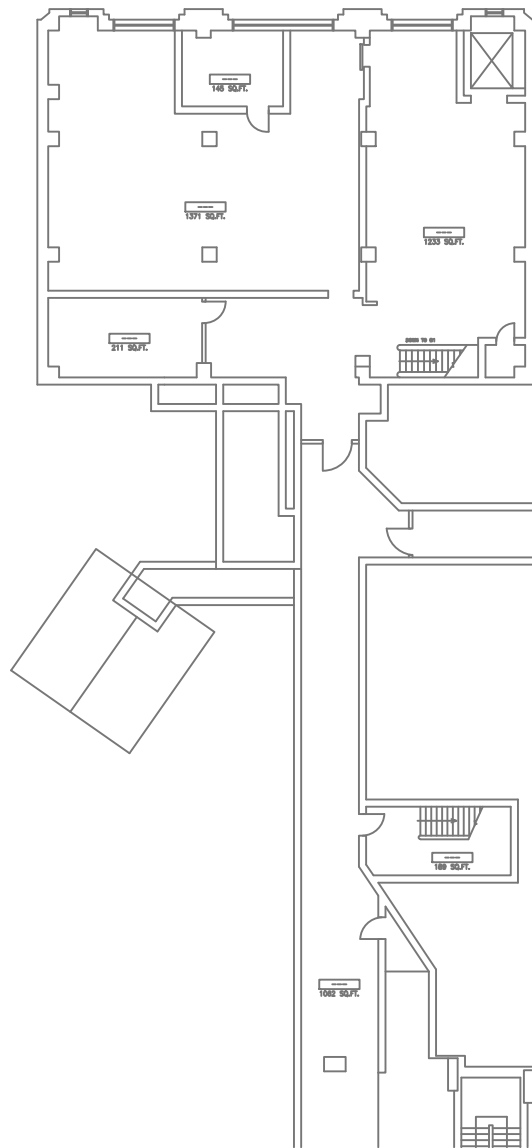
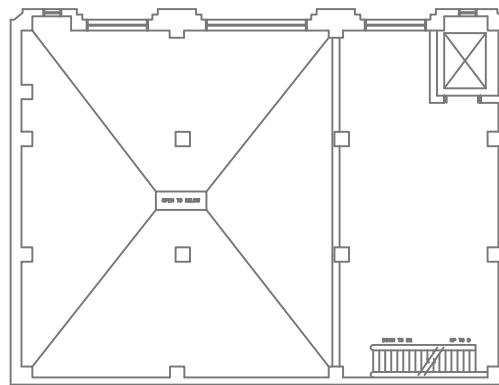
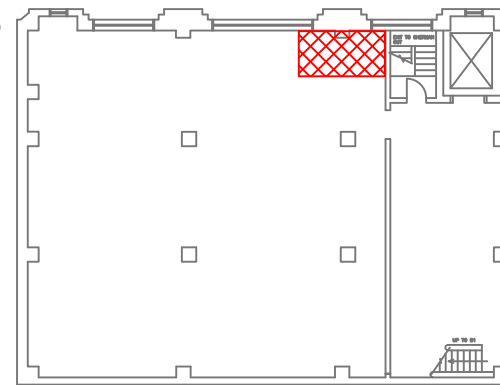
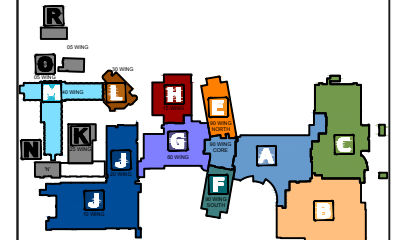
Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS:
LEVEL 5
SECTIONS 'L', 'M', AND 'O'
ACM OTHER

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 1720030 RA-07 Floor Level 5 Juravinski
DRAWING No.	

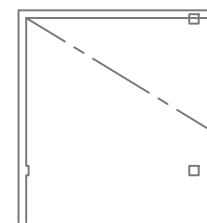
LMO-RA07D

R05 WING
CONSTRUCTED
1940
LEVEL B**R**05 WING
CONSTRUCTED
1940
LEVEL B**R**05 WING
CONSTRUCTED
1940
LEVEL B**M**40 WING
CONSTRUCTED
1932**L**30 WING
CONSTRUCTED
1982**KEY PLAN** N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	2/20/2015		REVISED BY PINCHIN LTD.	

LEGEND:

- ACM VINYL FLOOR TILES
- ACM VINYL SHEET FLOORING
- NO ACCESS TO ROOM/AREA
- ACM FREE OR ABATED AREAS AS PER HHS RECORDS



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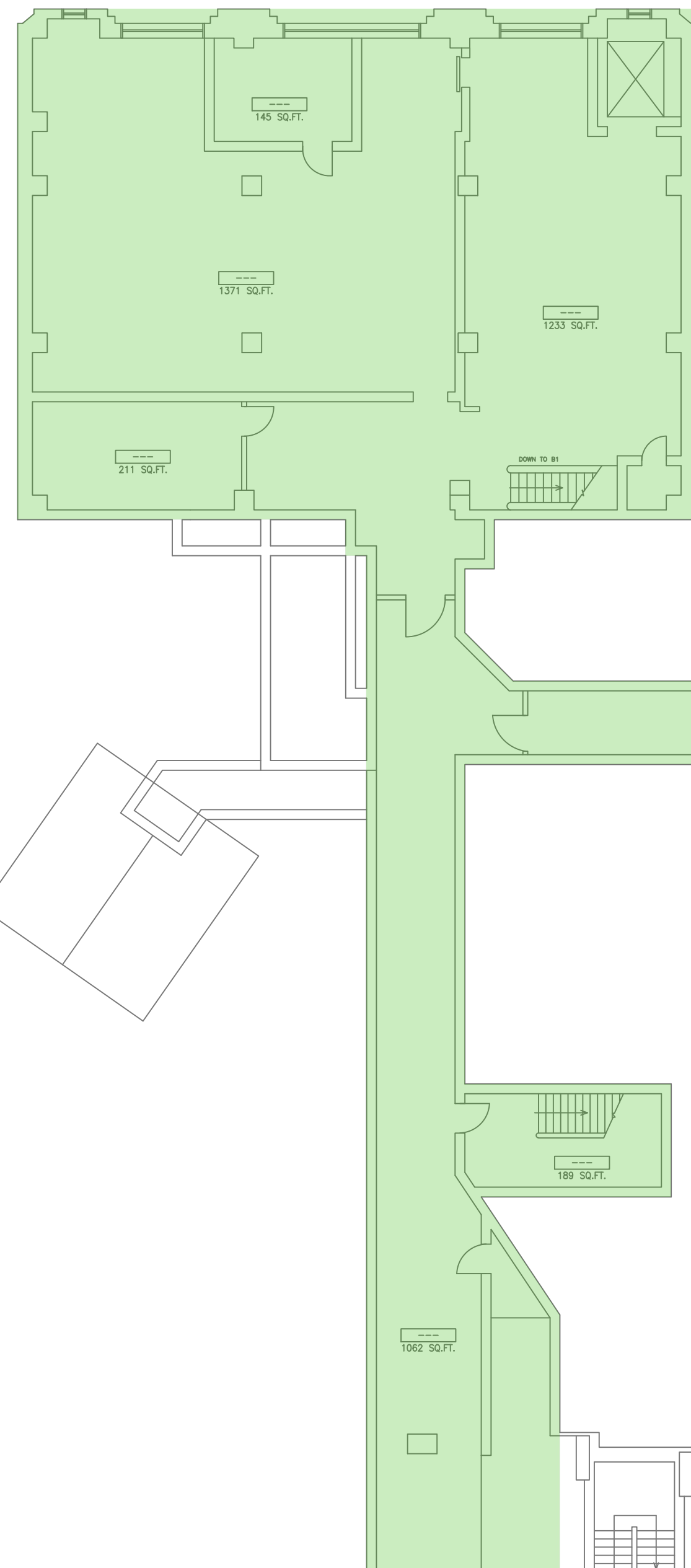
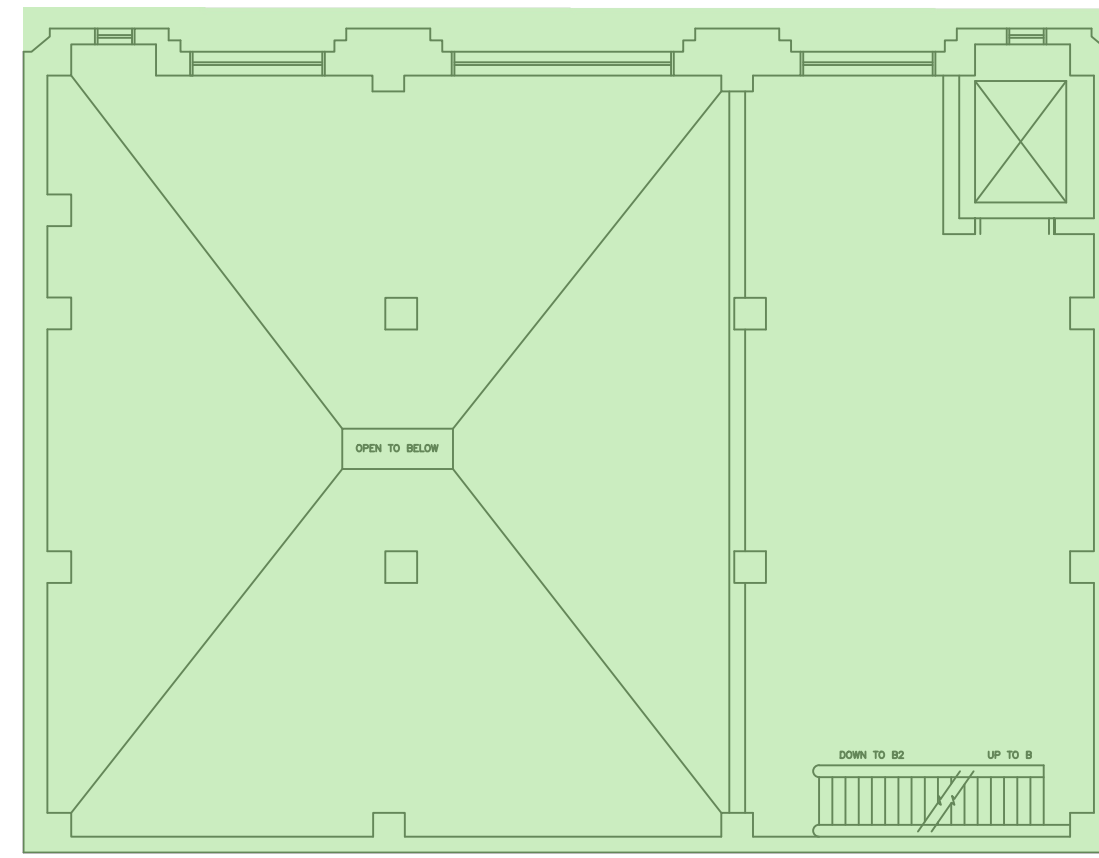
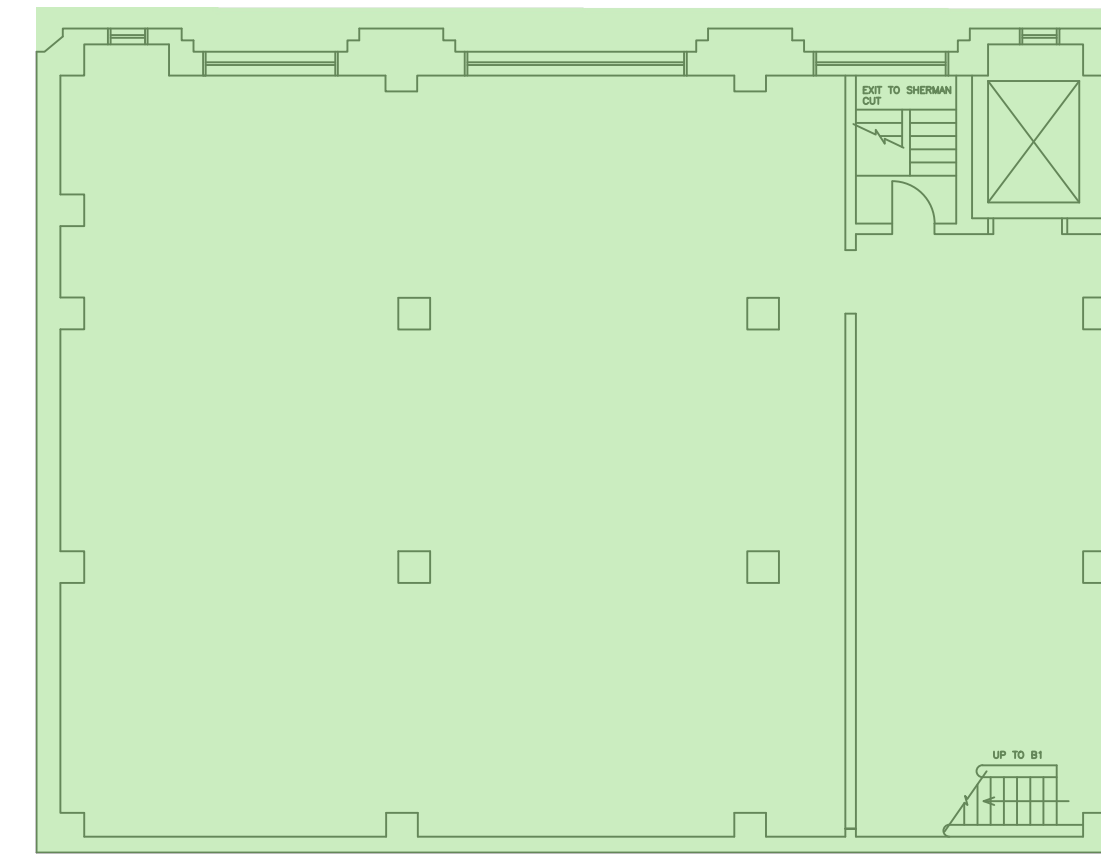
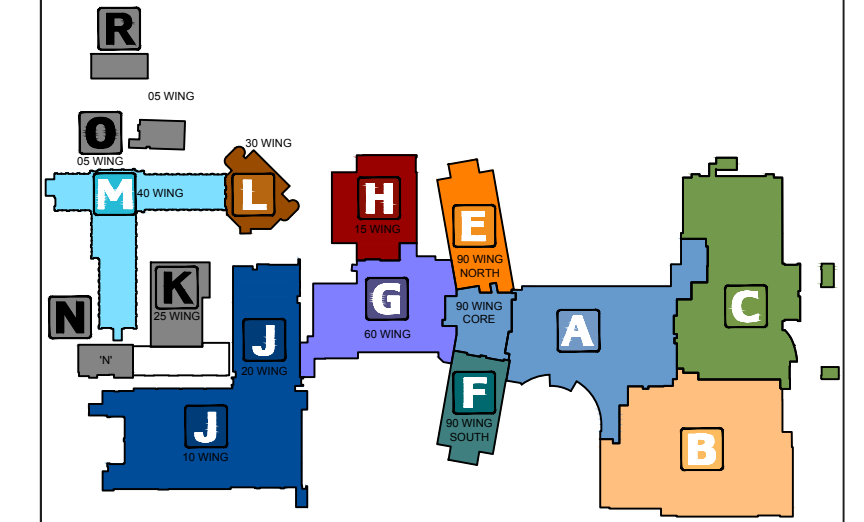
JURAVINSKI SITE

PROJECT:
JURAVINSKI HOSPITAL AND
CANCER CENTER - ASBESTOS
MANAGEMENT PLAN AND SURVEY

DRAWINGS:
LEVEL B, B1, AND B2
SECTIONS 'R'
ACM ON FLOOR

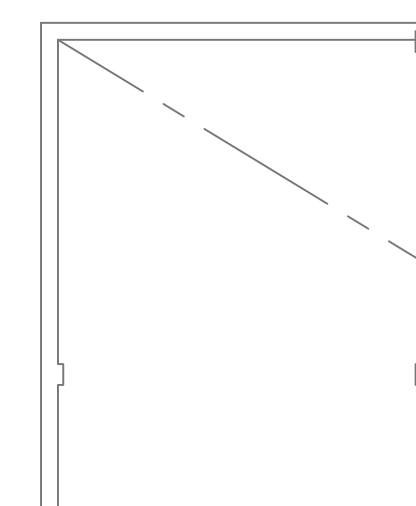
PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 21/1/2013 030 RA-01 Floor Level B Juravinski
DRAWING No.	

R-RA-01A

R05 WING
CONSTRUCTED
1940
LEVEL B**R**05 WING
CONSTRUCTED
1940
LEVEL B**R**05 WING
CONSTRUCTED
1940
LEVEL B**M**40 WING
CONSTRUCTED
1932**L**30 WING
CONSTRUCTED
1982**KEY PLAN** N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

- LEGEND:**
- ACM PRESENT IN PLASTER
 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS



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JURAVINSKI SITE

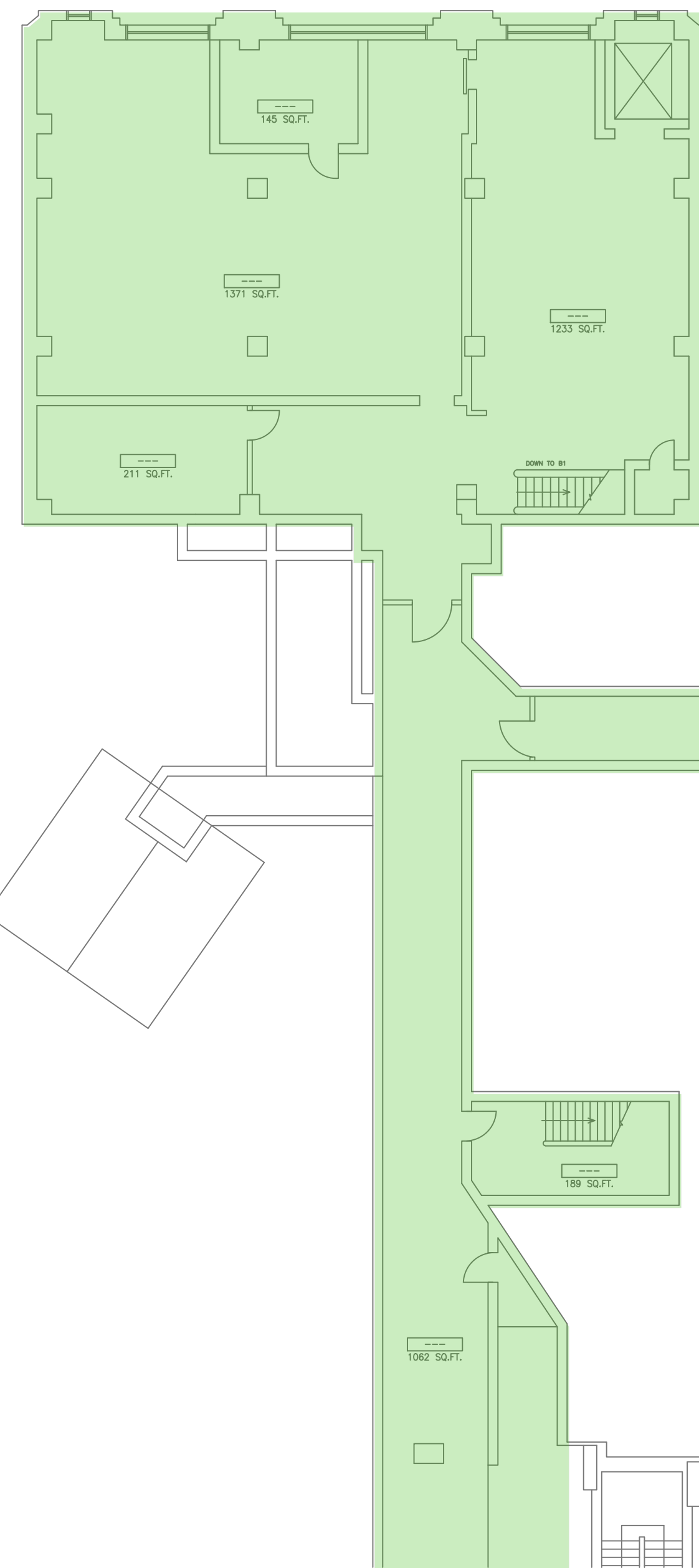
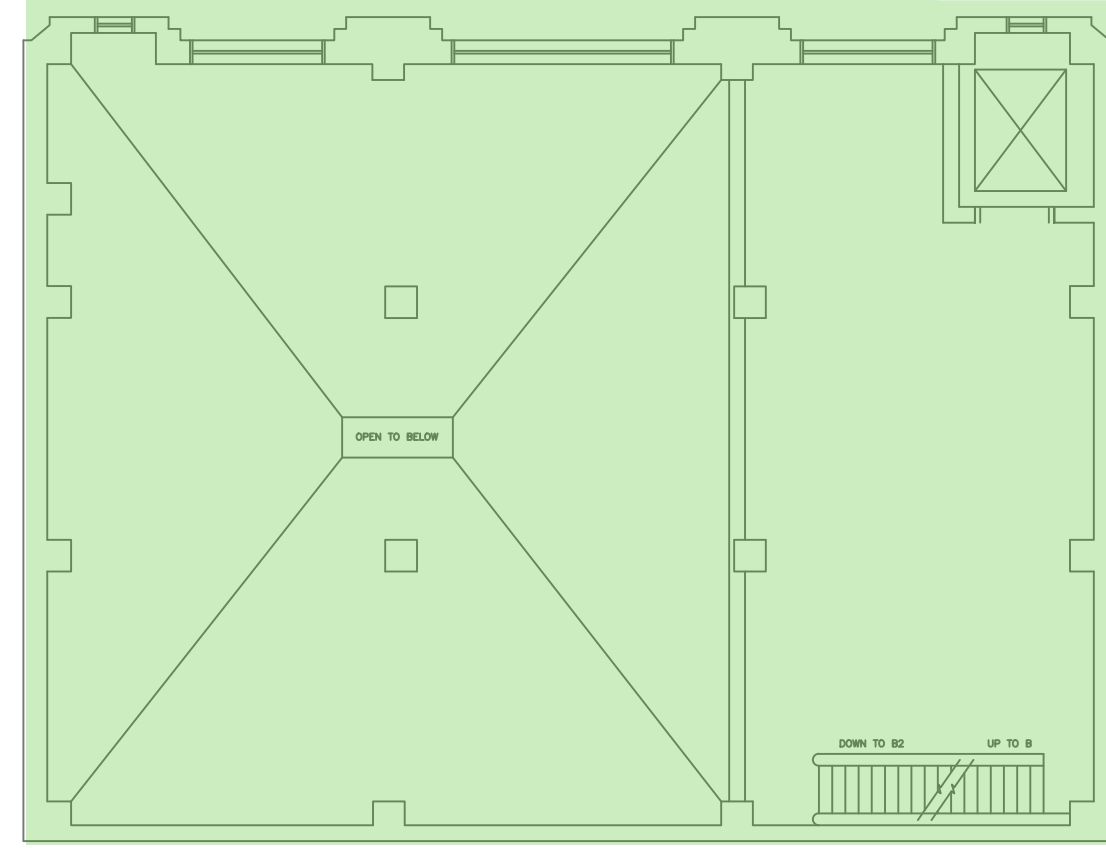
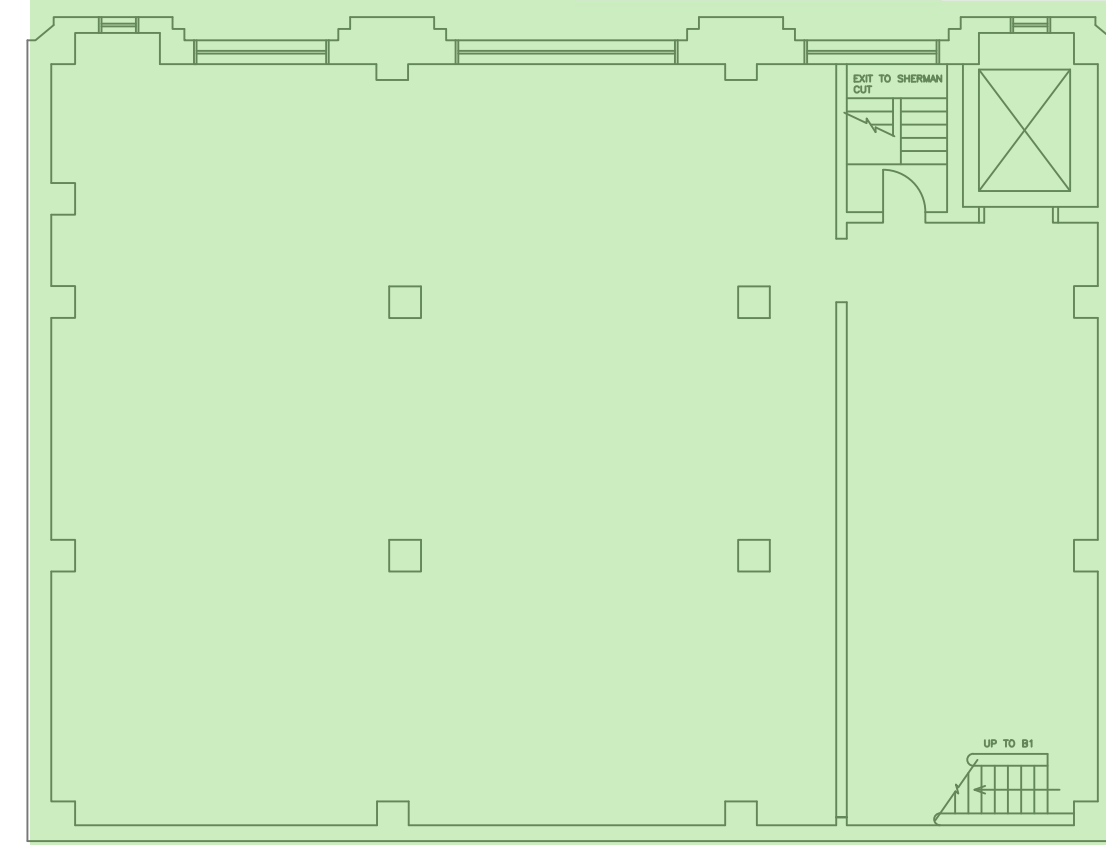
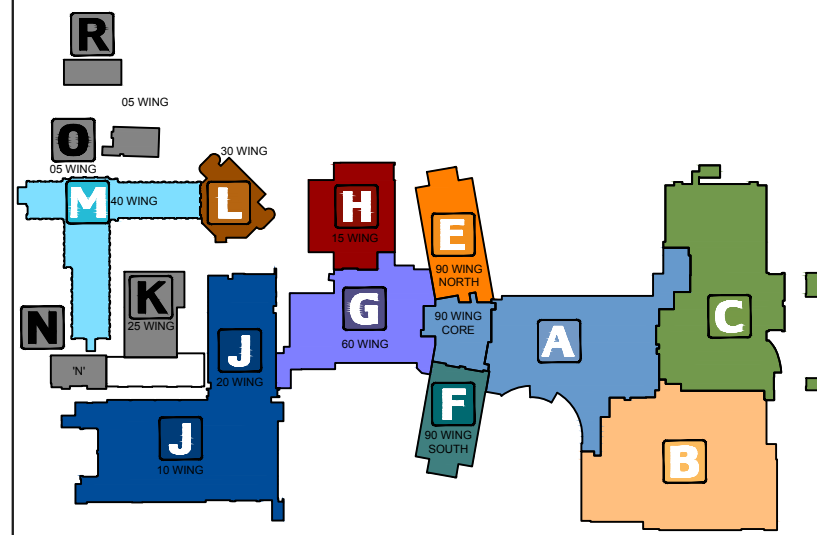
Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING: LEVEL B SECTIONS 'L', 'M', AND 'O' ACM WALLS

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: 217420.030 RA-01 Floor Level B Juravinski

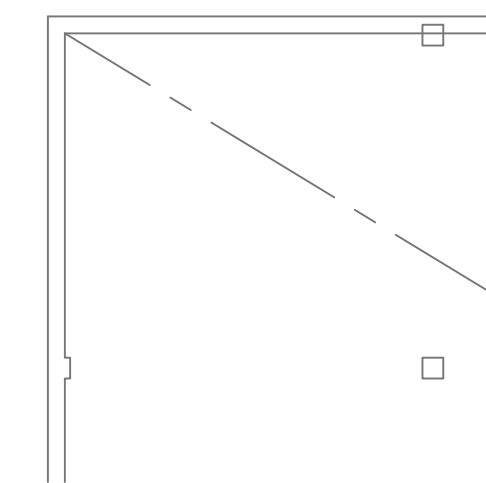
R-RA-01B

R05 WING
CONSTRUCTED
1940
LEVEL B**R**05 WING
CONSTRUCTED
1940
LEVEL B**R**05 WING
CONSTRUCTED
1940
LEVEL B**M**40 WING
CONSTRUCTED
1932**L**30 WING
CONSTRUCTED
1982**KEY PLAN** N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
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10	10/1/2013		REVIEWED WITHOUT REVISION	GS
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12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND:

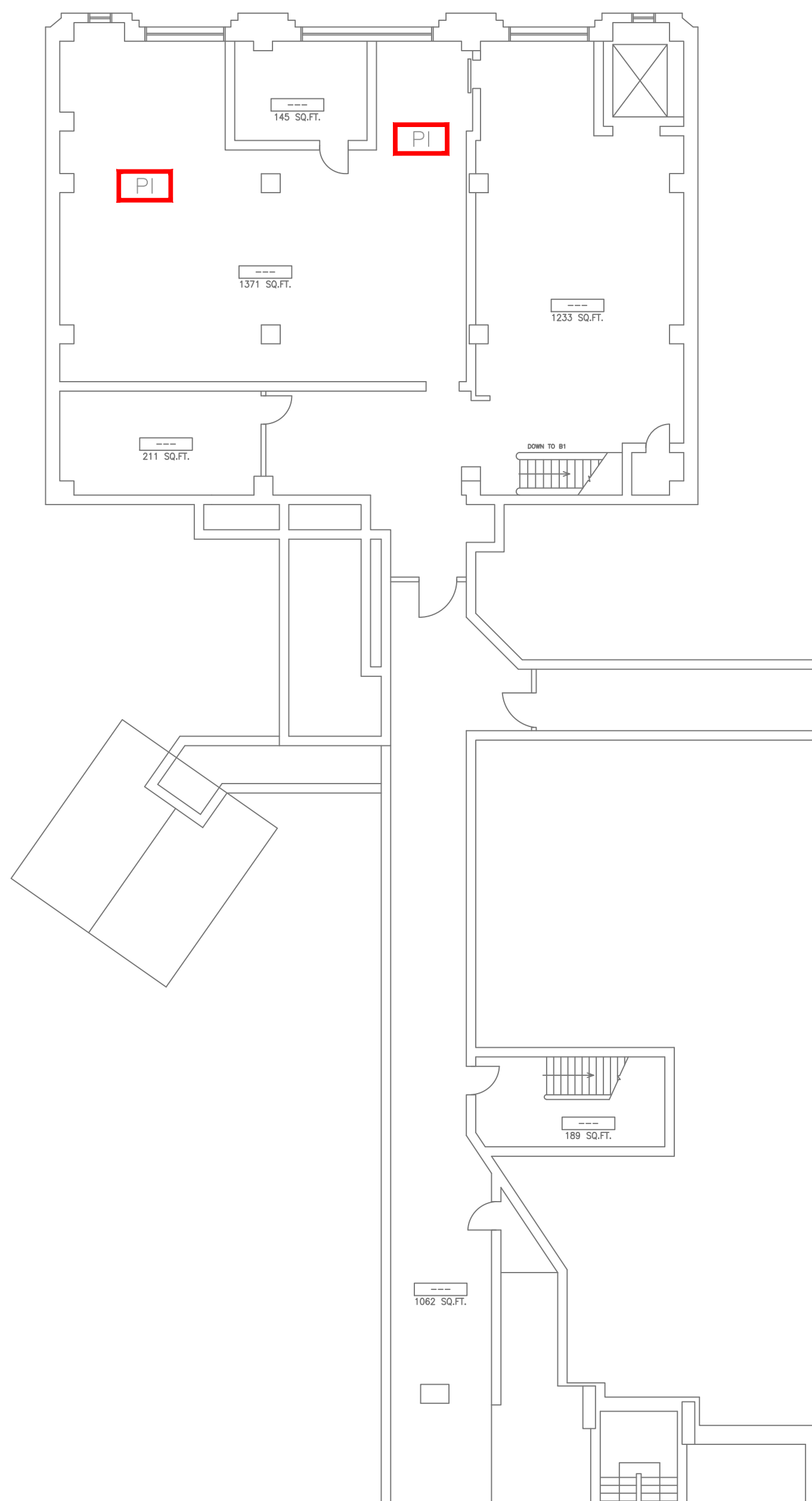
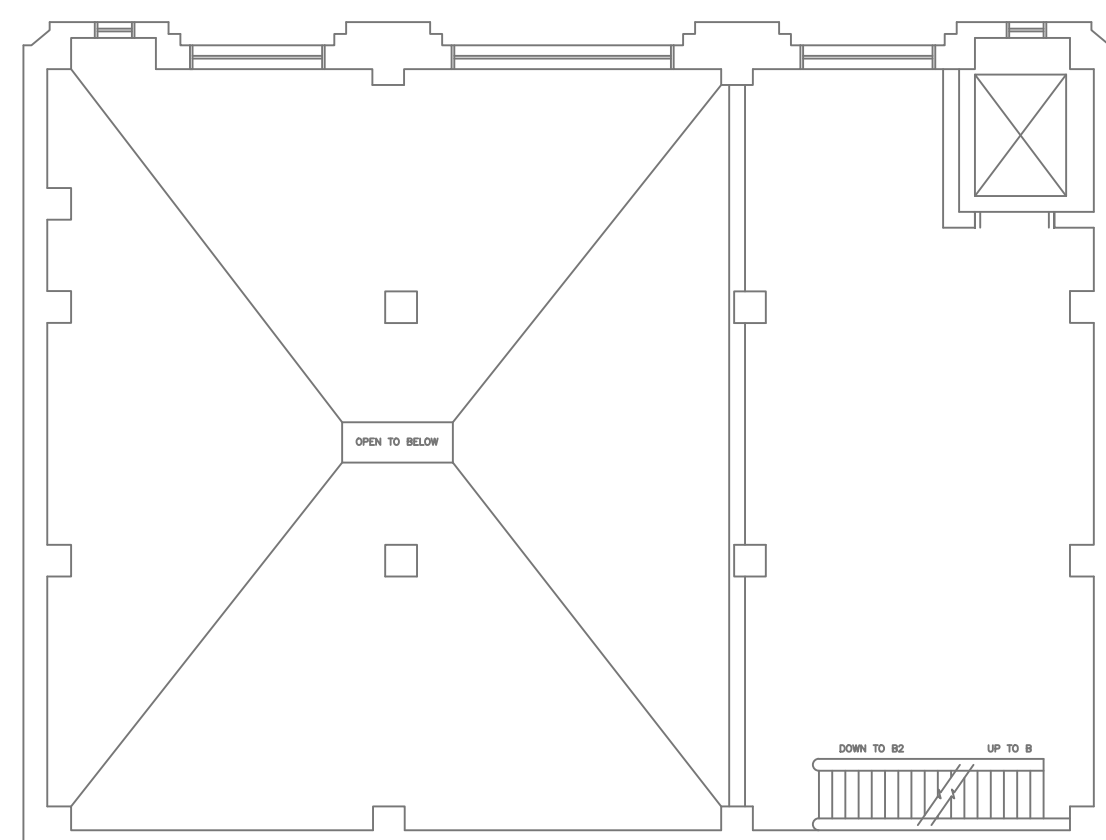
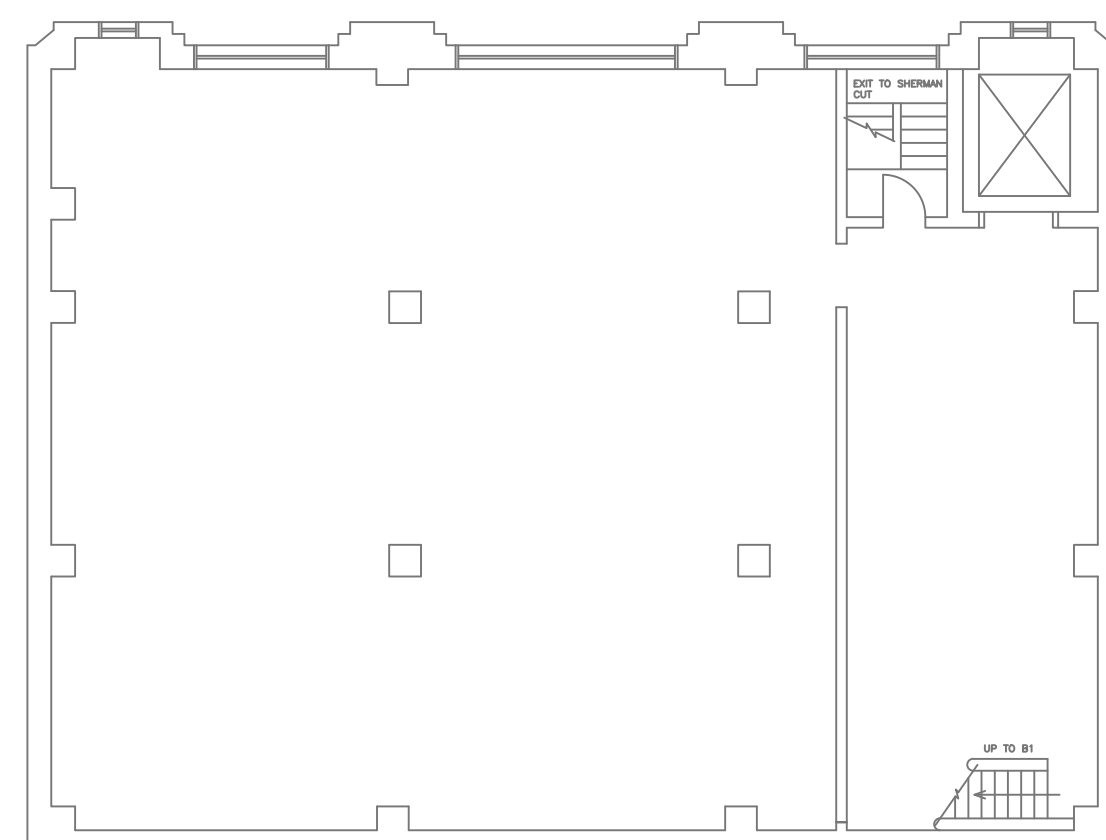
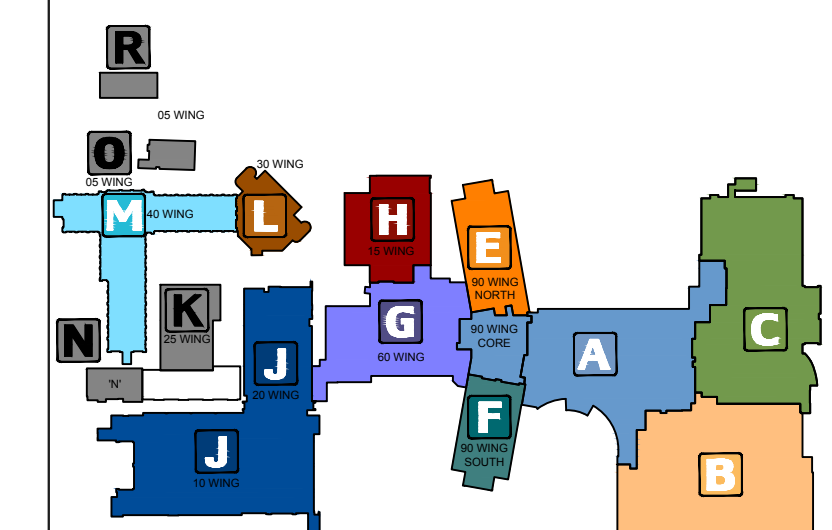
- ACM PRESENT IN PLASTER
- ACM PRESUMED. PROCEED WITH CAUTION.
- NO ACM PRESENT
- ACM ABATED AREAS AS PER HHS RECORDS



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JURAVINSKI SITEPROJECT:
JURAVINSKI HOSPITAL AND
CANCER CENTER – ASBESTOS
MANAGEMENT PLAN AND SURVEYDRAWING:
LEVEL B
SECTIONS 'L', 'M', AND 'O'
ACM CEILINGPLOT DATE: DEPARTMENT:
ENGINEERING
SCALE: SUPERVISOR:
N.T.S. GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ FILE: 1425030 RA-01 Floor
Level B JuravinskiDRAWING No.
R-RA-01C

R05 WING
CONSTRUCTED
1940
LEVEL B**R**05 WING
CONSTRUCTED
1940
LEVEL B**R**05 WING
CONSTRUCTED
1940
LEVEL B**M**40 WING
CONSTRUCTED
1932**L**30 WING
CONSTRUCTED
1982**KEY PLAN** N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
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12	1/24/2014		REVISED BY PINCHIN ENVIRONMENTAL	
13	5/27/2015		REVISED BY PINCHIN LTD.	

LEGEND - OTHER

PI	ACM PIPE INSULATION
DI	ACM DUCT INSULATION
MI	ACM MECHANICAL INSULATION
T1	TYPE 1 ENTRY
T2	TYPE 2 ENTRY
T3	TYPE 3 ENTRY
TF	ACM TEXTURE FINISH
FS	ACM FIRESTOPPING
T	TRANSITE
NAR	NO ACCESS TO ROOM/AREA

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- DRAWINGS SHALL BE READ IN CONJUNCTION WITH HHS ASBESTOS MANAGEMENT PLAN AND SURVEYS AVAILABLE ON THE HHS INTRANET, AND HARDCOPY IN THE SITES ENGINEERING DEPT.
- AREAS WITHOUT A DESIGNATION OF ACM (ASBESTOS CONTAINING MATERIAL) SHALL BE TREATED AS ACM UNTIL PROVEN OTHERWISE.
- PRIOR TO UNDERTAKING ANY REPAIR RENOVATION OR DEMOLITION, REVIEW THE AMP (ASBESTOS MANAGEMENT PLAN) AND SURVEY PRIOR TO COMMENCEMENT OF WORK.
- IF YOU SUSPECT A MATERIAL TO BE ACM IN AN AREA SHOWN TO BE FREE OF ACM, CONTACT THE ASBESTOS COORDINATOR FOR CONSULTATION.

JURAVINSKI SITEPROJECT:
JURAVINSKI HOSPITAL AND
CANCER CENTER - ASBESTOS
MANAGEMENT PLAN AND SURVEYDRAWING:
LEVEL B
SECTIONS 'L', 'M', AND 'O'
ACM OTHERPLOT DATE: DEPARTMENT:
ENGINEERING
SCALE: SUPERVISOR:
N.T.S. GEOFF SCHWARZ
DRAWN BY: FILE NO:
GEOFF SCHWARZ 1425030 RA-01 Floor
Level B JuravinskiDRAWING No.
R-RA-01D

APPENDIX II
Asbestos Analytical Certificates



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005

Lab Reference No.: b54891
Analyst(s): I. Seddon

Date Received: August 19, 2008
Date Analyzed: August 22, 2008
Samples submitted: 22
Phases analyzed: 29

Method of Analysis:

EPA 600/R-93/116 - Method for the Determination of Asbestos in Bulk Building Materials dated July, 1993

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. The percentage range category reported reflects the level of uncertainty of the method for estimating quantities of asbestos in bulk samples. A reported concentration of less than (<) the regulatory threshold (see chart below) indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with all provincial regulatory requirements (NIOSH 9002, I.R.S.S.T. 244-2). Multiple phases within a sample are analyzed separately.

Provincial Jurisdiction	Regulatory Threshold	Provincial Jurisdiction	Regulatory Threshold
Ontario	0.5%	Manitoba	0.1% friable 1% non-friable
Quebec	0.1%	Saskatchewan	Unstated, likely 1.0%
Alberta, British Columbia, NWT, Yukon, Nunavut	1.0%	Atlantic Provinces (NL, NS, PEI, NB)	1.0%

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

Pinchin Environmental Ltd. is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 101270-0 and 200795-0) for selected test methods for the identification of asbestos in bulk samples and meets all requirements of ISO/IEC 17025:1999 and relevant requirements of ISO 9002:1994.

NOTE: *This test report may not be reproduced, except in full, without the written approval of the laboratory. The client may not use this report to claim product endorsement by NVLAP or any agency of the U.S. Government. This report is valid only when signed in blue ink by the analyst and the laboratory manager.*



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54891
Date Analyzed: August 22, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
001a Plaster wall/ceiling - 60 Wing - GF - janitors	a) Homogeneous, grey, hard, cementitious material.	Chrysotile < 0.5%	Non-Fibrous Material > 75%
	b) Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
Comments:	Phase a) is small in size. For more reliable results, a larger sample is required.		
001b Plaster wall/ceiling - 60 Wing - GF - janitors	a) Homogeneous, grey, hard, cementitious material.	Chrysotile < 0.5%	Non-Fibrous Material > 75%
	b) Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
Comments:	Phase a) is small in size. For more reliable results, a larger sample is required.		
001c Plaster wall/ceiling - 60 Wing - GF - janitors	a) Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
Comments:	Phase a) is small in size. For more reliable results, a larger sample is required.		
001d Plaster wall/ceiling - 60 Wing - 2nd f - janitors	Homogeneous, grey, hard, cementitious material.	Chrysotile < 0.5%	Non-Fibrous Material > 75%

ANALYST: _____



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
 Project No.: 46653.005
 Prepared For: Damian Palus

Lab Reference No.: b54891
 Date Analyzed: August 22, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
001e Plaster wall/ceiling - 60 Wing - 2nd f - janitors	Homogeneous, grey, hard, cementitious material.	Chrysotile < 0.5%	Non-Fibrous Material > 75%
001f Plaster wall/ceiling - 60 Wing - 2nd f - janitors	Homogeneous, grey, hard, cementitious material.	Chrysotile < 0.5%	Non-Fibrous Material > 75%
001g Plaster wall/ceiling - 60 Wing - 2nd f - janitors	2 Phases: a) Homogeneous, grey, hard, cementitious material.	Chrysotile < 0.5%	Non-Fibrous Material > 75%
	b) Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
002a 9" vinyl floor tiles - white with brown line - GF - corridor - 60W	Homogeneous, off-white, consolidated material.	Chrysotile 0.5-5%	Non-Fibrous Material > 75%
Comments:	Vinyl floor tiles may contain very fine asbestos fibres which are not visible using the PLM method, therefore the estimated percentage of asbestos in this sample should be treated as a minimum value only. There is an insufficient amount of mastic in this sample to analyze.		
002b 9" vinyl floor tiles - white with brown line - GF - corridor - 60W			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result. There is no mastic present in this sample.		

ANALYST: _____



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54891
Date Analyzed: August 22, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
002c 9" vinyl floor tiles - white with brown line - GF - corridor - 60W	2 Phases: a) Homogeneous, off-white, consolidated material. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Not Analyzed Tar and other non-fibrous > 75%
Comments:	Phase b) is small in size. For more reliable results, a larger sample is required. Analysis of phase a) was stopped due to a previous positive result.		
003a 12" vinyl floor tiles - white with black fleck - GF corridor 60W	2 Phases: a) Homogeneous, off-white, consolidated material. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected None Detected	Non-Fibrous Material > 75% Tar and other non-fibrous > 75%
Comments:	Vinyl floor tiles may contain very fine asbestos fibres which are not visible using the PLM method. For confirmation of the absence of asbestos, analysis by Transmission Electron Microscopy (TEM) is necessary.		

ANALYST: _____



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54891
Date Analyzed: August 22, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
003b 12" vinyl floor tiles - white with black fleck - GF corridor 60W	2 Phases: a) Homogeneous, off-white, consolidated material. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
		None Detected	Tar and other non-fibrous > 75%
Comments:	Vinyl floor tiles may contain very fine asbestos fibres which are not visible using the PLM method. For confirmation of the absence of asbestos, analysis by Transmission Electron Microscopy (TEM) is necessary.		
003c 12" vinyl floor tiles - white with black fleck - GF corridor 60W	2 Phases: a) Homogeneous, off-white, consolidated material. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
		None Detected	Tar and other non-fibrous > 75%
Comments:	Vinyl floor tiles may contain very fine asbestos fibres which are not visible using the PLM method. For confirmation of the absence of asbestos, analysis by Transmission Electron Microscopy (TEM) is necessary.		
004a Tar on drain fitting - GF corridor 60W	Homogeneous, black, tar material.	Chrysotile 5-10%	Tar and other non-fibrous > 75%
004b Tar on drain fitting - GF corridor 60W			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		

ANALYST: 



THE PINCHIN GROUP

Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54891
Date Analyzed: August 22, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
004c Tar on drain fitting - GF corridor 60W			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		
005a Sweatwrap - drain pipe - GF corridor 60W	2 Phases: a) Homogeneous, brown, layered paper. b) Homogeneous, black, tar impregnated fibrous material.	None Detected None Detected	Cellulose > 75% Non-Fibrous Material 0.5-5% Cellulose > 75% Tar and other non-fibrous 10-25%
005b Sweatwrap - drain pipe - GF corridor 60W	2 Phases: a) Homogeneous, brown, layered paper. b) Homogeneous, black, tar impregnated fibrous material.	None Detected None Detected	Cellulose > 75% Non-Fibrous Material 0.5-5% Cellulose > 75% Tar and other non-fibrous 10-25%
005c Sweatwrap - drain pipe - GF corridor 60W	2 Phases: a) Homogeneous, brown, layered paper. b) Homogeneous, black, tar impregnated fibrous material.	None Detected None Detected	Cellulose > 75% Non-Fibrous Material 0.5-5% Cellulose > 75% Tar and other non-fibrous 10-25%
006a Rough plaster ceiling - stairwell - GF - 60W	Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%

ANALYST: _____



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54891
Date Analyzed: August 22, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
006b Rough plaster ceiling - stairwell - GF - 60W	Homogeneous, grey, hard, cementitious material.	Chrysotile < 0.5%	Non-Fibrous Material > 75%
006c Rough plaster ceiling - stairwell - GF - 60W	Homogeneous, grey, hard, cementitious material.	None Detected	Cellulose 0.5-5% Non-Fibrous Material > 75%

ANALYST: 



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name:	Hamilton Health Sciences - Henderson	Date Received:	August 19, 2008
Project No.:	46653.005	Date Analyzed:	August 21, 2008
Lab Reference No.:	b54892	# Samples submitted:	22
Analyst(s):	A. Brown	# Phases analyzed:	27

Method of Analysis:

EPA 600/R-93/116 - Method for the Determination of Asbestos in Bulk Building Materials dated July, 1993

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. The percentage range category reported reflects the level of uncertainty of the method for estimating quantities of asbestos in bulk samples. A reported concentration of less than (<) the regulatory threshold (see chart below) indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with all provincial regulatory requirements (NIOSH 9002, I.R.S.S.T. 244-2). Multiple phases within a sample are analyzed separately.

Provincial Jurisdiction	Regulatory Threshold	Provincial Jurisdiction	Regulatory Threshold
Ontario	0.5%	Manitoba	0.1% friable 1% non-friable
Quebec	0.1%	Saskatchewan	Unstated, likely 1.0%
Alberta, British Columbia, NWT, Yukon, Nunavut	1.0%	Atlantic Provinces (NL, NS, PEI, NB)	1.0%

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

Pinchin Environmental Ltd. is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 101270-0 and 200795-0) for selected test methods for the identification of asbestos in bulk samples and meets all requirements of ISO/IEC 17025:1999 and relevant requirements of ISO 9002:1994.

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Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54892
Date Analyzed: August 21, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
007a 9" vinyl floor tiles- brown with thin brown line- F1-90WS corridor	2 Phases: a) Homogeneous, beige, consolidated material.	Chrysotile	5-10% Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile	< 0.5% Tar and other non-fibrous > 75%
Comments:	Vinyl floor tiles may contain very fine asbestos fibres which are not visible using the PLM method, therefore the estimated percentage of asbestos in this sample should be treated as a minimum value only. Phase b) is small in size. For more reliable results, a larger sample is required. The asbestos present in Phase b) may be due to contamination.		
007b 9" vinyl floor tiles- brown with thin brown line- F1-90WS corridor	2 Phases: a) Homogeneous, beige, consolidated material.		Not Analyzed
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other non-fibrous > 75%
Comments:	Analysis of Phase a) was stopped due to a previous positive result. Phase b) is small in size. For more reliable results, a larger sample is required.		

ANALYST: A. BROWN



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54892
Date Analyzed: August 21, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
007c 9" vinyl floor tiles- brown with thin brown line- F1-90WS corridor	2 Phases: a) Homogeneous, beige, consolidated material. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Not Analyzed Tar and other non-fibrous > 75%
Comments:	Analysis of Phase a) was stopped due to a previous positive result. Phase b) is small in size. For more reliable results, a larger sample is required.		
008a 12" vinyl floor tiles- brown with dark brown fleck- GF R-12- 60W	Homogeneous, beige, consolidated material.	Chrysotile 0.5-5%	Non-Fibrous Material > 75%
Comments:	Vinyl floor tiles may contain very fine asbestos fibres which are not visible using the PLM method, therefore the estimated percentage of asbestos in this sample should be treated as a minimum value only. Mastic present in sample was too small to analyze.		
008b 12" vinyl floor tiles- brown with dark brown fleck- GF R-12- 60W			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		

ANALYST: A. Brown



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54892
Date Analyzed: August 21, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
008c 12" vinyl floor tiles- brown with dark brown fleck- GF R-12- 60W			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		
009a 12" vinyl floor tiles- beige with brown line- GF R-10- 60W	2 Phases: a) Homogeneous, beige, consolidated material. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile None Detected	0.5-5% Non-Fibrous Material > 75% Tar and other non- fibrous > 75%
Comments:	Vinyl floor tiles may contain very fine asbestos fibres which are not visible using the PLM method, therefore the estimated percentage of asbestos in this sample should be treated as a minimum value only.		
009b 12" vinyl floor tiles- beige with brown line- GF R-10- 60W	2 Phases: a) Homogeneous, beige, consolidated material. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Not Analyzed Tar and other non- fibrous > 75%
Comments:	Analysis of Phase a) was stopped due to a previous positive result.		

ANALYST: A. Brown



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54892
Date Analyzed: August 21, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
009c 12" vinyl floor tiles- beige with brown line- GF R-10- 60W	2 Phases: a) Homogeneous, beige, consolidated material. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Not Analyzed Tar and other non- fibrous > 75%
Comments:	Analysis of Phase a) was stopped due to a previous positive result.		
010a Drywall compound- wall- GF R19- 60W	Homogeneous, white, soft, cementitious material.	None Detected	Non-Fibrous Material > 75%
010b Drywall compound- wall- GF R19- 60W	Homogeneous, white, soft, cementitious material.	None Detected	Non-Fibrous Material > 75%
010c Drywall compound- wall- GF R19- 60W	Homogeneous, white, soft, cementitious material.	None Detected	Non-Fibrous Material > 75%
011a 9" vinyl floor tiles- brown with white/brown line- R4-GF- 60W	Homogeneous, brown, consolidated material.	Chrysotile 0.5-5%	Non-Fibrous Material > 75%
Comments:	Vinyl floor tiles may contain very fine asbestos fibres which are not visible using the PLM method, therefore the estimated percentage of asbestos in this sample should be treated as a minimum value only. Mastic present in sample was too small to analyze.		

ANALYST: A. Brown



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
 Project No.: 46653.005
 Prepared For: Damian Palus

Lab Reference No.: b54892
 Date Analyzed: August 21, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
011b 9" vinyl floor tiles- brown with white/brown line- R4-GF- 60W			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result. No mastic was present.		
011c 9" vinyl floor tiles- brown with white/brown line- R4-GF- 60W			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result. No mastic was present.		
017a Plaster- wall/ ceiling- GF- 90W	2 Phases: a) Homogeneous, grey, hard, cementitious material. b) Homogeneous, white, hard, cementitious material.	None Detected None Detected	Non-Fibrous Material > 75% Non-Fibrous Material > 75%
Comments:	Phase a) is small in size. For more reliable results, a larger sample is required.		
017b Plaster- wall/ ceiling- GF- 90W	Homogeneous, white, soft, cementitious material.	None Detected	Non-Fibrous Material > 75%
Comments:	Plaster is too small to analyze.		

ANALYST: A. Brown



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54892
Date Analyzed: August 21, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
017c Plaster- wall/ ceiling- GF-90W	3 Phases: a) Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
	c) Homogeneous, white, soft, cementitious material.	None Detected	Non-Fibrous Material > 75%
Comments:	Phase a) and b) are small in size.		
017d Plaster wall/ ceiling- electrical room-3rd f- 90w	2 Phases: Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
	Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%

ANALYST: A. Brown



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54892
Date Analyzed: August 21, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
017e Plaster wall/ ceiling- electrical room-3rd f- 90 w	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
017f Plaster wall/ ceiling- electrical room-3rd f- 90 w	2 Phases: Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
	Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
Comments:	Phase a) is small in size.		
017g Plaster wall/ ceiling- electrical room-3rd f- 90 w	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
Comments:	Phase a) is small in size.		

ANALYST: A. Brown



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name:	Hamilton Health Sciences - Henderson		
Project No.:	46653.005		
Lab Reference No.:	b54893	Date Received:	August 19, 2008
Analyst(s):	K. Cockburn-Swance	Date Analyzed:	August 22, 2008
		# Samples submitted:	24
		# Phases analyzed:	23

Method of Analysis:

EPA 600/R-93/116 - Method for the Determination of Asbestos in Bulk Building Materials dated July, 1993

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. The percentage range category reported reflects the level of uncertainty of the method for estimating quantities of asbestos in bulk samples. A reported concentration of less than (<) the regulatory threshold (see chart below) indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with all provincial regulatory requirements (NIOSH 9002, I.R.S.S.T. 244-2). Multiple phases within a sample are analyzed separately.

Provincial Jurisdiction	Regulatory Threshold	Provincial Jurisdiction	Regulatory Threshold
Ontario	0.5%	Manitoba	0.1% friable 1% non-friable
Quebec	0.1%	Saskatchewan	Unstated, likely 1.0%
Alberta, British Columbia, NWT, Yukon, Nunavut	1.0%	Atlantic Provinces (NL, NS, PEI, NB)	1.0%

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

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Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54893
Date Analyzed: August 22, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
018A 24x48 ceiling tiles- pinhole- GF-90W	Homogeneous, beige, layered, compressed, fibrous material.	None Detected	Cellulose 25-50% Mineral Wool 10-25% Perlite 25-50% Other Non-Fibrous 0.5-5%
018B 24x48 ceiling tiles- pinhole- GF-90W	Homogeneous, beige, layered, compressed, fibrous material.	None Detected	Cellulose 25-50% Mineral Wool 10-25% Perlite 25-50% Other Non-Fibrous 0.5-5%
018C 24x48 ceiling tiles- pinhole- GF-90W	Homogeneous, beige, layered, compressed, fibrous material.	None Detected	Cellulose 25-50% Mineral Wool 10-25% Perlite 25-50% Other Non-Fibrous 0.5-5%
019A 9" vinyl floor tiles- green with black fleck- GF 90W-S corridor	Homogeneous, green, consolidated material.	Chrysotile 5-10%	Non-Fibrous Material > 75%
Comments:	Vinyl floor tiles may contain very fine asbestos fibres which are not visible using the PLM method, therefore the estimated percentage of asbestos in this sample should be treated as a minimum value only.		
019B 9" vinyl floor tiles- green with black fleck- GF 90W-S corridor			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		

ANALYST: 



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54893
Date Analyzed: August 22, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
019C 9" vinyl floor tiles- green with black fleck- GF 90W-S corridor			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		
020A 9" vinyl floor tiles- blue with white line- 1F- health record- 90W	2 Phases: a) Homogeneous, blue, consolidated material. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile 0.5-5% None Detected	Non-Fibrous Material > 75% Tar and other non-fibrous > 75%
Comments:	Vinyl floor tiles may contain very fine asbestos fibres which are not visible using the PLM method, therefore the estimated percentage of asbestos in this sample should be treated as a minimum value only.		
020B 9" vinyl floor tiles- blue with white line- 1F- health record- 90W	2 Phases: a) Homogeneous, blue, consolidated material. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Not Analyzed Tar and other non-fibrous > 75%
Comments:	Phase a) was not analyzed due to a previous positive result.		

ANALYST: 



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54893
Date Analyzed: August 22, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
020C 9" vinyl floor tiles- blue with white line- 1F-health record- 90W	2 Phases: a) Homogeneous, blue, consolidated material. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Not Analyzed Tar and other non-fibrous > 75%
Comments:	Phase a) was not analyzed due to a previous positive result.		
021A Drywall compound- wall- 90w centre- xray	Homogeneous, off-white, soft, cementitious material.	None Detected	Non-Fibrous Material > 75%
021B Drywall compound- wall- 90w centre- xray	Homogeneous, off-white, soft, cementitious material.	None Detected	Non-Fibrous Material > 75%
021C Drywall compound- wall- 90w centre- xray	Homogeneous, off-white, soft, cementitious material.	None Detected	Non-Fibrous Material > 75%
022A 9" vinyl floor tiles- brown fleck- F2 90wn	2 Phases: a) Homogeneous, grey, consolidated material. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile 5-10% None Detected	Non-Fibrous Material > 75% Tar and other non-fibrous > 75%
Comments:	Vinyl floor tiles may contain very fine asbestos fibres which are not visible using the PLM method, therefore the estimated percentage of asbestos in this sample should be treated as a minimum value only.		

ANALYST: *K. Rocks*



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54893
Date Analyzed: August 22, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
022B 9" vinyl floor tiles- brown fleck- F2 90wn	2 Phases: a) Homogeneous, grey, consolidated material. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Not Analyzed Tar and other non-fibrous > 75%
Comments:	Phase a) was not analyzed due to a previous positive result.		
022C 9" vinyl floor tiles- brown fleck- F2 90wn			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result. There was no mastic present in this sample.		
023A 24x24 ceiling tiles- pinhole-90 w- corridor- all floors	Homogeneous, beige, layered, compressed, fibrous material.	None Detected	Cellulose 25-50% Mineral Wool 25-50% Perlite 10-25% Other Non-Fibrous 0.5-5%
023B 24x24 ceiling tiles- pinhole-90 w- corridor- all floors	Homogeneous, beige, layered, compressed, fibrous material.	None Detected	Cellulose 25-50% Mineral Wool 25-50% Perlite 10-25% Other Non-Fibrous 0.5-5%
023C 24x24 ceiling tiles- pinhole-90 w- corridor- all floors	Homogeneous, beige, layered, compressed, fibrous material.	None Detected	Cellulose 25-50% Mineral Wool 25-50% Perlite 10-25% Other-Non-Fibrous 0.5-5%

ANALYST: _____




Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
 Project No.: 46653.005
 Prepared For: Damian Palus

Lab Reference No.: b54893
 Date Analyzed: August 22, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
024A Texture finish- on 016 ceiling- 80w 1st floor waiting area	Homogeneous, white, soft, cementitious material.	None Detected	Perlite 25-50% Other Non-Fibrous 50-75%
024B Texture finish- on 016 ceiling- 80w 1st floor waiting area	Homogeneous, white, soft, cementitious material.	None Detected	Perlite 25-50% Other Non-Fibrous 50-75%
024C Texture finish- on 016 ceiling- 80w 1st floor waiting area	Homogeneous, white, soft, cementitious material.	None Detected	Perlite 25-50% Other Non-Fibrous 50-75%
025A Vinyl sheet flooring- white/brown stone pattern- 70 w- 1f- is-25	Homogeneous, beige, consolidated, fibrous material on the back of vinyl sheet flooring.	None Detected	Cellulose 50-75% Synthetic Fibres 5-10% Glass Fibres 0.5-5% Wollastonite 0.5-5% Non-Fibrous Material 25-50%
025B Vinyl sheet flooring- white/brown stone pattern- 70 w- 1f- is-25	Homogeneous, beige, consolidated, fibrous material on the back of vinyl sheet flooring.	None Detected	Cellulose 50-75% Synthetic Fibres 5-10% Glass Fibres 0.5-5% Wollastonite 0.5-5% Non-Fibrous Material 25-50%
025C Vinyl sheet flooring- white/brown stone pattern- 70 w- 1f- is-25	Homogeneous, beige, consolidated, fibrous material on the back of vinyl sheet flooring.	None Detected	Cellulose 50-75% Synthetic Fibres 5-10% Glass Fibres 0.5-5% Wollastonite 0.5-5% Non-Fibrous Material 25-50%

ANALYST: 



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name:	Hamilton Health Sciences - Henderson	Date Received:	August 19, 2008
Project No.:	46653.005	Date Analyzed:	August 21, 2008
Lab Reference No.:	b54894	# Samples submitted:	22
Analyst(s):	L. DeCurtis	# Phases analyzed:	22

Method of Analysis:

EPA 600/R-93/116 - Method for the Determination of Asbestos in Bulk Building Materials dated July, 1993

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. The percentage range category reported reflects the level of uncertainty of the method for estimating quantities of asbestos in bulk samples. A reported concentration of less than (<) the regulatory threshold (see chart below) indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with all provincial regulatory requirements (NIOSH 9002, I.R.S.S.T. 244-2). Multiple phases within a sample are analyzed separately.

Provincial Jurisdiction	Regulatory Threshold	Provincial Jurisdiction	Regulatory Threshold
Ontario	0.5%	Manitoba	0.1% friable 1% non-friable
Quebec	0.1%	Saskatchewan	Unstated, likely 1.0%
Alberta, British Columbia, NWT, Yukon, Nunavut	1.0%	Atlantic Provinces (NL, NS, PEI, NB)	1.0%

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

Pinchin Environmental Ltd. is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 101270-0 and 200795-0) for selected test methods for the identification of asbestos in bulk samples and meets all requirements of ISO/IEC 17025:1999 and relevant requirements of ISO 9002:1994.

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Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54894
Date Analyzed: August 21, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
026A 24x24 ceiling tiles- textured- room 15- 70 w 1st f	Homogeneous, grey, compressed, fibrous material.	None Detected	Mineral Wool > 75% Non-Fibrous Material 10-25%
Comments:	Foil is present on the surface of this sample.		
026B 24x24 ceiling tiles- textured- room 15- 70 w 1st f	Homogeneous, grey, compressed, fibrous material.	None Detected	Mineral Wool > 75% Non-Fibrous Material 10-25%
Comments:	Foil is present on the surface of this sample.		
026C 24x24 ceiling tiles- textured- room 15- 70 w 1st f	Homogeneous, grey, compressed, fibrous material.	None Detected	Mineral Wool > 75% Non-Fibrous Material 10-25%
027A Sweatwrap- drain- 70w 1st f- corridor	2 Phases: a) Homogeneous, beige, layered paper. b) Homogeneous, black, tar impregnated fibrous material.	None Detected Chrysotile 50-75%	Cellulose > 75% Hair 5-10% Non-Fibrous Material 0.5-5% Cellulose 5-10% Tar and other non- fibrous 25-50%
027B Sweatwrap- drain- 70w 1st f- corridor			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		
027C Sweatwrap- drain- 70w 1st f- corridor			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		

ANALYST: Liz D. Curtis



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54894
Date Analyzed: August 21, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
028A Plaster wall/ceiling- 80w- corridor- 2nd f	a) Homogeneous, grey, hard, cementitious material.	None Detected	Cellulose 0.5-5% Non-Fibrous Material > 75%
	b) Homogeneous, off-white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
Comments:	Phase a) is small in size. For more reliable results, a larger sample is required.		
028B Plaster wall/ceiling- 80w- corridor- 2nd f	a) Homogeneous, hard, cementitious material.	Chrysotile < 0.5%	Non-Fibrous Material > 75%
	b) Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
Comments:	Phase a) is small in size. For more reliable results, a larger sample is required.		
028C Plaster wall/ceiling- 80w- corridor- 2nd f	a) Homogeneous, grey, hard, cementitious material.	Chrysotile < 0.5%	Non-Fibrous Material > 75%
	b) Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
Comments:	Phase a) is small in size. For more reliable results, a larger sample is required.		

ANALYST: Liz DeCurtis



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54894
Date Analyzed: August 21, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
028D Plaster wall/ceiling- 80w- corridor- 2nd f	2 Phases: a) Homogeneous, grey, hard, cementitious material. b) Homogeneous, white, hard, cementitious material.	Chrysotile 0.5-5%	Non-Fibrous Material > 75% Not Analyzed
Comments:	Phase a) is small in size. For more reliable results, a larger sample is required. Analysis of phase b) was stopped due to a previous positive result.		
028E Plaster- wall/ ceiling- GF- 80W			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		
028F Plaster- wall/ ceiling- GF- 80W			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		
028G Plaster- wall/ ceiling- GF- 80W			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		

ANALYST: Liz DeCurtis



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54894
Date Analyzed: August 21, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
029A 12" vinyl floor tiles- beige with brown fleck- 70w 1st f- corridor	2 Phases: a) Homogeneous, beige, consolidated material.	Chrysotile	0.5-5% Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other non- fibrous > 75%
Comments:	Vinyl floor tiles may contain very fine asbestos fibres which are not visible using the PLM method, therefore the estimated percentage of asbestos in this sample should be treated as a minimum value only.		
029B 12" vinyl floor tiles- beige with brown fleck- 70w 1st f- corridor	2 Phases: a) Homogeneous, beige, consolidated material.	None Detected	Not Analyzed
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.		Tar and other non- fibrous > 75%
Comments:	Analysis of phase a) was stopped due to a previous positive result.		
029C 12" vinyl floor tiles- beige with brown fleck- 70w 1st f- corridor	2 Phases: a) Homogeneous, beige, consolidated material.	None Detected	Not Analyzed > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.		Tar and other non- fibrous > 75%
Comments:	Analysis of phase a) was stopped due to a previous positive result.		

ANALYST: Liz DeCurtis



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54894
Date Analyzed: August 21, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
030A 24x24 ceiling tiles- pinhole- 2nd floor- corridor- 70w	Homogeneous, beige, compressed, fibrous material.	None Detected	Cellulose 50-75% Mineral Wool 10-25% Perlite 10-25% Other Non-Fibrous 0.5-5%
030B 24x24 ceiling tiles- pinhole- 2nd floor- corridor- 70w	Homogeneous, beige, compressed, fibrous material.	None Detected	Cellulose 50-75% Mineral Wool 10-25% Perlite 10-25% Other Non-Fibrous 0.5-5%
030C 24x24 ceiling tiles- pinhole- 2nd floor- corridor- 70w	Homogeneous, beige, compressed, fibrous material.	None Detected	Cellulose 50-75% Mineral Wool 10-25% Perlite 10-25% Other Non-Fibrous 0.5-5%
031A Texture finish- on 016 ceiling- quiet room- 80w- 3rd f	Homogeneous, white, soft, cementitious material.	None Detected	Foam 25-50% Other Non-Fibrous 50-75%
031B Texture finish- on 016 ceiling- quiet room- 80w- 3rd f	Homogeneous, white, soft, cementitious material.	None Detected	Foam 25-50% Other Non-Fibrous 50-75%
031C Texture finish- on 016 ceiling- quiet room- 80w- 3rd f	Homogeneous, white, soft, cementitious material.	None Detected	Foam 25-50% Other Non-Fibrous 50-75%

ANALYST: Liz DeCurtis



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name:	Hamilton Health Sciences - Henderson	Date Received:	August 19, 2008
Project No.:	46653.005	Date Analyzed:	August 22, 2008
Lab Reference No.:	b54895	# Samples submitted:	22
Analyst(s):	A. Di Giulio	# Phases analyzed:	25

Method of Analysis:

EPA 600/R-93/116 - Method for the Determination of Asbestos in Bulk Building Materials dated July, 1993

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. The percentage range category reported reflects the level of uncertainty of the method for estimating quantities of asbestos in bulk samples. A reported concentration of less than (<) the regulatory threshold (see chart below) indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with all provincial regulatory requirements (NIOSH 9002, I.R.S.S.T. 244-2). Multiple phases within a sample are analyzed separately.

Provincial Jurisdiction	Regulatory Threshold	Provincial Jurisdiction	Regulatory Threshold
Ontario	0.5%	Manitoba	0.1% friable 1% non-friable
Quebec	0.1%	Saskatchewan	Unstated, likely 1.0%
Alberta, British Columbia, NWT, Yukon, Nunavut	1.0%	Atlantic Provinces (NL, NS, PEI, NB)	1.0%

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

Pinchin Environmental Ltd. is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 101270-0 and 200795-0) for selected test methods for the identification of asbestos in bulk samples and meets all requirements of ISO/IEC 17025:1999 and relevant requirements of ISO 9002:1994.

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Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54895
Date Analyzed: August 22, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
032a Plaster ceiling/wall- 70 wing- corridor and janitor closet	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None Detected	Cellulose < 0.5% Non-Fibrous Material > 75%
	b) Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
032b Plaster ceiling/wall- 70 wing- corridor and janitor closet	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None Detected	Hair < 0.5% Non-Fibrous Material > 75%
	b) Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
032c Plaster ceiling/wall- 70 wing- corridor and janitor closet	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
032d Plaster ceiling/wall- 70 wing- corridor and janitor closet	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%

ANALYST: J. DiStasio



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54895
Date Analyzed: August 22, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
032e Plaster ceiling/wall- 70 wing- corridor and janitor closet	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
032f Plaster ceiling/wall- 70 wing- corridor and janitor closet	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
032g Plaster ceiling/wall- 70 wing- corridor and janitor closet	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
033a 24x24 ceiling tiles- pinhole and fissure- 70 w- room 7	Homogeneous, beige, compressed, fibrous material.	None Detected	Cellulose 25-50% Mineral Wool 25-50% Perlite 25-50% Other Non-Fibrous 0.5-5%

ANALYST: J. Di Giulio



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54895
Date Analyzed: August 22, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
033b 24x24 ceiling tiles- pinhole and fissure- 70 w- room 7	Homogeneous, beige, compressed, fibrous material.	None Detected	Cellulose 25-50% Mineral Wool 25-50% Perlite 25-50% Other Non-Fibrous 0.5-5%
033c 24x24 ceiling tiles- pinhole and fissure- 70 w- room 7	Homogeneous, beige, compressed, fibrous material.	None Detected	Cellulose 25-50% Mineral Wool 25-50% Perlite 25-50% Other Non-Fibrous 0.5-5%
034a Paper- on duct- penthouse- duct se5 by elevator	Homogeneous, off- white, layered paper.	Chrysotile > 75%	Cellulose 10-25% Non-Fibrous Material 0.5-5%
034b Paper- on duct- penthouse- duct se5 by elevator			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		
034c Paper- on duct- penthouse- duct se5 by elevator			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		
035a 9" vinyl floor tile- black/green fleck- 90w 0 Floor- emergency dept	Non-homogeneous, black, white and green, consolidated material.	None Detected	Non-Fibrous Material > 75%

ANALYST: A. DiStasio



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54895
Date Analyzed: August 22, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
035b 9" vinyl floor tiles- black/green fleck- 90w 0 Floor- emergency dept	Non-homogeneous, black, white and green, consolidated material.	None Detected	Non-Fibrous Material > 75%
035c 9" vinyl floor tiles- black/green fleck- 90w 0 Floor- emergency dept	Non-homogeneous, black, white and green, consolidated material.	None Detected	Non-Fibrous Material > 75%
036a Magblock- stem pipe- 70W basement	Homogeneous, off- white, chalky material with fibres.	Chrysotile 10-25%	Non-Fibrous Material > 75%
Comments:	Cellulose is present on the surface of this sample.		
036b Magblock- stem pipe- 70W basement			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		
036c Magblock- stem pipe- 70W basement			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		
037a Parging cement- HWT- over 028- 70W basement	Homogeneous, beige, soft, cementitious material.	None Detected	Cellulose 25-50% Mineral Wool 25-50% Non-Fibrous Material 25-50%
037b Parging cement- HWT- over 028- 70W basement	Homogeneous, beige, soft, cementitious material.	None Detected	Cellulose 25-50% Mineral Wool 25-50% Non-Fibrous Material 25-50%

ANALYST: J. DiGiulio



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54895
Date Analyzed: August 22, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
037c Parging cement- HWT- over 028- 70W basement	Homogeneous, beige, soft, cementitious material.	None Detected	Cellulose 25-50% Mineral Wool 25-50% Non-Fibrous Material 25-50%

ANALYST: W. DiMuro



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name:	Hamilton Health Sciences - Henderson		
Project No.:	46653.005		
Lab Reference No.:	b54896	Date Received:	August 19, 2008
Analyst(s):	D. Aiken	Date Analyzed:	August 22, 2008
		# Samples submitted:	22
		# Phases analyzed:	24

Method of Analysis:

EPA 600/R-93/116 - Method for the Determination of Asbestos in Bulk Building Materials dated July, 1993

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. The percentage range category reported reflects the level of uncertainty of the method for estimating quantities of asbestos in bulk samples. A reported concentration of less than (<) the regulatory threshold (see chart below) indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with all provincial regulatory requirements (NIOSH 9002, I.R.S.S.T. 244-2). Multiple phases within a sample are analyzed separately.

Provincial Jurisdiction	Regulatory Threshold	Provincial Jurisdiction	Regulatory Threshold
Ontario	0.5%	Manitoba	0.1% friable 1% non-friable
Quebec	0.1%	Saskatchewan	Unstated, likely 1.0%
Alberta, British Columbia, NWT, Yukon, Nunavut	1.0%	Atlantic Provinces (NL, NS, PEI, NB)	1.0%

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

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Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54896
Date Analyzed: August 22, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
038a Fibrous fireproofing - beams - Floor 0-30 W	Homogeneous, beige, fibrous material.	None Detected	Mineral Wool 50-75% Non-Fibrous Material 25-50%
038b Fibrous fireproofing - beams - Floor 0-30 W	Homogeneous, beige, fibrous material.	None Detected	Mineral Wool 50-75% Non-Fibrous Material 25-50%
038c Fibrous fireproofing - beams - Floor 0-30 W	Homogeneous, beige, fibrous material.	None Detected	Mineral Wool 50-75% Non-Fibrous Material 25-50%
038d Fibrous fireproofing - beams - 1st floor - 30W	Homogeneous, beige, fibrous material.	None Detected	Mineral Wool 50-75% Non-Fibrous Material 25-50%
038e Fibrous fireproofing - beams - 1st floor - 30W	Homogeneous, beige, fibrous material.	None Detected	Mineral Wool 50-75% Non-Fibrous Material 25-50%
038f Fibrous fireproofing - beams - 1st floor - 30W	Homogeneous, beige, fibrous material.	None Detected	Mineral Wool 50-75% Non-Fibrous Material 25-50%
038g Fibrous fireproofing - beams - 1st floor - 30W	Homogeneous, beige, fibrous material.	None Detected	Mineral Wool 50-75% Non-Fibrous Material 25-50%
039a 24x48 ceiling tiles - pinhole and texture - basement - 30W	Homogeneous, beige, compressed, fibrous material.	None Detected	Cellulose 25-50% Mineral Wool 25-50% Perlite 25-50% Other Non-Fibrous 0.5-5%

ANALYST: Dgl ash



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54896
Date Analyzed: August 22, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
039b 24x48 ceiling tiles - pinhole and texture - basement - 30W	Homogeneous, beige, compressed, fibrous material.	None Detected	Cellulose 25-50% Mineral Wool 25-50% Perlite 25-50% Other Non-Fibrous 0.5-5%
039c 24x48 ceiling tiles - pinhole and texture - basement - 30W	Homogeneous, beige, compressed, fibrous material.	None Detected	Cellulose 25-50% Mineral Wool 25-50% Perlite 25-50% Other Non-Fibrous 0.5-5%
040a 12" vinyl floor tiles - white with grey line - men's washroom - 1st F - 30W	Homogeneous, beige, consolidated material.	None Detected	Non-Fibrous Material > 75%
Comments:	Vinyl floor tiles may contain very fine asbestos fibres which are not visible using the PLM method. For confirmation of the absence of asbestos, analysis by Transmission Electron Microscopy (TEM) is necessary. Another phase exists in this sample, but is too small to analyze.		
040b 12" vinyl floor tiles - white with grey line - men's washroom - 1st F - 30W	a) Homogeneous, beige, consolidated material.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
Comments:	Vinyl floor tiles may contain very fine asbestos fibres which are not visible using the PLM method. For confirmation of the absence of asbestos, analysis by Transmission Electron Microscopy (TEM) is necessary.		

ANALYST: Dylal



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54896
Date Analyzed: August 22, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
040c 12" vinyl floor tiles - white with grey line - men's washroom - 1st F - 30W	2 Phases: a) Homogeneous, beige, consolidated material.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other non-fibrous > 75%
Comments:	Vinyl floor tiles may contain very fine asbestos fibres which are not visible using the PLM method. For confirmation of the absence of asbestos, analysis by Transmission Electron Microscopy (TEM) is necessary.		
041a Drywall compound - wall/ceiling - 1st F - 30W	Non-homogeneous, beige and white, soft, cementitious material.	None Detected	Non-Fibrous Material > 75%
041b Drywall compound - wall/ceiling - 1st F - 30W	Non-homogeneous, beige and white, soft, cementitious material.	None Detected	Non-Fibrous Material > 75%
041c Drywall compound - wall/ceiling - 1st F - 30W	Non-homogeneous, beige and white, soft, cementitious material.	Chrysotile < 0.5%	Non-Fibrous Material > 75%
042a Drywall compound - wall - 3rd floor - stairweell - 30W	Homogeneous, white, soft, cementitious material.	None Detected	Non-Fibrous Material > 75%

ANALYST: Dyl ail



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54896
Date Analyzed: August 22, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
042b Drywall compound - wall - 3rd floor - stairweell - 30W	Homogeneous, white, soft, cementitious material.	None Detected	Non-Fibrous Material > 75%
042c Drywall compound - wall - 3rd floor - stairweell - 30W	Homogeneous, white, soft, cementitious material.	None Detected	Non-Fibrous Material > 75%
043a Cementitious fireproofing - columns - 25W	Homogeneous, beige, soft, cementitious material.	None Detected	Cellulose 25-50% Vermiculite 10-25% Other Non-Fibrous 25-50%
043b Cementitious fireproofing - columns - 25W	Homogeneous, beige, soft, cementitious material.	None Detected	Cellulose 25-50% Vermiculite 10-25% Other Non-Fibrous 25-50%
043c Cementitious fireproofing - columns - 25W	Homogeneous, beige, soft, cementitious material.	None Detected	Cellulose 25-50% Vermiculite 10-25% Other Non-Fibrous 25-50%

ANALYST: D. J. al



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name:	Hamilton Health Sciences - Henderson	Date Received:	August 19, 2008
Project No.:	46653.005	Date Analyzed:	August 22, 2008
Lab Reference No.:	b54897	# Samples submitted:	22
Analyst(s):	L. DeCurtis	# Phases analyzed:	24

Method of Analysis:

EPA 600/R-93/116 - Method for the Determination of Asbestos in Bulk Building Materials dated July, 1993

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. The percentage range category reported reflects the level of uncertainty of the method for estimating quantities of asbestos in bulk samples. A reported concentration of less than (<) the regulatory threshold (see chart below) indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with all provincial regulatory requirements (NIOSH 9002, I.R.S.S.T. 244-2). Multiple phases within a sample are analyzed separately.

Provincial Jurisdiction	Regulatory Threshold	Provincial Jurisdiction	Regulatory Threshold
Ontario	0.5%	Manitoba	0.1% friable 1% non-friable
Quebec	0.1%	Saskatchewan	Unstated, likely 1.0%
Alberta, British Columbia, NWT, Yukon, Nunavut	1.0%	Atlantic Provinces (NL, NS, PEI, NB)	1.0%

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

Pinchin Environmental Ltd. is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 101270-0 and 200795-0) for selected test methods for the identification of asbestos in bulk samples and meets all requirements of ISO/IEC 17025:1999 and relevant requirements of ISO 9002:1994.

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Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54897
Date Analyzed: August 22, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
044A Fibrous fireproofing- beams- 25W	Homogeneous, grey, fibrous material.	None Detected	Mineral Wool > 75% Non-Fibrous Material 10-25%
044B Fibrous fireproofing- beams- 25W	Homogeneous, grey, fibrous material.	None Detected	Mineral Wool > 75% Non-Fibrous Material 10-25%
044C Fibrous fireproofing- beams- 25W	Homogeneous, grey, fibrous material.	None Detected	Mineral Wool > 75% Non-Fibrous Material 10-25%
045A Vinyl sheet flooring gray sq- washroom- 25W	Homogeneous, brown, consolidated, fibrous material on the back of vinyl sheet flooring.	None Detected	Synthetic Fibres 25-50% Glass Fibres 5-10% Wollastonite 0.5-5% Non-Fibrous Material 50-75%
045B Vinyl sheet flooring gray sq- washroom- 25W	Homogeneous, brown, consolidated, fibrous material on the back of vinyl sheet flooring.	None Detected	Synthetic Fibres 25-50% Glass Fibres 0.5-5% Wollastonite 0.5-5% Non-Fibrous Material 50-75%
045C Vinyl sheet flooring gray sq- washroom- 25W	Homogeneous, brown, consolidated, fibrous material on the back of vinyl sheet flooring.	None Detected	Synthetic Fibres 25-50% Glass Fibres 5-10% Wollastonite 0.5-5% Non-Fibrous Material 50-75%
046A Drywall compound- wall- office 2nd floor- 25W	Homogeneous, white, soft, cementitious material.	None Detected	Non-Fibrous Material > 75%

ANALYST: Liz DeWitt



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54897
Date Analyzed: August 22, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
046B Drywall compound- wall-office 2nd floor- 25W	Homogeneous, white, soft, cementitious material.	None Detected	Non-Fibrous Material > 75%
046C Drywall compound- wall-office 2nd floor- 25W	Homogeneous, white, soft, cementitious material.	None Detected	Non-Fibrous Material > 75%
047A Rough plaster- ceiling-basement- 40W	Homogeneous, grey, hard, cementitious material.	None Detected	Hair 0.5-5% Non-Fibrous Material > 75%
047B Rough plaster- ceiling-basement- 40W	Homogeneous, grey, hard, cementitious material.	None Detected	Hair 0.5-5% Non-Fibrous Material > 75%
047C Rough plaster- ceiling-basement- 40W	Homogeneous, grey, hard, cementitious material.	None Detected	Hair 0.5-5% Non-Fibrous Material > 75%
047D Rough plaster- ceiling-basement- 40W	Homogeneous, grey, hard, cementitious material.	None Detected	Hair 0.5-5% Non-Fibrous Material > 75%
047E Rough plaster- ceiling-basement- 40W	Homogeneous, grey, hard, cementitious material.	None Detected	Hair 0.5-5% Non-Fibrous Material > 75%
047F Rough plaster- ceiling-basement- 40W	Homogeneous, grey, hard, cementitious material.	None Detected	Hair 0.5-5% Non-Fibrous Material > 75%
047G Rough plaster- ceiling-basement- 40W	Homogeneous, grey, hard, cementitious material.	None Detected	Hair 0.5-5% Non-Fibrous Material > 75%

ANALYST: *Liz Scott*



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54897
Date Analyzed: August 22, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
048A 12" vinyl floor tiles- brown with thick white line- basement washroom- 40W	a) Homogeneous, beige, consolidated material.	Chrysotile	0.5-5% Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other non- fibrous > 75%
Comments:	Vinyl floor tiles may contain very fine asbestos fibres which are not visible using the PLM method, therefore the estimated percentage of asbestos in this sample should be treated as a minimum value only.		
048B 12" vinyl floor tiles- brown with thick white line- basement washroom- 40W	a) Homogeneous, beige, consolidated material.		Not Analyzed
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other non- fibrous > 75%
Comments:	Analysis of phase a) was stopped due to a previous positive result.		

ANALYST: Liz DeCurtis



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54897
Date Analyzed: August 22, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
049C 9" vinyl floor tiles- beige-office- 50W	2 Phases: a) Homogeneous, beige, consolidated material. b) Homogeneous, yellow, soft, sticky material on the back of vinyl floor tile.	None Detected	Not Analyzed Non-Fibrous Material > 75%
Comments:	Analysis of phase a) was stopped due to a previous positive result.		

ANALYST: Liz DeWitt



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name:	Hamilton Health Sciences - Henderson	Date Received:	August 19, 2008
Project No.:	46653.005	Date Analyzed:	August 25, 2008
Lab Reference No.:	b54898	# Samples submitted:	22
Analyst(s):	S. van den Berg	# Phases analyzed:	28

Method of Analysis:

EPA 600/R-93/116 - Method for the Determination of Asbestos in Bulk Building Materials dated July, 1993

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. The percentage range category reported reflects the level of uncertainty of the method for estimating quantities of asbestos in bulk samples. A reported concentration of less than (<) the regulatory threshold (see chart below) indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with all provincial regulatory requirements (NIOSH 9002, I.R.S.S.T. 244-2). Multiple phases within a sample are analyzed separately.

Provincial Jurisdiction	Regulatory Threshold	Provincial Jurisdiction	Regulatory Threshold
Ontario	0.5%	Manitoba	0.1% friable 1% non-friable
Quebec	0.1%	Saskatchewan	Unstated, likely 1.0%
Alberta, British Columbia, NWT, Yukon, Nunavut	1.0%	Atlantic Provinces (NL, NS, PEI, NB)	1.0%

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

Pinchin Environmental Ltd. is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 101270-0 and 200795-0) for selected test methods for the identification of asbestos in bulk samples and meets all requirements of ISO/IEC 17025:1999 and relevant requirements of ISO 9002:1994.

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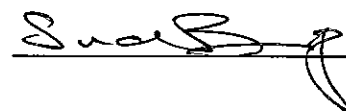
Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54898
Date Analyzed: August 25, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
050a Plaster- wall/ceiling- corridors- 40W	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None Detected	Hair 0.5-5% Non-Fibrous Material > 75%
	b) Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
050b Plaster- wall/ceiling- corridors- 40W	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None Detected	Hair < 0.5% Non-Fibrous Material > 75%
	b) Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
050c Plaster- wall/ceiling- corridors- 40W	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None Detected	Hair 0.5-5% Non-Fibrous Material > 75%
	b) Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
050d Plaster- wall/ceiling- corridors- 40W	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None Detected	Hair 0.5-5% Non-Fibrous Material > 75%
	b) Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%

ANALYST: 



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54898
Date Analyzed: August 25, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
050e Plaster- wall/ceiling- corridors- 40W	a) Homogeneous, grey, hard, cementitious material.	None Detected	Hair 0.5-5% Non-Fibrous Material > 75%
	b) Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
050f Plaster- wall/ceiling- corridors- 40W	a) Homogeneous, grey, hard, cementitious material.	None Detected	Hair 0.5-5% Non-Fibrous Material > 75%
	b) Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
050g Plaster- wall/ceiling- corridors- 40W	a) Homogeneous, grey, hard, cementitious material.	None Detected	Hair < 0.5% Non-Fibrous Material > 75%
	b) Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%

ANALYST: Swadlow



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54898
Date Analyzed: August 25, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
051a 12" vinyl floor tiles- white with brown line- office- 0-F 40W	2 Phases: a) Homogeneous, off-white, consolidated material.	Chrysotile	0.5-5% Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other non-fibrous > 75%
Comments:	Vinyl floor tiles may contain very fine asbestos fibres which are not visible using the PLM method, therefore the estimated percentage of asbestos in this sample should be treated as a minimum value only.		
051b 12" vinyl floor tiles- white with brown line- office- 0-F 40W	2 Phases: a) Homogeneous, off-white, consolidated material.	None Detected	Not Analyzed
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.		Tar and other non-fibrous > 75%
Comments:	Analysis of phase a) was stopped due to a previous positive result.		
051c 12" vinyl floor tiles- white with brown line- office- 0-F 40W	2 Phases: a) Homogeneous, off-white, consolidated material.	None Detected	Not Analyzed
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.		Tar and other non-fibrous > 75%
Comments:	Analysis of phase a) was stopped due to a previous positive result. Phase b) is small in size.		

ANALYST: S. [Signature]



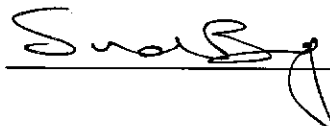
Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54898
Date Analyzed: August 25, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)			
		ASBESTOS		OTHER	
052a 9" vinyl floor tiles- green with white fleck- 1st F-corridor- 40W	2 Phases: a) Homogeneous, green, consolidated material.	Chrysotile	0.5-5%	Non-Fibrous Material	> 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile	< 0.5%	Tar and other non-fibrous	> 75%
Comments:	Vinyl floor tiles may contain very fine asbestos fibres which are not visible using the PLM method, therefore the estimated percentage of asbestos in this sample should be treated as a minimum value only.				
052b 9" vinyl floor tiles- green with white fleck- 1st F-corridor- 40W	2 Phases: a) Homogeneous, green, consolidated material.			Not Analyzed	
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile	< 0.5%	Tar and other non-fibrous	> 75%
Comments:	Analysis of phase a) was stopped due to a previous positive result.				
052c 9" vinyl floor tiles- green with white fleck- 1st F-corridor- 40W	2 Phases: a) Homogeneous, green, consolidated material.			Not Analyzed	
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected		Tar and other non-fibrous	> 75%
Comments:	Analysis of phase a) was stopped due to a previous positive result.				

ANALYST: 



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54898
Date Analyzed: August 25, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)			
		ASBESTOS		OTHER	
053a 24x24 ceiling tiles- pinhole and thick fissure- 1st F- corridor 40W	Homogeneous, beige, compressed, fibrous material.	Chrysotile Amosite	0.5-5% < 0.5%	Cellulose Mineral Wool Perlite Other Non-Fibrous	25-50% 25-50% 10-25% 0.5-5%
053b 24x24 ceiling tiles- pinhole and thick fissure- 1st F- corridor 40W				Not Analyzed	
Comments:	Analysis was stopped due to a previous positive result.				
053c 24x24 ceiling tiles- pinhole and thick fissure- 1st F- corridor 40W				Not Analyzed	
Comments:	Analysis was stopped due to a previous positive result.				
054a 12" vinyl floor tiles- white with grey fleck- GF- 50W	2 Phases: a) Homogeneous, off- white, consolidated material. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile None Detected	0.5-5%	Non-Fibrous Material Tar and other non- fibrous	> 75% > 75%
Comments:	Vinyl floor tiles may contain very fine asbestos fibres which are not visible using the PLM method, therefore the estimated percentage of asbestos in this sample should be treated as a minimum value only.				

ANALYST: Swaby



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54898
Date Analyzed: August 25, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
054b 12" vinyl floor tiles- white with grey fleck- GF-50W	2 Phases: a) Homogeneous, off-white, consolidated material. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Not Analyzed Tar and other non-fibrous > 75%
Comments:	Analysis of phase a) was stopped due to a previous positive result. Phase b) is small in size.		
054c 12" vinyl floor tiles- white with grey fleck- GF-50W	2 Phases: a) Homogeneous, off-white, consolidated material. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Not Analyzed Tar and other non-fibrous > 75%
Comments:	Analysis of phase a) was stopped due to a previous positive result. Phase b) is small in size. For more reliable results, a larger sample is required.		
055a Drywall compound- wall-storage room- GF- 50W	2 Phases: a) Homogeneous, beige, soft, cementitious material. b) Homogeneous, off-white, soft, cementitious material.	Chrysotile 0.5-5%	Non-Fibrous Material > 75% Not Analyzed
Comments:	Analysis of phase b) was stopped due to a previous positive result.		

ANALYST: Swabg



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54898
Date Analyzed: August 25, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
055b Drywall compound- wall- storage room- GF- 50W			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		
055c Drywall compound- wall- storage room- GF- 50W			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		

ANALYST: Swabg



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name:	Hamilton Health Sciences - Henderson	Date Received:	August 19, 2008
Project No.:	46653.005	Date Analyzed:	August 25, 2008
Lab Reference No.:	b54899	# Samples submitted:	22
Analyst(s):	N. Barinque	# Phases analyzed:	26

Method of Analysis:

EPA 600/R-93/116 - Method for the Determination of Asbestos in Bulk Building Materials dated July, 1993

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. The percentage range category reported reflects the level of uncertainty of the method for estimating quantities of asbestos in bulk samples. A reported concentration of less than (<) the regulatory threshold (see chart below) indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with all provincial regulatory requirements (NIOSH 9002, I.R.S.S.T. 244-2). Multiple phases within a sample are analyzed separately.

Provincial Jurisdiction	Regulatory Threshold	Provincial Jurisdiction	Regulatory Threshold
Ontario	0.5%	Manitoba	0.1% friable 1% non-friable
Quebec	0.1%	Saskatchewan	Unstated, likely 1.0%
Alberta, British Columbia, NWT, Yukon, Nunavut	1.0%	Atlantic Provinces (NL, NS, PEI, NB)	1.0%

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

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Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54899
Date Analyzed: August 25, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
056a Plaster- wall/ceiling-50W	Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
056b Plaster- wall/ceiling-50W	a) Homogeneous, grey, hard, cementitious material.	None Detected	Hair 0.5-5% Non-Fibrous Material > 75%
	b) Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
Comments:	Phase a) is small.		
056c Plaster- wall/ceiling-50W	a) Homogeneous, grey, hard, cementitious material.	None Detected	Hair < 0.5% Non-Fibrous Material > 75%
	b) Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
056d Plaster- wall/ceiling-50W	a) Homogeneous, grey, hard, cementitious material.	None Detected	Hair 0.5-5% Non-Fibrous Material > 75%
	b) Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
056e Plaster- wall/ceiling-50W	Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
056f Plaster- wall/ceiling-50W	Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%

ANALYST: 



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54899
Date Analyzed: August 25, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
056g Plaster- wall/ceiling- 50W	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None Detected	Hair 0.5-5% Non-Fibrous Material > 75%
	b) Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
057a 9" vinyl floor tiles- dark brown with yellow/red fleck- men's change room- GF- 80W	a) Homogeneous, black, consolidated material.	Chrysotile 0.5-5%	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other non-fibrous > 75%
Comments:	Vinyl floor tiles may contain very fine asbestos fibres which are not visible using the PLM method, therefore the estimated percentage of asbestos in this sample should be treated as a minimum value only.		
057b 9" vinyl floor tiles- dark brown with yellow/red fleck- mens change room- GF- 80W	a) Homogeneous, black, consolidated material.		Not Analyzed
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other non-fibrous > 75%
Comments:	Analysis of phase a) was stopped due to a previous positive result.		

ANALYST: 



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54899
Date Analyzed: August 25, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
057c 9" vinyl floor tiles- dark brown with yellow/red fleck- mens change room- GF- 80W	2 Phases: a) Homogeneous, black, consolidated material. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Not Analyzed Non-Fibrous Material > 75%
058a Vinyl sheet flooring- white/ brown large stone pattern- 1FL- office- 50W	Homogeneous, beige, consolidated, fibrous material on the back of vinyl sheet flooring.	None Detected	Cellulose 50-75% Synthetic Fibres 5-10% Glass Fibres 0.5-5% Wollastonite 0.5-5% Non-Fibrous Material 25-50%
058b Vinyl sheet flooring- white/ brown large stone pattern- 1FL- office- 50W	Homogeneous, beige, consolidated, fibrous material on the back of vinyl sheet flooring.	None Detected	Cellulose 50-75% Synthetic Fibres 5-10% Glass Fibres 0.5-5% Wollastonite 0.5-5% Non-Fibrous Material 25-50%
058c Vinyl sheet flooring- white/ brown large stone pattern- 1FL- office- 50W	Homogeneous, beige, consolidated, fibrous material on the back of vinyl sheet flooring.	None Detected	Cellulose 50-75% Synthetic Fibres 5-10% Glass Fibres 0.5-5% Wollastonite 0.5-5% Non-Fibrous Material 25-50%

ANALYST: 



Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54899
Date Analyzed: August 25, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
059a Vinyl sheet flooring- white/ brown sq- kitchen 1st F- 50W	Homogeneous, beige, consolidated, fibrous material on the back of vinyl sheet flooring.	None Detected	Cellulose 50-75% Synthetic Fibres 5-10% Glass Fibres 0.5-5% Non-Fibrous Material 25-50%
059b Vinyl sheet flooring- white/ brown sq- kitchen 1st F- 50W	Homogeneous, beige, consolidated, fibrous material on the back of vinyl sheet flooring.	None Detected	Cellulose 50-75% Synthetic Fibres 5-10% Glass Fibres 0.5-5% Non-Fibrous Material 25-50%
059c Vinyl sheet flooring- white/ brown sq- kitchen 1st F- 50W	Homogeneous, beige, consolidated, fibrous material on the back of vinyl sheet flooring.	None Detected	Cellulose 50-75% Synthetic Fibres 5-10% Glass Fibres 0.5-5% Non-Fibrous Material 25-50%
060a 24x48 ceiling tiles- pinhole- 3rd F- corridor- 50W	Homogeneous, beige, layered, compressed, fibrous material.	Amosite < 0.5%	Cellulose 50-75% Mineral Wool 25-50% Perlite 5-10% Other Non-Fibrous 0.5-5%
060b 24x48 ceiling tiles- pinhole- 3rd F- corridor- 50W	Homogeneous, beige, layered, compressed, fibrous material.	Amosite < 0.5%	Cellulose 25-50% Mineral Wool 50-75% Perlite 5-10% Other Non-Fibrous 0.5-5%
060c 24x48 ceiling tiles- pinhole- 3rd F- corridor- 50W	Homogeneous, beige, layered, compressed, fibrous material.	Amosite < 0.5%	Cellulose 25-50% Mineral Wool 50-75% Perlite 5-10% Other Non-Fibrous 0.5-5%

ANALYST: 



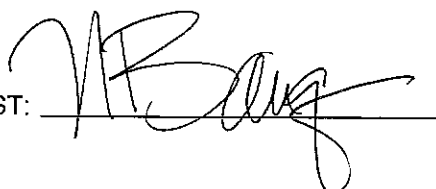
Pinchin Environmental Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences - Henderson
Project No.: 46653.005
Prepared For: Damian Palus

Lab Reference No.: b54899
Date Analyzed: August 25, 2008

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
061a Sweatwrap- drain pipe- stairwell- 50W	2 Phases: a) Homogeneous, beige, layered paper. b) Homogeneous, black, tar impregnated fibrous material.	None Detected Chrysotile	Cellulose > 75% Cellulose 25-50% Tar and other non- fibrous 25-50%
061b Sweatwrap- drain pipe- stairwell- 50W			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		
061c Sweatwrap- drain pipe- stairwell- 50W			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		

ANALYST: 

Laboratory Analysis Report

To:

Geoff Schwarz
Hamilton Health Sciences
120 Main Street West
Hamilton, Ontario
L8N 3Z5

EMC LAB REPORT NUMBER: A9996

Job/Project Name: JCC Sampling - *M wing*
Analysis Method: Polarized Light Microscopy - EPA 600

Date Received: Mar 6/13

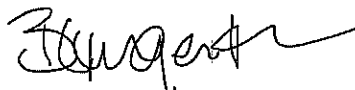
Date Analyzed: Mar 13/13

Analyst: Banu Gurgun-Keough, *Laboratory Manager*

Job No:

Number of Samples: 12

Date Reported: Mar 13/13



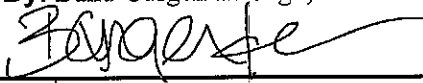
Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)		
				Asbestos Fibres	Non-asbestos Fibres	Non-fibrous Material
S01a	A9996-1	Ceiling tile mastic - 3 rd floor	Brown, hard, mastic	Chrysotile	1	99
S01b	A9996-2	Ceiling tile mastic - 3 rd floor	Brown, hard, mastic	Chrysotile	1	99
S01c	A9996-3	Ceiling tile mastic - 3 rd floor	Brown, hard, mastic	Chrysotile	1	99
S02a	A9996-4	Ceiling debris - 3 rd floor	Non-homogeneous, grey and white, cementitious debris	ND	<0.5	100
S02b	A9996-5	Ceiling debris - 3 rd floor	Non-homogeneous, grey, white and rust, cementitious debris	ND		100
S02c	A9996-6	Ceiling debris - 3 rd floor	Non-homogeneous, grey and beige, debris	ND	40	60
S03a	A9996-7	Ceiling debris - 1 st floor	Non-homogeneous, grey and white, cementitious debris	ND	<0.5	100
S03b	A9996-8	Ceiling debris - 1 st floor	Non-homogeneous, grey and white, cementitious debris	ND	0.5	99.5
S03c	A9996-9	Ceiling debris - 1 st floor	Non-homogeneous, grey and white, cementitious debris	ND	0.5	99.5
S04a	A9996-10	M wing basement floor debris - elevator	Non-homogeneous, grey, white and rust, debris	Chrysotile	<0.5	40
S04b	A9996-11	M wing basement floor debris - old door and plumbing storage	Non-homogeneous, brown and grey, debris	Chrysotile	0.5	60

Laboratory Analysis Report

To: **Geoff Schwarz**
Hamilton Health Sciences
120 Main Street West, Room 1D12
Hamilton, Ontario
L8N 3Z5

EMC LAB REPORT NUMBER: A10365
Job/Project Name: JCC 4F Room 16
Analysis Method: Polarized Light Microscopy – EPA 600
Date Received: Apr 23/13 **Date Analyzed: Apr 26/13**
Analyst: Kaitlin Smith, Analyst
Reviewed By: Banu Gurgun-Keough, Laboratory Manager

Job No:
Number of Samples: 9
Date Reported: Apr 26/13



Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)		
				Asbestos Fibres	Non-asbestos Fibres	Non-fibrous Material
S01a	A10365-1	Plaster from base plate in radiator	2 Phases: a) Grey, plaster b) White, fibrous material	ND Chrysotile	75	100 15
S01b	A10365-2	Plaster from base plate in radiator	NA			
S01c	A10365-3	Plaster from base plate in radiator	NA			
S02a	A10365-4 ⁴	Parging from piping and insulation in radiator	2 Phases: a) Grey, plaster b) White, fibrous material	Chrysotile Chrysotile	<0.5 75	100 15
S02b	A10365-5	Parging from piping and insulation in radiator	NA			
S02c	A10365-6	Parging from piping and insulation in radiator	NA			
S03a	A10365-7	Plaster skim coat in room 16 in 4F	White, drywall compound	ND		100
S03b	A10365-8	Plaster skim coat in room 16 in 4F	White, drywall compound	ND		100
S03c	A10365-9	Plaster skim coat in room 16 in 4F	White, drywall compound	ND		100

- Note:**
- Bulk samples are analyzed using Polarized Light Microscopy (PLM) and dispersion staining techniques. The analytical procedures are in accordance with EPA 600/R-93/116 method.
 - The results are only related to the samples analyzed. ND = None Detected, NA = Not Analyzed (analysis stopped due to a previous positive result).
 - The Ontario Regulatory Threshold for asbestos is 0.5%.
 - The asbestos present in phase (a) may be due to contamination.

F + E wing the same.

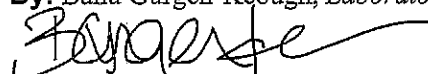
Laboratory Analysis Report

To:

Geoff Schwarz
Hamilton Health Sciences
120 Main Street West, Room 1D12
Hamilton, Ontario
L8N 3Z5

EMC LAB REPORT NUMBER: A10365
Job/Project Name: JCC 4F Room 16 → window HVAC Insulation
Analysis Method: Polarized Light Microscopy – EPA 600
Date Received: Apr 23/13 Date Analyzed: Apr 26/13
Analyst: Kaitlin Smith, Analyst
Reviewed By: Banu Gurgen-Keough, Laboratory Manager

Job No:
Number of Samples: 9
Date Reported: Apr 26/13



Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)		
				Asbestos Fibres	Non-asbestos Fibres	Non-fibrous Material
S01a	A10365-1	Plaster from base plate in radiator	2 Phases: a) Grey, plaster b) White, fibrous material	ND Chrysotile	75	100 15
S01b	A10365-2	Plaster from base plate in radiator	NA			
S01c	A10365-3	Plaster from base plate in radiator	NA			
S02a	A10365-4 ⁴	Parging from piping and insulation in radiator	2 Phases: a) Grey, plaster b) White, fibrous material	Chrysotile Chrysotile	<0.5 75	100 15
S02b	A10365-5	Parging from piping and insulation in radiator	NA			
S02c	A10365-6	Parging from piping and insulation in radiator	NA			
S03a	A10365-7	Plaster skim coat in room 16 in 4F	White, drywall compound	ND		100
S03b	A10365-8	Plaster skim coat in room 16 in 4F	White, drywall compound	ND		100
S03c	A10365-9	Plaster skim coat in room 16 in 4F	White, drywall compound	ND		100

Note:

1. Bulk samples are analyzed using Polarized Light Microscopy (PLM) and dispersion staining techniques. The analytical procedures are in accordance with EPA 600/R-93/116 method.
2. The results are only related to the samples analyzed. ND = None Detected, NA = Not Analyzed (analysis stopped due to a previous positive result).
3. The Ontario Regulatory Threshold for asbestos is 0.5%.
4. The asbestos present in phase (a) may be due to contamination.



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name:	Hamilton Health Sciences, Juravinski Hospital, 711 Concession St, Hamilton, ON		
Project No.:	0200249.056		
Prepared For:	R. Bertin-Fenney / D. Palus		
Lab Reference No.:	b180175		
Analyst(s):	J. Raisch-Berkoff		
Date Received:	November 13, 2017	# Samples submitted:	14
Date Analyzed:	November 13, 2017	# Phases analyzed:	13

Method of Analysis:

EPA 600/R-93/116 - Method for the Determination of Asbestos in Bulk Building Materials dated July, 1993

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. A reported concentration of less than (<) the regulatory threshold (see chart below) indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with provincial regulatory requirements where applicable. Multiple phases within a sample are analyzed and reported separately.

Provincial Jurisdiction	Regulatory Threshold	Provincial Jurisdiction	Regulatory Threshold
Ontario, British Columbia, Nova Scotia	0.5%	Manitoba	0.1% friable 1% non-friable
Quebec	0.1%	Saskatchewan	0.5% friable 1% non-friable
Alberta, NWT, Yukon, Nunavut	1%	Newfoundland and Labrador, PEI and New Brunswick	1%

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

Pinchin Ltd. is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 101270-0) for the 'EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples,' and the 'EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials'; and meets all requirements of ISO/IEC 17025:2005.

This report relates only to the items tested.

NOTE: *This test report may not be reproduced, except in full, without the written approval of the laboratory. The client may not use this report to claim product endorsement by NVLAP or any agency of the U.S. Government. This report is valid only when signed in blue ink by the analyst. Vinyl asbestos floor tiles contain very fine fibres of asbestos and may be missed by some laboratories using the PLM method. Internal verification studies performed by Pinchin indicate that the chance of missing asbestos in floor tiles is no higher than about 2%. The vinyl tile study and laboratory documentation on measurement uncertainty is available upon request. The analysis of dust samples by PLM cannot be used as an indicator of past or present airborne asbestos fibre levels.*



**Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis**

Project Name: Hamilton Health Sciences, Juravinski Hospital,
711 Concession St, Hamilton, ON

Project No.: 0200249.056

Prepared For: R. Bertin-Fenney / D. Palus

Lab Reference No.: b180175

Date Analyzed: November 13, 2017

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
0001A Parging cement on concrete wall, 2nd floor Boiler Room, R Wing(05 Wing)	Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
0001B Parging cement on concrete wall, 3rd floor Boiler Room, R Wing(05 Wing)	Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
0001C Parging cement on concrete wall, 3rd floor Boiler Room, R Wing(05 Wing)	Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
0001D Parging cement on concrete wall, 1st floor Boiler Room, R Wing(05 Wing)	Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
0001E Parging cement on concrete wall, 1st floor Boiler Room, R Wing(05 Wing)	Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences, Juravinski Hospital,
711 Concession St, Hamilton, ON

Project No.: 0200249.056

Prepared For: R. Bertin-Fenney / D. Palus

Lab Reference No.: b180175

Date Analyzed: November 13, 2017

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
0002A Rough plaster on metal lath, 1st floor Boiler Room, R Wing(05 Wing)	2 Phases: a) Homogeneous, dark grey, hard, cementitious material. b) Non-homogeneous, grey, soft, cementitious material.	None Detected	Non-Fibrous Material > 75%
		Chrysotile 25-50% Amosite < 0.5%	Man-made Vitreous Fibres 0.5-5% Non-Fibrous Material 50-75%
Comments:	Phase b) is very small in size and present on the surface of phase a). Phase b) may be present due to contamination. For more reliable results a larger sample is required.		
0002B Rough plaster on metal lath, 1st floor Boiler Room, R Wing(05 Wing)	Homogeneous, dark grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
0002C Rough plaster on metal lath, 1st floor Boiler Room, R Wing(05 Wing)	2 Phases: a) Homogeneous, dark grey, hard, cementitious material. b) Non-homogeneous, grey, soft, cementitious material.	None Detected	Non-Fibrous Material > 75%
			Not Analyzed
Comments:	See comment for 0002A. Analysis of phase b) was stopped due to a previous positive result. Metal is present on the surface of this sample.		
0003A Pink caulking on exit hatch, Exterior (Roof) Boiler Room, R Wing(05 Wing)	Homogeneous, pink, caulking material.	None Detected	Talc 0.5-5% Non-Fibrous Material > 75%



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences, Juravinski Hospital,
711 Concession St, Hamilton, ON

Project No.: 0200249.056

Prepared For: R. Bertin-Fenney / D. Palus

Lab Reference No.: b180175

Date Analyzed: November 13, 2017

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
0003B Pink caulking on exit hatch, Exterior (Roof) Boiler Room, R Wing(05 Wing)	Homogeneous, pink, caulking material.	None Detected	Talc 0.5-5% Non-Fibrous Material > 75%
0003C Pink caulking on exit hatch, Exterior (Roof) Boiler Room, R Wing(05 Wing)	Homogeneous, pink, caulking material.	None Detected	Talc 0.5-5% Non-Fibrous Material > 75%
0004A Black tar on exit hatch, Exterior (Roof) Boiler Room, R Wing(05 Wing)	Homogeneous, black, tar material.	Chrysotile 10-25%	Tar and other non-fibrous > 75%
0004B Black tar on exit hatch, Exterior (Roof) Boiler Room, R Wing(05 Wing)			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		
0004C Black tar on exit hatch, Exterior (Roof) Boiler Room, R Wing(05 Wing)			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		

Reviewed by:

Reporting Analyst:



Analyzed by: JRS
 Reviewed by: JRC
 Report Sent by: EL

Instructions:

**Pinchin Ltd. - Asbestos Laboratory
 Internal Asbestos Bulk Sample Chain of Custody**

Client Name:	Hamilton Health Sciences	Project Address:	711 Concession St, Hamilton, ON
Portfolio/Building No:	Juavinski Hospital	Pinchin File:	200249.056
Submitted by:	Robert Bertin-Fenney	Email:	rbertin-fenney@pinchin.com
CC Results to:	Damian Palus	CC Email:	dpalus@pinchin.com
Invoice to:	Accounts Payable	Invoice Email:	ap@pinchin.com
Date Submitted:	November 9 2017	Required by:	November 10 2017
# of Samples:	14	Priority:	Rush Turnaround
Year of Building Construction (Mandatory Field):			
Do NOT Stop on Positive (Sample Numbers):			
Pinchin Group Company (Mandatory Field):	Pinchin		

To be Completed by Lab Personnel Only:

Lab Reference #:	6180175	Time:	24 hour clock
Received by:	NOV 13 2017 EL	Date:	Month Day Year
Name(s) of Analyst(s):	JRS (3) NOV 13/17		

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
	001	A	Parging cement on concrete wall, 2nd floor Boiler Room, R Wing(05 Wing) ND ND
	001	B	Parging cement on concrete wall, 3rd floor Boiler Room, R Wing(05 Wing) ND
	001	C	Parging cement on concrete wall, 3rd floor Boiler Room, R Wing(05 Wing) ND
	001	D	Parging cement on concrete wall, 1st floor Boiler Room, R Wing(05 Wing) ND
	001	E	Parging cement on concrete wall, 1st floor Boiler Room, R Wing(05 Wing) ND
	002	A	Rough plaster on metal lath, 1st floor Boiler Room, R Wing(05 Wing) a) ND b) CH 25-40" AM 50.507.



Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
	002	B	Rough plaster on metal lath, 1st floor Boiler Room, R Wing(05 Wing) ND
	002	C	Rough plaster on metal lath, 1st floor Boiler Room, R Wing(05 Wing) a) ND b) NA
	003	A	Pink caulking on exit hatch, Exterior (Roof) Boiler Room, R Wing(05 Wing) ND
	003	B	Pink caulking on exit hatch, Exterior (Roof) Boiler Room, R Wing(05 Wing) ND
	003	C	Pink caulking on exit hatch, Exterior (Roof) Boiler Room, R Wing(05 Wing) ND
	004	A	Black tar on exit hatch, Exterior (Roof) Boiler Room, R Wing(05 Wing) CA 10-259.
	004	B	Black tar on exit hatch, Exterior (Roof) Boiler Room, R Wing(05 Wing) NA
	004	C	Black tar on exit hatch, Exterior (Roof) Boiler Room, R Wing(05 Wing) NA



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name:	Hamilton Health Sciences, Juravinski Hospital 711 Concession St, Hamilton, ON		
Project No.:	0200249.057		
Prepared For:	R. Bertin-Fenney / D. Palus		
Lab Reference No.:	b180176		
Analyst(s):	A. Di Giulio		
Date Received:	November 13, 2017	# Samples submitted:	13
Date Analyzed:	November 13, 2017	# Phases analyzed:	19

Method of Analysis:

EPA 600/R-93/116 - Method for the Determination of Asbestos in Bulk Building Materials dated July, 1993

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. A reported concentration of less than (<) the regulatory threshold (see chart below) indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with provincial regulatory requirements where applicable. Multiple phases within a sample are analyzed and reported separately.

Provincial Jurisdiction	Regulatory Threshold	Provincial Jurisdiction	Regulatory Threshold
Ontario, British Columbia, Nova Scotia	0.5%	Manitoba	0.1% friable 1% non-friable
Quebec	0.1%	Saskatchewan	0.5% friable 1% non-friable
Alberta, NWT, Yukon, Nunavut	1%	Newfoundland and Labrador, PEI and New Brunswick	1%

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

Pinchin Ltd. is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 101270-0) for the 'EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples,' and the 'EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials'; and meets all requirements of ISO/IEC 17025:2005.

This report relates only to the items tested.

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Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences, Juravinski Hospital

711 Concession St, Hamilton, ON

Project No.: 0200249.057

Prepared For: R. Bertin-Fenney / D. Palus

Lab Reference No.: b180176

Date Analyzed: November 13, 2017

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
0001A Fire Stop on block wall, Generator Room 2 Level 0, H Wing(15 Wing)	Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
0001B Fire Stop on block wall, Generator Room 2 Level 0, H Wing(15 Wing)	Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
0001C Fire Stop on block wall, Generator Room 2 Level 0, H Wing(15 Wing)	Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
0002A Expansion joint caulking on block wall, Generator Room 2 Level 0, H Wing(15 Wing)	Homogeneous, grey, caulking material.	None Detected	Non-Fibrous Material > 75%
0002B Expansion joint caulking on block wall, Generator Room 2 Level 0, H Wing(15 Wing)	Homogeneous, grey, caulking material.	None Detected	Non-Fibrous Material > 75%
0002C Expansion joint caulking on block wall, Generator Room 2 Level 0, H Wing(15 Wing)	Homogeneous, grey, caulking material.	None Detected	Non-Fibrous Material > 75%



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences, Juravinski Hospital

711 Concession St, Hamilton, ON

Project No.: 0200249.057

Prepared For: R. Bertin-Fenney / D. Palus

Lab Reference No.: b180176

Date Analyzed: November 13, 2017

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
0003A Rough plaster on concrete walls, Generator Room 2 Level 0, H Wing(15 Wing)	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, tar material.	None Detected	Man-made Vitreous Fibres 0.5-5% Tar and other non-fibrous > 75%
0003B Rough plaster on concrete walls, Generator Room 2 Level 0, H Wing(15 Wing)	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, tar material.	None Detected	Man-made Vitreous Fibres 0.5-5% Tar and other non-fibrous > 75%
0003C Rough plaster on concrete walls, Generator Room 2 Level 0, H Wing(15 Wing)	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, tar material.	None Detected	Man-made Vitreous Fibres 0.5-5% Tar and other non-fibrous > 75%



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences, Juravinski Hospital

711 Concession St, Hamilton, ON

Project No.: 0200249.057

Prepared For: R. Bertin-Fenney / D. Palus

Lab Reference No.: b180176

Date Analyzed: November 13, 2017

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
0004A Sweatwrap insulation, Mechanical Room, A Wing(90 Wing)	a) Homogeneous, black, tar impregnated, compressed fibrous material.	None Detected	Cellulose 50-75% Tar and other non- fibrous 25-50%
	b) Homogeneous, beige, layered, corrugated paper.	None Detected	Cellulose > 75% Non-Fibrous Material 0.5-5%
0004B Sweatwrap insulation, Mechanical Room, A Wing(90 Wing)	a) Homogeneous, black, tar impregnated, compressed fibrous material.	None Detected	Cellulose 50-75% Tar and other non- fibrous 25-50%
	b) Homogeneous, beige, layered, corrugated paper.	None Detected	Cellulose > 75% Non-Fibrous Material 0.5-5%
0004C Sweatwrap insulation, Mechanical Room, A Wing(90 Wing)	a) Homogeneous, black, tar impregnated, compressed fibrous material.	None Detected	Cellulose 50-75% Tar and other non- fibrous 25-50%
	b) Homogeneous, beige, layered, corrugated paper.	None Detected	Cellulose > 75% Non-Fibrous Material 0.5-5%
0005A Mag block insulation, Mechanical Room, A Wing(90 Wing)	Homogeneous, off-white, chalky material with fibres.	None Detected	Cellulose 5-10% Synthetic Fibres 5-10% Man-made Vitreous Fibres 0.5-5% Non-Fibrous Material > 75%

Reviewed by:

Reporting Analyst:



Analyzed by: AD
 Reviewed by: KC
 Report Sent by: EL

Instructions:

**Pinchin Ltd. - Asbestos Laboratory
 Internal Asbestos Bulk Sample Chain of Custody**

Client Name:	Hamilton Health Sciences	Project Address:	711 Concession St, Hamilton, ON
Portfolio/Building No:	Juavinski Hospital	Pinchin File:	200249.057
Submitted by:	Robert Bertin-Fenney	Email:	rbertin-fenney@pinchin.com
CC Results to:	Damian Palus	CC Email:	dpalus@pinchin.com
Invoice to:	Accounts Payable	Invoice Email:	ap@pinchin.com
Date Submitted:	November 9 2017	Required by:	November 10 2017
# of Samples:	13	Priority:	Rush Turnaround
Year of Building Construction (Mandatory Field):			
Do NOT Stop on Positive (Sample Numbers):			
Pinchin Group Company (Mandatory Field):	Pinchin		

To be Completed by Lab Personnel Only:

Lab Reference #:	6180176	Time:	24 hour clock
Received by:	NOV 13 2017 EL	Date:	Month Day Year
Name(s) of Analyst(s):	AD 11/13/17		

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
	001	A	Fire Stop on block wall, Generator Room 2 Level 0, H Wing(15 Wing) ND
	001	B	Fire Stop on block wall, Generator Room 2 Level 0, H Wing(15 Wing) ND
	001	C	Fire Stop on block wall, Generator Room 2 Level 0, H Wing(15 Wing) ND.
	002	A	Expansion joint caulking on block wall, Generator Room 2 Level 0, H Wing(15 Wing) ND
	002	B	Expansion joint caulking on block wall, Generator Room 2 Level 0, H Wing(15 Wing) ND.
	002	C	Expansion joint caulking on block wall, Generator Room 2 Level 0, H Wing(15 Wing) ND.

6.

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
	003	A	Rough plaster on concrete walls, Generator Room 2 Level 0, H Wing(15 Wing) <i>AND BND</i>
	003	B	Rough plaster on concrete walls, Generator Room 2 Level 0, H Wing(15 Wing) <i>AND BND</i>
	003	C	Rough plaster on concrete walls, Generator Room 2 Level 0, H Wing(15 Wing) <i>AND BND</i>
	004	A	Sweatwrap insulation, Mechanical Room, A Wing(90 Wing) <i>AND BND</i>
	004	B	Sweatwrap insulation, Mechanical Room, A Wing(90 Wing) <i>AND BND</i>
	004	C	Sweatwrap insulation, Mechanical Room, A Wing(90 Wing) <i>AND BND</i>
	005	A	Mag block insulation, Mechanical Room, A Wing(90 Wing) <i>ND</i>

B



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



Customer: Pinchin Ltd.
6-875 Main St West
Suite 200
Hamilton, Ontario L8S 4P9

Attn: Robert Bertin-Fenney
Michael Maiorana

Lab Order ID: 11810850
Analysis ID: 11810850_PLM
Date Received: 5/2/2018
Date Reported: 5/8/2018

Project: HazMat Survey, Juravinski Hospital Parking Garage

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
0001A	Black caulking on metal pannels of glass curtain wall Level R elevator lobby	None Detected		100% Other	Black Non Fibrous Homogeneous
11810850PLM_1					Ashed, Dissolved
0001B	Black caulking on metal pannels of glass curtain wall Level R elevator lobby	None Detected		100% Other	Black Non Fibrous Homogeneous
11810850PLM_2					Ashed, Dissolved
0001C	Black caulking on metal pannels of glass curtain wall Level R elevator lobby	None Detected		100% Other	Black Non Fibrous Homogeneous
11810850PLM_3					Ashed, Dissolved
0002A	Pinkish caulking under grey caulking on masonry cap, Level R	None Detected		100% Other	Pink Non Fibrous Homogeneous
11810850PLM_4					Ashed, Dissolved
0002B	Pinkish caulking under grey caulking on masonry cap, Level R	None Detected		100% Other	Pink Non Fibrous Homogeneous
11810850PLM_5					Ashed, Dissolved
0002C	Pinkish caulking under grey caulking on masonry cap, off debris on ground	None Detected		100% Other	Pink Non Fibrous Homogeneous
11810850PLM_6					Ashed, Dissolved
0003A	White caulking on eavestrough, Level R	1% Chrysotile		99% Other	White Non Fibrous Homogeneous
11810850PLM_7					Dissolved, Ashed
0003B	White caulking on eavestrough, Level R	1% Chrysotile		99% Other	White Non Fibrous Homogeneous
11810850PLM_8					Dissolved, Ashed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAL. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bethany Nichols (36)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



Customer: Pinchin Ltd.
6-875 Main St West
Suite 200
Hamilton, Ontario L8S 4P9

Attn: Robert Bertin-Fenney
Michael Maiorana

Lab Order ID: 11810850
Analysis ID: 11810850_PLM
Date Received: 5/2/2018
Date Reported: 5/8/2018

Project: HazMat Survey, Juravinski Hospital Parking Garage

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
0003C	White caulking on metal pannels, Level R	1% Chrysotile		99% Other	White Non Fibrous Homogeneous
11810850PLM_9					Dissolved, Ashed
0004A	Black putty on glass curtain wall, Level R elevator Lobby	None Detected		100% Other	Black Non Fibrous Homogeneous
11810850PLM_10					Dissolved, Ashed
0004B	Black putty on glass curtain wall, Level R elevator Lobby	None Detected		100% Other	Black Non Fibrous Homogeneous
11810850PLM_11					Dissolved, Ashed
0004C	Black putty on glass curtain wall, Level R elevator Lobby	None Detected		100% Other	Black Non Fibrous Homogeneous
11810850PLM_12					Dissolved, Ashed
0005A	White caulking around vent pipe, Level 2	None Detected		100% Other	Gray Non Fibrous Homogeneous
11810850PLM_13					Dissolved, Ashed
0005B	White caulking around vent pipe, Level 2	None Detected		100% Other	Gray Non Fibrous Homogeneous
11810850PLM_14					Dissolved, Ashed
0005C	White caulking around vent pipe, Level 2	None Detected		100% Other	Gray Non Fibrous Homogeneous
11810850PLM_15					Dissolved, Ashed
0006A	DJC washroom, Level 1	None Detected		100% Other	White Non Fibrous Homogeneous
11810850PLM_16					Crushed

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Bethany Nichols (36)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



Customer: Pinchin Ltd.
6-875 Main St West
Suite 200
Hamilton, Ontario L8S 4P9

Attn: Robert Bertin-Fenney
Michael Maiorana

Lab Order ID: 11810850
Analysis ID: 11810850_PLM
Date Received: 5/2/2018
Date Reported: 5/8/2018

Project: HazMat Survey, Juravinski Hospital Parking Garage

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
0006B	DJC washroom, Level 1	None Detected		100% Other	White Non Fibrous Homogeneous
11810850PLM_17					Crushed
0006C	DJC Parking Office	None Detected		100% Other	White Non Fibrous Homogeneous
11810850PLM_18					Crushed
0007A	Grey caulking on masonry cap, Level 1	None Detected		100% Other	Gray Non Fibrous Homogeneous
11810850PLM_19					Dissolved, Ashed
0007B	Grey caulking on masonry cap, Level 3	None Detected		100% Other	Gray Non Fibrous Homogeneous
11810850PLM_20					Dissolved, Ashed
0007C	Grey caulking on masonry cap, Level R	None Detected		100% Other	Gray Non Fibrous Homogeneous
11810850PLM_21					Dissolved, Ashed
0008A	Grey caulking around window, Level 1 elevator lobby	None Detected		100% Other	Gray Non Fibrous Homogeneous
11810850PLM_22					Dissolved, Ashed
0008B	Grey caulking around window, Level 1 elevator lobby	None Detected		100% Other	Gray Non Fibrous Homogeneous
11810850PLM_23					Dissolved, Ashed
0008C	Grey caulking around window, Level 1 elevator lobby	None Detected		100% Other	Gray Non Fibrous Homogeneous
11810850PLM_24					Dissolved, Ashed

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Bethany Nichols (36)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



Customer: Pinchin Ltd.
6-875 Main St West
Suite 200
Hamilton, Ontario L8S 4P9

Attn: Robert Bertin-Fenney
Michael Maiorana

Lab Order ID: 11810850
Analysis ID: 11810850_PLM
Date Received: 5/2/2018
Date Reported: 5/8/2018

Project: HazMat Survey, Juravinski Hospital Parking Garage

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
0009A	Black window putty on Office window, Level 1 elevator lobby	None Detected	10% Cellulose	90% Other	Black Non Fibrous Homogeneous
11810850PLM_25					Dissolved, Ashed
0009B	Black window putty on Office window, Level 1 elevator lobby	None Detected	10% Cellulose	90% Other	Black Non Fibrous Homogeneous
11810850PLM_26					Dissolved, Ashed
0009C	Black window putty on Office window, Level 1 elevator lobby	None Detected	10% Cellulose	90% Other	Black Non Fibrous Homogeneous
11810850PLM_27					Dissolved, Ashed
0010A	Black exterior caulking on metal pannels, Level R elevator lobby	None Detected		100% Other	Black Non Fibrous Homogeneous
11810850PLM_28					Dissolved, Ashed
0010B	Black exterior caulking on metal pannels, Level R elevator lobby	None Detected		100% Other	Black Non Fibrous Homogeneous
11810850PLM_29					Dissolved, Ashed
0010C	Black exterior caulking on metal pannels, Level R elevator lobby	None Detected		100% Other	Black Non Fibrous Homogeneous
11810850PLM_30					Dissolved, Ashed
0011A	Off white caulking around door frame, Washroom Level 1	None Detected		100% Other	Cream Non Fibrous Homogeneous
11810850PLM_31					Dissolved, Ashed
0011B	Off white caulking around door frame, Washroom Level 1	None Detected		100% Other	Cream Non Fibrous Homogeneous
11810850PLM_32					Dissolved, Ashed

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Bethany Nichols (36)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



Customer: Pinchin Ltd.
6-875 Main St West
Suite 200
Hamilton, Ontario L8S 4P9

Attn: Robert Bertin-Fenney
Michael Maiorana

Lab Order ID: 11810850
Analysis ID: 11810850_PLM
Date Received: 5/2/2018
Date Reported: 5/8/2018

Project: HazMat Survey, Juravinski Hospital Parking Garage

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
0011C	Off white caulking around door frame, Washroom Level 1	None Detected		100% Other	Cream Non Fibrous Homogeneous
11810850PLM_33					Dissolved, Ashed
0012A	Off white caulking expansion joint caulking, Level 1	None Detected		100% Other	Cream Non Fibrous Homogeneous
11810850PLM_34					Dissolved, Ashed
0012B	Off white caulking expansion joint caulking, Level 5	None Detected		100% Other	Cream Non Fibrous Homogeneous
11810850PLM_35					Dissolved, Ashed
0012C	Off white caulking expansion joint caulking, Level R	None Detected		100% Other	Cream Non Fibrous Homogeneous
11810850PLM_36					Dissolved, Ashed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAL. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bethany Nichols (36)

Analyst

Approved Signatory

11810850

Version 1-15-2012

Client: Pinchin Ltd.
Contact: Robert Bertin-Fenney; Michael Maio
Address: 6-875 Main Street W, Hamilton, ON
Phone: 289.339.6880
Fax: 905.577.6207
Email: rbertin-fenney@pinchin.com;
mmaiorana@pinchin.com
Project: HazMat Survey, Juravinski Hospital
Client Notes:
P.O. #: 217420.017
Date Submitted: May 1 2018
Analysis: Asbestos Analysis
TurnAroundTime: Regular 5 day turnaround

***Instructions:**
 Use Column "B" for your contact info
 To See an Example Click the bottom Example Tab.
 Enter samples between "<<" and ">>"
 Begin Samples with a "<<" above the first sample and end with a ">>" below the last sample.
 Only Enter your data on the first sheet "Sheet1"
 Note: Data 1 and Data 2 are optional fields that do not show up on the official report, however they will be included in the electronic data returned to you to facilitate your reintegration of the report data.

Invoice to:
 Accounts Payable
ap@pinchin.com

Scientific Analytical Institute



4604 Dundas Dr.
Greensboro, NC 27407
Phone: 336.292.3888
Fax: 336.292.3313
Email: lab@sailab.com

Sample Number	Data 1 (Lab use only)	Sample Description	Data 2 (Lab use only)
---------------	-----------------------	--------------------	-----------------------

<<			
0001A		Black caulking on metal pannels of glass curtain wall Level R elevator lobby	
0001B		Black caulking on metal pannels of glass curtain wall Level R elevator lobby	
0001C		Black caulking on metal pannels of glass curtain wall Level R elevator lobby	
0002A		Pinkish caulking under grey caulking on masonry cap, Level R	
0002B		Pinkish caulking under grey caulking on masonry cap, Level R	
0002C		Pinkish caulking under grey caulking on masonry cap, off debris on ground	
0003A		White caulking on eavestrough, Level R	
0003B		White caulking on eavestrough, Level R	
0003C		White caulking on metal pannels, Level R	

Accepted

Rejected

K. Hamilton
 5/21/8
 10:30 AM

0004A	Black putty on glass curtain wall, Level R elevator Lobby
0004B	Black putty on glass curtain wall, Level R elevator Lobby
0004C	Black putty on glass curtain wall, Level R elevator Lobby
0005A	White caulking around vent pipe, Level 2
0005B	White caulking around vent pipe, Level 2
0005C	White caulking around vent pipe, Level 2
0006A	DJC washroom, Level 1
0006B	DJC washroom, Level 1
0006C	DJC Parking Office
0007A	Grey caulking on masonry cap, Level 1
0007B	Grey caulking on masonry cap, Level 3
0007C	Grey caulking on masonry cap, Level R
0008A	Grey caulking around window, Level 1 elevator lobby
0008B	Grey caulking around window, Level 1 elevator lobby
0008C	Grey caulking around window, Level 1 elevator lobby
0009A	Black window putty on Office window, Level 1 elevator lobby
0009B	Black window putty on Office window, Level 1 elevator lobby
0009C	Black window putty on Office window, Level 1 elevator lobby
0010A	Black exterior caulking on metal pannels, Level R elevator lobby
0010B	Black exterior caulking on metal pannels, Level R elevator lobby
0010C	Black exterior caulking on metal pannels, Level R elevator lobby
0011A	Off white caulking around door frame, Washroom Level 1
0011B	Off white caulking around door frame, Washroom Level 1
0011C	Off white caulking around door frame, Washroom Level 1
0012A	Off white caulking expansion joint caulking, Level 1
0012B	Off white caulking expansion joint caulking, Level 5
0012C	Off white caulking expansion joint caulking, Level R

>>



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name:	Hamilton Health Science, 711 Concession St, Hamilton, ON		
Project No.:	0217420.022		
Prepared For:	R. Bertin-Fenney / M. Maiorana		
	Date Received:	May 2, 2018	
Lab Reference No.:	b188717	Date Analyzed:	May 9, 2018
Analyst(s):	K. Cockburn	# Samples submitted:	3
		# Phases analyzed:	1

Method of Analysis:

EPA 600/R-93/116 - Method for the Determination of Asbestos in Bulk Building Materials dated July, 1993

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. A reported concentration of less than (<) the regulatory threshold (see chart below) indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with provincial regulatory requirements where applicable. Multiple phases within a sample are analyzed and reported separately.

Provincial Jurisdiction	Regulatory Threshold	Provincial Jurisdiction	Regulatory Threshold
Ontario, British Columbia, Nova Scotia	0.5%	Manitoba	0.1% friable 1% non-friable
Quebec	0.1%	Saskatchewan	0.5% friable 1% non-friable
Alberta, NWT, Yukon, Nunavut	1%	Newfoundland and Labrador, PEI and New Brunswick	1%

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

Pinchin Ltd. is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 101270-0) for the 'EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples,' and the 'EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials'; and meets all requirements of ISO/IEC 17025:2005.

This report relates only to the items tested.

NOTE: *This test report may not be reproduced, except in full, without the written approval of the laboratory. The client may not use this report to claim product endorsement by NVLAP or any agency of the U.S. Government. This report is valid only when signed in blue ink by the analyst. Vinyl asbestos floor tiles contain very fine fibres of asbestos and may be missed by some laboratories using the PLM method. Internal verification studies performed by Pinchin indicate that the chance of missing asbestos in floor tiles is no higher than about 2%. The vinyl tile study and laboratory documentation on measurement uncertainty is available upon request. The analysis of dust samples by PLM cannot be used as an indicator of past or present airborne asbestos fibre levels.*



Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name: Hamilton Health Science, 711 Concession St, Hamilton, ON
Project No.: 0217420.022
Prepared For: R. Bertin-Fenney / M. Maiorana

Lab Reference No.: b188717
Date Analyzed: May 9, 2018

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
0001A Bakelite bench top, Lab F2 214	Homogeneous, black, hard, cementitious material.	Chrysotile 10-25%	Non-Fibrous Material > 75%
0001B Bakelite shelving, Lab F2 214			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		
0001C Bakelite back splash, Lab F2 214			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		

Reviewed by:

Reporting Analyst:



Analyzed by: KC
 Reviewed by: HPB
 Report Sent by: JR

Instructions:

**Pinchin Ltd. - Asbestos Laboratory
 Internal Asbestos Bulk Sample Chain of Custody**

Client Name:	Hamilton Health Science	Project Address:	711 Concession St, Hamilton, ON
Portfolio/Building No:		Pinchin File:	217420.022
Submitted by:	Robert Bertin-Fenney	Email:	rbertin-fenney@pinchin.com
CC Results to:	Michael Maiorana	CC Email:	mmaiorana@pinchin.com
Invoice to:	Accounts Payable	Invoice Email:	ap@pinchin.com
Date Submitted:	May 1 2018	Required by:	May 8 2018
# of Samples:	3	Priority:	5 Day Turnaround
Year of Building Construction (Mandatory Field):			
Do NOT Stop on Positive (Sample Numbers):			
Pinchin Group Company (Mandatory Field):	Pinchin		

To be Completed by Lab Personnel Only:					
Lab Reference #:	0188717		Time:	24 hour clock	
Received by:	MAY 02 2018 JK		Date:	Month	Day Year
Name(s) of Analyst(s):	KC 18:05:09 (1)				
Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)		
	0001	A	Bakelite bench top, Lab F2 214	CH 10-257	
	0001	B	Bakelite shelving, Lab F2 214	- NA -	
	0001	C	Bakelite back splash, Lab F2 214	- NA -	



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: HHS , 711 Concession Street, Hamilton, ON
Project No.: 0217420.033
Prepared For: R. Bertin-Fenney / M. Maiorana
Lab Reference No.: b191079
Analyst(s): A. Di Giulio
Date Received: June 11, 2018 **# Samples submitted:** 6
Date Analyzed: June 18, 2018 **# Phases analyzed:** 12

Method of Analysis:

EPA 600/R-93/116 - Method for the Determination of Asbestos in Bulk Building Materials dated July, 1993

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. A reported concentration of less than (<) the regulatory threshold (see chart below) indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with provincial regulatory requirements where applicable. Multiple phases within a sample are analyzed and reported separately.

Provincial Jurisdiction	Regulatory Threshold	Provincial Jurisdiction	Regulatory Threshold
Ontario, British Columbia, Nova Scotia	0.5%	Manitoba	0.1% friable 1% non-friable
Quebec	0.1%	Saskatchewan	0.5% friable 1% non-friable
Alberta, NWT, Yukon, Nunavut	1%	Newfoundland and Labrador, PEI and New Brunswick	1%

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

Pinchin Ltd. is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 101270-0) for the 'EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples,' and the 'EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials'; and meets all requirements of ISO/IEC 17025:2005.

This report relates only to the items tested.

NOTE: *This test report may not be reproduced, except in full, without the written approval of the laboratory. The client may not use this report to claim product endorsement by NVLAP or any agency of the U.S. Government. This report is valid only when signed in blue ink by the analyst. Vinyl asbestos floor tiles contain very fine fibres of asbestos and may be missed by some laboratories using the PLM method. Internal verification studies performed by Pinchin indicate that the chance of missing asbestos in floor tiles is no higher than about 2%. The vinyl tile study and laboratory documentation on measurement uncertainty is available upon request. The analysis of dust samples by PLM cannot be used as an indicator of past or present airborne asbestos fibre levels.*



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: HHS , 711 Concession Street, Hamilton, ON
Project No.: 0217420.033
Prepared For: R. Bertin-Fenney / M. Maiorana

Lab Reference No.: b191079
Date Analyzed: June 18, 2018

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
0001A DJC, Nora's Café	Homogeneous, white, drywall joint compound.	None Detected	Non-Fibrous Material > 75%
0001B DJC, Nora's Café	Homogeneous, white, drywall joint compound.	None Detected	Non-Fibrous Material > 75%
Comments:	Cellulose is present on the surface of this sample.		
0001C DJC, Nora's Café	Homogeneous, white, drywall joint compound.	None Detected	Non-Fibrous Material > 75%
Comments:	Cellulose is present on the surface of this sample.		
0002A VSF, marble pattern, Nora's Café	3 Phases: a) Homogeneous, beige, woven fabric on the back of vinyl sheet flooring.	None Detected	Cellulose > 75%
	b) Homogeneous, yellow, adhesive material on the back of vinyl sheet flooring.	None Detected	Non-Fibrous Material > 75%
	c) Homogeneous, grey, levelling compound on the back of vinyl sheet flooring.	None Detected	Non-Fibrous Material > 75%
0002B VSF, marble pattern, Nora's Café	3 Phases: a) Homogeneous, beige, woven fabric on the back of vinyl sheet flooring.	None Detected	Cellulose > 75%
	b) Homogeneous, yellow, adhesive material on the back of vinyl sheet flooring.	None Detected	Non-Fibrous Material > 75%
	c) Homogeneous, grey, levelling compound on the back of vinyl sheet flooring.	None Detected	Non-Fibrous Material > 75%



Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name: HHS , 711 Concession Street, Hamilton, ON
Project No.: 0217420.033
Prepared For: R. Bertin-Fenney / M. Maiorana

Lab Reference No.: b191079
Date Analyzed: June 18, 2018

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
0002C VSF, marble pattern, Nora's Café	3 Phases:		
	a) Homogeneous, beige, woven fabric on the back of vinyl sheet flooring.	None Detected	Cellulose > 75%
	b) Homogeneous, yellow, adhesive material on the back of vinyl sheet flooring.	None Detected	Non-Fibrous Material > 75%
	c) Homogeneous, grey, levelling compound on the back of vinyl sheet flooring.	None Detected	Non-Fibrous Material > 75%

Reviewed by:

Reporting Analyst:



Analyzed by: AW
 Reviewed by: [Signature]
 Report Sent by: [Signature]

Instructions:

**Pinchin Ltd. - Asbestos Laboratory
 Internal Asbestos Bulk Sample Chain of Custody**

Client Name:	HHS	Project Address:	711 Concession Street, Hamilton, ON
Portfolio/Building No:		Pinchin File:	217420.033
Submitted by:	Robert Bertin-Fenney	Email:	rbertin-fenney@pinchin.com
CC Results to:	Micheal Maiorana	CC Email:	mmaiorana@pinchin.com
Invoice to:	Accounts Payable	Invoice Email:	ap@pinchin.com
Date Submitted:	June 8 2018	Required by:	June 15 2018
# of Samples:	36	Priority:	5 Day Turnaround
Year of Building Construction (Mandatory Field):			
Do NOT Stop on Positive (Sample Numbers):			
Pinchin Group Company (Mandatory Field):			Pinchin

To be Completed by Lab Personnel Only:

Lab Reference #:	5191079	Time:	24 hour clock
Received by:	JUN 11 2018 [Signature]	Date:	Month Day Year
Name(s) of Analyst(s):	1 AW 06/18/18		

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
	0001	A	DJC, Nora's Café ND
	0001	B	DJC, Nora's Café ND
	0001	C	DJC, Nora's Café ND
	0002	A	VSF, marble pattern, Nora's Café AND BND CND
	0002	B	VSF, marble pattern, Nora's Café AND BND CND
	0002	C	VSF, marble pattern, Nora's Café AND BND CND



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name:	Hamilton Health Sciences		
	Juravinski Hospital - 711 Concession St, Hamilton, ON		
Project No.:	0217420.030		
Prepared For:	L. Cantar / M. Maiorana		
Lab Reference No.:	b195703		
Analyst(s):	C. Luong		
# Samples submitted:	42	Date Received:	August 27, 2018
# Phases analyzed:	44	Date Analyzed:	September 4, 2018

Method of Analysis:

EPA 600/R-93/116 - Method for the Determination of Asbestos in Bulk Building Materials dated July, 1993

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. A reported concentration of less than (<) the regulatory threshold (see chart below) indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with provincial regulatory requirements where applicable. Multiple phases within a sample are analyzed and reported separately.

Provincial Jurisdiction	Regulatory Threshold	Provincial Jurisdiction	Regulatory Threshold
Ontario, British Columbia, Nova Scotia	0.5%	Alberta	Undefined
Quebec	0.1%	Saskatchewan	0.5% friable 1% non-friable
PEI, NWT, Yukon, Nunavut, Newfoundland and Labrador, and New Brunswick	1%	Manitoba	0.1% friable 1% non-friable

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

Pinchin Ltd. is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 101270-0) for the 'EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples,' and the 'EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials'; and meets all requirements of ISO/IEC 17025:2005.

This report relates only to the items tested.

NOTE: *This test report may not be reproduced, except in full, without the written approval of the laboratory. The client may not use this report to claim product endorsement by NVLAP or any agency of the U.S. Government. This report is valid only when signed in blue ink by the analyst. Vinyl asbestos floor tiles contain very fine fibres of asbestos and may be missed by some laboratories using the PLM method. Internal verification studies performed by Pinchin indicate that the chance of missing asbestos in floor tiles is no higher than about 2%. The vinyl tile study and laboratory documentation on measurement uncertainty is available upon request. The analysis of dust samples by PLM cannot be used as an indicator of past or present airborne asbestos fibre levels.*



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences
 Juravinski Hospital - 711 Concession St, Hamilton, ON
Project No.: 0217420.030
Prepared For: L. Cantar / M. Maiorana

Lab Reference No.: b195703
Date Analyzed: September 4, 2018

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
2018-0001A Mastic ONLY on vinyl floor tiles (9" x 9" green with white flecks), North Stair, M0	Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile 0.5-5%	Tar and other non-fibrous > 75%
Comments:	Another phase is present but was not analyzed as requested.		
2018-0001B Mastic ONLY on vinyl floor tiles (9" x 9" green with white flecks), North Stair, M1			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		
2018-0001C Mastic ONLY on vinyl floor tiles (9" x 9" green with white flecks), South Stair, MG (between 0 and 1)			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		
2018-0002A Vinyl sheet flooring, brown pebbles, Conference Room, M1-32	2 Phases: a) Homogeneous, beige, consolidated, fibrous material on the back of vinyl sheet flooring. b) Homogeneous, yellow, hard material on the back of vinyl flooring.	None Detected None Detected	Cellulose 50-75% Man-made Vitreous Fibres 0.5-5% Synthetic Fibres 0.5-5% Wollastonite 0.5-5% Non-Fibrous Material 25-50% Non-Fibrous Material > 75%



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences
 Juravinski Hospital - 711 Concession St, Hamilton, ON
Project No.: 0217420.030
Prepared For: L. Cantar / M. Maiorana

Lab Reference No.: b195703
Date Analyzed: September 4, 2018

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
2018-0002B Vinyl sheet flooring, brown pebbles, Conference Room, M1-32	2 Phases: a) Homogeneous, beige, consolidated, fibrous material on the back of vinyl sheet flooring.	None Detected	Cellulose 50-75% Man-made Vitreous Fibres 0.5-5% Synthetic Fibres 0.5-5% Wollastonite 0.5-5% Non-Fibrous Material 25-50%
	b) Homogeneous, yellow, hard material on the back of vinyl flooring.	None Detected	Non-Fibrous Material > 75%
2018-0002C Vinyl sheet flooring, brown pebbles, Conference Room, M1-32	2 Phases: a) Homogeneous, beige, consolidated, fibrous material on the back of vinyl sheet flooring.	None Detected	Cellulose 50-75% Man-made Vitreous Fibres 0.5-5% Synthetic Fibres 0.5-5% Wollastonite 0.5-5% Non-Fibrous Material 25-50%
	b) Homogeneous, yellow, hard material on the back of vinyl flooring.	None Detected	Non-Fibrous Material > 75%
2018-0003A Mastic ONLY on vinyl floor tiles (9" x 9" white with brown/black lines), G0 Corridor near Security	Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other non-fibrous > 75%
Comments:	Another phase is present but was not analyzed as requested.		



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences
 Juravinski Hospital - 711 Concession St, Hamilton, ON
Project No.: 0217420.030
Prepared For: L. Cantar / M. Maiorana

Lab Reference No.: b195703
Date Analyzed: September 4, 2018

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
2018-0003B Mastic ONLY on vinyl floor tiles (9" x 9" white with brown/black lines), G0 File Storage beside WC	Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other non-fibrous > 75%
Comments:	Another phase is present but was not analyzed as requested.		
2018-0003C Mastic ONLY on vinyl floor tiles (9" x 9" white with brown/black lines), G0 Corridor near Rm 12	Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other non-fibrous > 75%
Comments:	This sample is small in size. For more reliable results, a larger sample is required. Another phase is present but was not analyzed as requested.		
2018-0004A Mastic ONLY on vinyl floor tiles (9" x 9" brown with white and brown lines), G0 Data Room	Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile 0.5-5%	Tar and other non-fibrous > 75%
Comments:	Another phase is present but was not analyzed as requested.		
2018-0004B Mastic ONLY on vinyl floor tiles (9" x 9" brown with white and brown lines), G0 Data Room			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences
 Juravinski Hospital - 711 Concession St, Hamilton, ON
Project No.: 0217420.030
Prepared For: L. Cantar / M. Maiorana

Lab Reference No.: b195703
Date Analyzed: September 4, 2018

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
2018-0004C Mastic ONLY on vinyl floor tiles (9" x 9" brown with white and brown lines), G0 Data Room			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		
2018-0005A Mastic ONLY on vinyl floor tiles (12" x 12" brown with dark brown flecks), G0 Room 12	Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other non-fibrous > 75%
Comments:	Another phase is present but was not analyzed as requested.		
2018-0005B Mastic ONLY on vinyl floor tiles (12" x 12" brown with dark brown flecks), G0 Room 12	Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other non-fibrous > 75%
Comments:	Another phase is present but was not analyzed as requested.		
2018-0005C Mastic ONLY on vinyl floor tiles (12" x 12" brown with dark brown flecks), G0 Room 12	Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other non-fibrous > 75%
Comments:	Another phase is present but was not analyzed as requested.		



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences
 Juravinski Hospital - 711 Concession St, Hamilton, ON
Project No.: 0217420.030
Prepared For: L. Cantar / M. Maiorana

Lab Reference No.: b195703
Date Analyzed: September 4, 2018

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
2018-0006A Mastic ONLY on vinyl floor tiles (9" x 9" brown with thin brown lines), E1 Corridor near Rm 18	Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile < 0.5%	Tar and other non-fibrous > 75%
Comments:	This sample is small in size. For more reliable results, a larger sample is required. Another phase is present but was not analyzed as requested.		
2018-0006B Mastic ONLY on vinyl floor tiles (9" x 9" brown with thin brown lines), E4 Corridor near Rm 19	Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile < 0.5%	Tar and other non-fibrous > 75%
Comments:	Another phase is present but was not analyzed as requested.		
2018-0006C Mastic ONLY on vinyl floor tiles (9" x 9" brown with thin brown lines), E4 Corridor near Rm 20	Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile < 0.5%	Tar and other non-fibrous > 75%
Comments:	Another phase is present but was not analyzed as requested.		
2018-0007A Mastic ONLY on vinyl floor tiles (9" x 9" brown flecks), E3 Corridor near Room 1	Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other non-fibrous > 75%
Comments:	Another phase is present but was not analyzed as requested.		



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences
 Juravinski Hospital - 711 Concession St, Hamilton, ON
Project No.: 0217420.030
Prepared For: L. Cantar / M. Maiorana

Lab Reference No.: b195703
Date Analyzed: September 4, 2018

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
2018-0007B Mastic ONLY on vinyl floor tiles (9" x 9" brown flecks), F3 Corridor near Room 21	Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other non-fibrous > 75%
Comments:	Another phase is present but was not analyzed as requested.		
2018-0007C Mastic ONLY on vinyl floor tiles (9" x 9" brown flecks), E3 Corridor near Room 18	Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile < 0.5%	Tar and other non-fibrous > 75%
Comments:	Another phase is present but was not analyzed as requested.		
2018-0008A Mastic ONLY on vinyl floor tiles (12" x 12" beige), E4 Patient Lounge	Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other non-fibrous > 75%
Comments:	Another phase is present but was not analyzed as requested.		
2018-0008B Mastic ONLY on vinyl floor tiles (12" x 12" red). E4 Patient Lounge	Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other non-fibrous > 75%
Comments:	Another phase is present but was not analyzed as requested.		
2018-0008C Mastic ONLY on vinyl floor tiles (12" x 12" blue), E4 Patient Lounge	Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other non-fibrous > 75%
Comments:	Another phase is present but was not analyzed as requested.		



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences
 Juravinski Hospital - 711 Concession St, Hamilton, ON
Project No.: 0217420.030
Prepared For: L. Cantar / M. Maiorana

Lab Reference No.: b195703
Date Analyzed: September 4, 2018

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
2018-0009A Mastic ONLY on vinyl floor tiles (12" x 12" black and green flecks), E5 Dark Room	Homogeneous, yellow, hard material on the back of vinyl flooring.	Chrysotile 0.5-5%	Non-Fibrous Material > 75%
Comments:	Another phase is present but was not analyzed as requested.		
2018-0009B Mastic ONLY on vinyl floor tiles (12" x 12" black and green flecks), E5 Dark Room			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		
2018-0009C Mastic ONLY on vinyl floor tiles (12" x 12" black and green flecks), E5 Dark Room			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		
2018-0010A Mastic ONLY on vinyl floor tiles (9" x 9" green with black flecks), E2 Corridor near Room 1	Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other non-fibrous > 75%
2018-0010B Mastic ONLY on vinyl floor tiles (9" x 9" green with black flecks), E2 Corridor near Room 20	Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other non-fibrous > 75%
Comments:	Another phase is present but was not analyzed as requested.		



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences
 Juravinski Hospital - 711 Concession St, Hamilton, ON
Project No.: 0217420.030
Prepared For: L. Cantar / M. Maiorana

Lab Reference No.: b195703
Date Analyzed: September 4, 2018

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
2018-0010C Mastic ONLY on vinyl floor tiles (9" x 9" green with black flecks), E2 Corridor near Room 20	Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other non-fibrous > 75%
Comments:	Another phase is present but was not analyzed as requested.		
2018-0011A Rough plaster wall, service tunnel to R Wing Boiler House	2 Phases: a) Homogeneous, white, hard, cementitious material. b) Homogeneous, grey, hard, cementitious material.	None Detected None Detected	Perlite 25-50% Other Non-Fibrous 50-75% Synthetic Fibres < 0.5% Non-Fibrous Material > 75%
2018-0011B Rough plaster wall, service tunnel to R Wing Boiler House	Homogeneous, white, hard, cementitious material.	None Detected	Perlite 25-50% Other Non-Fibrous 50-75%
2018-0011C Rough plaster wall, service tunnel to R Wing Boiler House	2 Phases: a) Homogeneous, white, hard, cementitious material. b) Homogeneous, grey, hard, cementitious material.	None Detected None Detected	Perlite 25-50% Non-Fibrous Material 50-75% Synthetic Fibres < 0.5% Non-Fibrous Material > 75%
2018-0012A Rough plaster on wall, Middle Level, R Wing Boiler House	2 Phases: a) Homogeneous, grey, hard, cementitious material. b) Homogeneous, red, soft, cementitious material.	None Detected None Detected	Non-Fibrous Material > 75% Non-Fibrous Material > 75%



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: Hamilton Health Sciences
 Juravinski Hospital - 711 Concession St, Hamilton, ON
Project No.: 0217420.030
Prepared For: L. Cantar / M. Maiorana

Lab Reference No.: b195703
Date Analyzed: September 4, 2018

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
2018-0012B Rough plaster on wall, Middle Level, R Wing Boiler House	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, red, soft, cementitious material.	None Detected	Non-Fibrous Material > 75%
2018-0012C Rough plaster on wall, Middle Level, R Wing Boiler House	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, red, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
2018-0013A Mastic ONLY on vinyl floor tiles (12" x 12" beige flecks), R3, Boiler House Lowest Level	Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other non- fibrous > 75%
Comments:	Another phase is present but was not analyzed as requested.		
2018-0013B Mastic ONLY on vinyl floor tiles (12" x 12" beige flecks), R3, Boiler House Lowest Level	Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other non- fibrous > 75%
Comments:	Another phase is present but was not analyzed as requested.		
2018-0013C Mastic ONLY on vinyl floor tiles (12" x 12" beige flecks), R3, Boiler House Lowest Level	Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other non- fibrous > 75%
Comments:	Another phase is present but was not analyzed as requested.		



**Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis**

Project Name: Hamilton Health Sciences
Project No.: 0217420.030
Prepared For: L. Cantar / M. Maiorana
Lab Reference No.: b195703
Date Analyzed: September 4, 2018

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
2018-0014A Mastic ONLY on vinyl floor tiles (12" x 12" white with black streaks), L1, W/C	Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other non-fibrous > 75%
Comments:	Another phase is present but was not analyzed as requested.		
2018-0014B Mastic ONLY on vinyl floor tiles (12" x 12" white with black streaks), L1, W/C	Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other non-fibrous > 75%
Comments:	Another phase is present but was not analyzed as requested.		
2018-0014C Mastic ONLY on vinyl floor tiles (12" x 12" white with black streaks), L1, W/C	Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other non-fibrous > 75%
Comments:	Another phase is present but was not analyzed as requested.		

Reviewed by:

Reporting Analyst:



Analyzed by: C.J.

Reviewed by: KB

Report Sent by: EL

Special Instructions:

**Pinchin Ltd. - Asbestos Laboratory
 Internal Asbestos Bulk Sample Chain of Custody**

Client Name:	Hamilton Health Sciences	Project Address:	Juravinski Hospital - 711 Concession St, Hamilton, ON
Portfolio/Building No:		Pinchin File:	217420.03
Submitted by:	Leslie Cantar	Email:	lcantar@pinchin.com
CC Results to:	Michael Maiorana	CC Email:	mmaiorana@pinchin.com
Invoice to:	Accounts Payable	Invoice Email:	ap@pinchin.com
Date Submitted:	August 27 2018	Required by:	September 6 2018
# of Samples:	3842	Priority:	5 Day Turnaround
Year of Building Construction (Mandatory Field):	1954		
Do NOT Stop on Positive (Sample Numbers):			
Pinchin Group Company (Mandatory Field):	Pinchin		

To be Completed by Lab Personnel Only:

Lab Reference #:	0195703	Time:	24 hour clock		
Received by:	AUG 27 2018	Date:	Month	Day	Year
Name(s) of Analyst(s):	CJ		Sept.	04	2018

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
2018-	0001	A	Mastic ONLY on vinyl floor tiles (9" x 9" green with white flecks), North Stair, M0 CHO.5-5%
2018-	0001	B	Mastic ONLY on vinyl floor tiles (9" x 9" green with white flecks), North Stair, M1 -NA-
2018-	0001	C	Mastic ONLY on vinyl floor tiles (9" x 9" green with white flecks), South Stair, MG (between 0 and 1) -NA-
2018-	0002	A	Vinyl sheet flooring, brown pebbles, Conference Room, M1-32 a)ND b)ND
2018-	0002	B	Vinyl sheet flooring, brown pebbles, Conference Room, M1-32 a)ND b)ND
2018-	0002	C	Vinyl sheet flooring, brown pebbles, Conference Room, M1-32 a)ND b)ND

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Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
2018-	0003	A	Mastic ONLY on vinyl floor tiles (9" x 9" white with brown/black lines), G0 Corridor near Security NO
2018-	0003	B	Mastic ONLY on vinyl floor tiles (9" x 9" white with brown/black lines), G0 File Storage beside WC NO
2018-	0003	C	Mastic ONLY on vinyl floor tiles (9" x 9" white with brown/black lines), G0 Corridor near Rm 12 NO
2018-	0004	A	Mastic ONLY on vinyl floor tiles (9" x 9" brown with white and brown lines), G0 Data Room CH 0.5-5%
2018-	0004	B	Mastic ONLY on vinyl floor tiles (9" x 9" brown with white and brown lines), G0 Data Room - NA -
2018-	0004	C	Mastic ONLY on vinyl floor tiles (9" x 9" brown with white and brown lines), G0 Data Room - NA -
2018-	0005	A	Mastic ONLY on vinyl floor tiles (12" x 12" brown with dark brown flecks), G0 Room 12 NO
2018-	0005	B	Mastic ONLY on vinyl floor tiles (12" x 12" brown with dark brown flecks), G0 Room 12 NO
2018-	0005	C	Mastic ONLY on vinyl floor tiles (12" x 12" brown with dark brown flecks), G0 Room 12 NO
2018-	0006	A	Mastic ONLY on vinyl floor tiles (9" x 9" brown with thin brown lines), E1 Corridor near Rm 18 CH < 0.5%
2018-	0006	B	Mastic ONLY on vinyl floor tiles (9" x 9" brown with thin brown lines), E4 Corridor near Rm 19 CH < 0.5%
2018-	0006	C	Mastic ONLY on vinyl floor tiles (9" x 9" brown with thin brown lines), E4 Corridor near Rm 20 CH < 0.5%
2018-	0007	A	Mastic ONLY on vinyl floor tiles (9" x 9" brown flecks), E3 Corridor near Room 1 NO
2018-	0007	B	Mastic ONLY on vinyl floor tiles (9" x 9" brown flecks), F3 Corridor near Room 21 NO
2018-	0007	C	Mastic ONLY on vinyl floor tiles (9" x 9" brown flecks), E3 Corridor near Room 18 CH < 0.5%
2018-	0008	A	Mastic ONLY on vinyl floor tiles (12" x 12" beige), E4 Patient Lounge NO



Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
2018-	0008	B	Mastic ONLY on vinyl floor tiles (12" x 12" red), E4 Patient Lounge ND
2018-	0008	C	Mastic ONLY on vinyl floor tiles (12" x 12" blue), E4 Patient Lounge ND
2018-	0009	A	Mastic ONLY on vinyl floor tiles (12" x 12" black and green flecks), E5 Dark Room CH0.5-5%
2018-	0009	B	Mastic ONLY on vinyl floor tiles (12" x 12" black and green flecks), E5 Dark Room -NA-
2018-	0009	C	Mastic ONLY on vinyl floor tiles (12" x 12" black and green flecks), E5 Dark Room -NA-
2018-	0010	A	Mastic ONLY on vinyl floor tiles (9" x 9" green with black flecks), E2 Corridor near Room 1 ND
2018-	0010	B	Mastic ONLY on vinyl floor tiles (9" x 9" green with black flecks), E2 Corridor near Room 20 ND
2018-	0010	C	Mastic ONLY on vinyl floor tiles (9" x 9" green with black flecks), E2 Corridor near Room 20 ND
2018-	0011	A	Rough plaster wall, service tunnel to R Wing Boiler House a)ND b)ND
2018-	0011	B	Rough plaster wall, service tunnel to R Wing Boiler House ND
2018-	0011	C	Rough plaster wall, service tunnel to R Wing Boiler House a)ND b)ND
2018-	0012	A	Rough plaster on wall, Middle Level, R Wing Boiler House a)ND b)ND
2018-	0012	B	Rough plaster on wall, Middle Level, R Wing Boiler House a)ND b)ND
2018-	0012	C	Rough plaster on wall, Middle Level, R Wing Boiler House a)ND b)ND
2018-	0013	A	Mastic ONLY on vinyl floor tiles (12" x 12" beige flecks), R3, Boiler House Lowest Level ND
2018-	0013	B	Mastic ONLY on vinyl floor tiles (12" x 12" beige flecks), R3, Boiler House Lowest Level ND

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Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
2018-	0013	C	Mastic ONLY on vinyl floor tiles (12" x 12" beige flecks), R3, Boiler House Lowest Level ND
2018-	0014	A	Mastic ONLY on vinyl floor tiles (12x12 white with black streaks), LI, W/C ND
2018-	0014	B	Mastic ONLY on vinyl floor tiles (12x12 white with black streaks), LI, W/C ND
2018-	0014	C	Mastic ONLY on vinyl floor tiles (12x12 white with black streaks), LI, W/C ND

* sample 2018-0014A-C added as per email.

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APPENDIX III
Data Tables



DATA TABLES OF ASBESTOS LOCATIONS JURAVINSKI HOSPITAL

05 Wing – Boiler House

Material	Locations	Approximate Quantity	ACM
Parging cement	Basement (highest level) on pipe fittings	4 Fittings	Chrysotile
12" x 12" vinyl floor tiles, beige with streaks	Lowest Basement Level	100 SF	Chrysotile

40 Wing – Maternity Building

Material	Locations	Approximate Quantity	ACM
Parging cement	Throughout building on pipe fittings	Majority of pipe fittings	Chrysotile
Magblock	Basement storage and corridors on straight sections of pipe	300 LF	Chrysotile
Aircell	Throughout building on straight sections of pipe	Not estimated	Chrysotile
24" x 24" Ceiling tiles, large fissure and pinhole pattern	Level 1, Corridors and Rooms	4,000 SF	Chrysotile
Brown ceiling tile mastic	On concrete or plaster substrate above lay-in ceilings on Levels 2, 3, and 4	Not estimated	Chrysotile
12" x 12" vinyl floor tiles, white with brown line pattern	Level 0 Conference Room 14 within Capital Development (former Central Media Lab Office)	1,000 SF	Chrysotile
12" x 12" vinyl floor tiles and mastic, brown	Basement Washroom adjacent to Housekeeping	200 SF	Chrysotile



Data Tables of ACM Locations

Juravinski Hospital, 711 Concession Street, Hamilton, Ontario
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with thick brown line pattern			
9" x 9" vinyl floor tiles and mastic, various	Level 0 Corridor, Stairwells, Mechanical Room and adjacent Office, North Entrance, Stairwells, Level 1 Corridor	4,000 SF	Chrysotile

60 Wing - G

Material	Locations	Approximate Quantity	ACM
Parging cement	Throughout building on pipe fittings	Majority of pipe fittings	Chrysotile
Black tar	Throughout Tunnel and Level 0 on drain pipe fittings	50 Fittings	Chrysotile
12" x 12" vinyl floor tiles and mastic	Level 0 Rooms 10 & 12	1,500 SF	Chrysotile
9" x 9" vinyl floor tiles and mastic	Level 0 Corridor, Room 16 & Adjacent Exam Room, Level 0 Rooms 1, 3, 4, 8, 13, 17, Telephone Room, Janitor's Closet	3,000 SF	Chrysotile
Duct vibration dampers	Front Entrance Foyer	Not Estimated	Presumed Asbestos
Rough plaster ceiling	East Stairwell	1,000 SF	Chrysotile

North & South 90 Wings, E & F

Material	Locations	Approximate Quantity	ACM
Parging cement on pipe fittings	Throughout building	Not estimated	Chrysotile



Data Tables of ACM Locations

Juravinski Hospital, 711 Concession Street, Hamilton, Ontario
Hamilton Health Sciences

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Aircell	Basement Service Tunnels	25 LF	Chrysotile
Parging cement on insulated ducts	Basement, rooms F1-109B and East Wing Penthouse	10,000 SF	Chrysotile
Parging cement on diesel generator exhaust	South end of basement	1,000 SF	Chrysotile
Parging cement on condensate tank	East of the elevator in basement	100 SF	Chrysotile
Insulation board within radiator boxes	Perimeter of building throughout	Not estimated	Chrysotile
9" x 9" vinyl floor tiles, brown with thin brown line	E Wing Level 1 Corridor (North), E & F Wing Level 4 Corridors (North and South)	Not estimated	Chrysotile
9" x 9" vinyl floor tiles, green with black fleck	E Wing Level 2 Corridor (North), F Wing Level 5 Corridor (South)	Not estimated	Chrysotile
9" x 9" vinyl floor tiles, white with blue lines	E Wing Level 2 Sun Room (North), F Wing Level 3 Reception, Family Room And Lounge (South), E Wing Level 3 Lounge (North), F Wing Level 4 Staff And Patient Lounge (South), F Wing Level 5 Waiting Area And Staff Room (South)	Not estimated	Chrysotile
9" x 9" vinyl floor tiles, brown fleck	E & F Wing Level 3 Corridor (North and South)	Not estimated	Chrysotile
Mastic below 9" x 9" vinyl floor tiles, black and green flecks	E Wing Level 5 Throughout (North)	Not estimated	Chrysotile
Rough plaster ceilings	Stairwells throughout E Wing and F Wing	Not estimated	Chrysotile



Data Tables of ACM Locations

Juravinski Hospital, 711 Concession Street, Hamilton, Ontario
Hamilton Health Sciences

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Appendix III

Plaster walls and ceilings	Throughout F Wing	Not estimated	Chrysotile
Bakelite bench tops, shelving, and back splashes	Throughout F Wing	Not estimated	Chrysotile
Paper heat shields in incandescent light fixtures	Throughout E Wing and F Wing	Not estimated	Presumed Asbestos

Former Kitchen Area – A Wing, Level 0

Material	Locations	Approximate Quantity	ACM
Parging cement on pipe fittings	Assume present above ceiling	Unknown	Assume chrysotile

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Template: Master Photo Appendix, HazMat, July 21, 2017

APPENDIX IV
ECOH Bulk Sampling Report

Hamilton Health Sciences Corporation
1200 Main Street West,
Hamilton, ON

May 25, 2017

Attention: **Mr. Corey LeGris**
Hazardous Materials Specialist | Facilities Management

Re: **Bulk Sample Analysis for Asbestos-containing Materials (ACMs)**
Juravinski Hospital – E, F, G, L and M-Wings
711 Concession Street, Hamilton, Ontario
ECO Project Number: 17429

ECO Management Inc. (ECO) was retained by Hamilton Health Sciences Corporation (HHSC) to provide environmental consulting services at the Juravinski Hospital and Cancer Centre (JHCC) located at 711 Concession Street, Hamilton, Ontario. The following letter report documents the environmental consulting services provided by ECO, which includes bulk sampling and analysis for asbestos content in various building materials (drywall joint compound and plaster walls) throughout the E, F, G, L and M-Wings of the JHCC. Ms. Carlie Goodhead, Ms. Brittanie Semper, Ms. Arianne Bohnert, and Mr. Marywan Baban of ECO were on-site March 27-29, 2017 to collect and submit bulk samples of various building materials for laboratory analysis to determine asbestos content.

All samples were submitted to the laboratory for 5-day turnaround time analysis on April 12th, 2017. The Certificate of Analysis for all sampling is provided at the end of the report. The sampling methodology and complete results of the sampling program are described herein.

Asbestos Bulk Sample Analysis:

As per the requirements of Ontario Regulation 278/05, multiple samples (ranging from 1 to 7 depending on quantity and type of material) are required to confirm the absence of asbestos. Only one positive result (i.e. confirming the presence of asbestos) is required to classify a material as asbestos-containing. Therefore, ECO's sampling strategy involves the collection of sufficient numbers of samples to meet regulatory requirements, followed by instructions to the laboratory to cease analysis when one sample within a series has already proven positive for asbestos. Sampling required a small volume of material to be removed either from a damaged section of suspect material or cut from intact material and then repaired, where practicable, by sealing with tape to prevent fibre release. The collected samples were placed in plastic bags and sealed during shipment to an independent laboratory. A formal chain of custody procedure was maintained between ECO and the sub-contract laboratory during sample transport.

EMSL Canada, Inc. (EMSL), which is independent commercial laboratory, analyzed the bulk sample(s) collected. Analysis of these sample(s) occurred following the analytical method prescribed by *Ontario Regulation 278/05, Designated Substance – Regulation respecting Asbestos*

on Construction Projects and in Buildings and Repair Operations. The analytical method prescribed is the U.S. Environmental Protection Agency Test Method EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials, June 1993, using Polarized Light Microscopy (PLM). Although not required by provincial regulation, all laboratories used by ECOH are accredited under the U.S. National Voluntary Laboratory Accreditation Program (NVLAP) to ensure consistent, accurate and defensible results.

Table 1 below indicates the sample collection information and results for bulk sampling.

TABLE 1			
Summary of Bulk Samples			
Sample number	Location	Description	Asbestos Content
17429-JH-E1-01A	Level 1 - E Wing – Staff Washroom	Drywall Joint Compound - Ceiling	None Detected
17429-JH-E1-01B	Level 1 - E Wing – Staff Washroom	Drywall Joint Compound - Ceiling	None Detected
17429-JH-E1-01C	Level 1 - E Wing – Staff Washroom	Drywall Joint Compound - Ceiling	None Detected
17429-JH-E1-01D	Level 1 - E Wing – Staff Washroom	Drywall Joint Compound - Ceiling	None Detected
17429-JH-E1-01E	Level 1 - E Wing – IT Room	Drywall Joint Compound – Ceiling	None Detected
17429-JH-E1-01F	Level 1 - E Wing – IT Room	Drywall Joint Compound – Ceiling	None Detected
17429-JH-E1-01G	Level 1 - E Wing – IT Room	Drywall Joint Compound – Ceiling	None Detected
17429-JH-E1-02A	Level 1 - E Wing – Staff Washroom	Plaster Ceiling	None Detected
17429-JH-E1-02B	Level 1 - E Wing – Corridor	Plaster Ceiling	None Detected
17429-JH-E1-02C	Level 1 - E Wing – Corridor	Plaster Ceiling	None Detected
17429-JH-E1-02D	Level 1 - E Wing – Washroom	Plaster Ceiling	None Detected
17429-JH-E1-02E	Level 1 - E Wing - Corridor	Plaster Ceiling	None Detected
17429-JH-E1-02F	Level 1 - E Wing – Corridor	Plaster Ceiling	None Detected

TABLE 1			
Summary of Bulk Samples			
17429-JH-E1-02G	Level 1 - E Wing – Corridor	Plaster Ceiling	None Detected
17429-JH-E1-03A	Level 1 - E Wing – IT Room	Ceiling Tile 8	None Detected
17429-JH-E1-03B	Level 1 - E Wing – IT Room	Ceiling Tile 8	None Detected
17429-JH-E1-03C	Level 1 - E Wing – IT Room	Ceiling Tile 8	None Detected
17429-JH-E2-02A	Level 2 - E Wing – Visitor’s Washroom	Plaster Ceiling	None Detected
17429-JH-E2-02B	Level 2 - E Wing – Kitchen	Plaster Ceiling	None Detected
17429-JH-E2-02C	Level 2 - E Wing – Staff Washroom	Plaster Ceiling	None Detected
17429-JH-E2-02D	Level 2 - E Wing – Storage	Plaster Ceiling	None Detected
17429-JH-E2-02E	Level 2 - E Wing - Corridor	Plaster Ceiling	None Detected
17429-JH-E2-02F	Level 2 - E Wing – Washroom	Plaster Ceiling	None Detected
17429-JH-E2-02G	Level 2 - E Wing – Corridor	Plaster Ceiling	None Detected
17429-JH-E2-03A	Level 2 - E Wing - Corridor	Ceiling Tile 9	None Detected
17429-JH-E2-03B	Level 2 - E Wing - Corridor	Ceiling Tile 9	None Detected
17429-JH-E2-03C	Level 2 - E Wing - Corridor	Ceiling Tile 9	None Detected
17429-JH-E3-02A	Level 3 - E Wing – Staff Washroom	Plaster Ceiling	None Detected
17429-JH-E3-02B	Level 3 - E Wing – Kitchen	Plaster Ceiling	None Detected
17429-JH-E3-02C	Level 3 - E Wing – Linen Storage	Plaster Ceiling	None Detected
17429-JH-E3-02D	Level 3 - E Wing – East Corridor Nurses Station	Plaster Ceiling	None Detected

TABLE 1			
Summary of Bulk Samples			
17429-JH-E3-02E	Level 3 - E Wing – Soiled Linen Room	Plaster Ceiling	None Detected
17429-JH-E3-02F	Level 3 - E Wing – East Corridor NE End	Plaster Ceiling	None Detected
17429-JH-E3-02G	Level 3 - E Wing – West Corridor Outside Allied Health Office	Plaster Ceiling	None Detected
17429-JH-E3-03A	Level 3 - E Wing – Corridor Nurses Station	Ceiling Tile 9	None Detected
17429-JH-E3-03B	Level 3 - E Wing – Corridor Nurses Station	Ceiling Tile 9	None Detected
17429-JH-E3-03C	Level 3 - E Wing – Corridor Nurses Station	Ceiling Tile 9	None Detected
17429-JH-E3-05A	Level 3 - E Wing – Physician and Residents Office	Ceiling Tile 10	None Detected
17429-JH-E3-05B	Level 3 - E Wing – Physician and Residents Office	Ceiling Tile 10	None Detected
17429-JH-E3-05C	Level 3 - E Wing – Physician and Residents Office	Ceiling Tile 10	None Detected
17429-JH-E4-02A	Level 4 - E Wing – Washroom	Plaster Ceiling	None Detected
17429-JH-E4-02B	Level 4 - E Wing – Soiled Linen Room	Plaster Ceiling	None Detected
17429-JH-E4-02C	Level 4 - E Wing – Equipment Room	Plaster Ceiling	None Detected
17429-JH-E4-02D	Level 4 - E Wing – Supply Room	Plaster Ceiling	None Detected
17429-JH-E4-02E	Level 4 - E Wing – Staff Washroom	Plaster Ceiling	None Detected
17429-JH-E4-02F	Level 4 - E Wing – Linen Storage	Plaster Ceiling	None Detected
17429-JH-E4-02G	Level 4 - E Wing – Physician Charting Room	Plaster Ceiling	None Detected
17429-JH-E4-03A	Level 4 - E Wing – East Corridor	Ceiling Tile 9	None Detected

TABLE 1			
Summary of Bulk Samples			
17429-JH-E4-03B	Level 4 - E Wing – East Corridor	Ceiling Tile 9	None Detected
17429-JH-E4-03C	Level 4 - E Wing – East Corridor	Ceiling Tile 9	None Detected
17429-JH-E5-01A	Level 5 - E Wing – Storage Room	Drywall Joint Compound Ceiling	None Detected
17429-JH-E5-01B	Level 5 - E Wing – Storage Room	Drywall Joint Compound Ceiling	None Detected
17429-JH-E5-01C	Level 5 - E Wing – Storage Room	Drywall Joint Compound Ceiling	None Detected
17429-JH-E5-01D	Level 5 - E Wing – Storage Room	Drywall Joint Compound Ceiling	None Detected
17429-JH-E5-01E	Level 5 - E Wing – Storage Room	Drywall Joint Compound Ceiling	None Detected
17429-JH-E5-02A	Level 5 - E Wing – Patient Room #1	Plaster Ceiling	None Detected
17429-JH-E5-02B	Level 5 - E Wing – Patient Room #4	Plaster Ceiling	None Detected
17429-JH-E5-02C	Level 5 - E Wing – Patient Room #4 Supply Room	Plaster Ceiling	None Detected
17429-JH-E5-02D	Level 5 - E Wing – Storage/Old OR Room	Plaster Ceiling	None Detected
17429-JH-E5-02E	Level 5 - E Wing – Conference Room	Plaster Ceiling	None Detected
17429-JH-E5-02F	Level 5 - E Wing – West Corridor	Plaster Ceiling	None Detected
17429-JH-E5-02G	Level 5 - E Wing – Southwest Corner Corridor	Plaster Ceiling	None Detected
17429-JH-E5-03A	Level 5 - E Wing – West Corridor	Ceiling Tile 11	None Detected
17429-JH-E5-03B	Level 5 - E Wing – West Corridor	Ceiling Tile 11	None Detected
17429-JH-E5-03C	Level 5 - E Wing – West Corridor	Ceiling Tile 11	None Detected

TABLE 1			
Summary of Bulk Samples			
17429-JH-E5-04A	Level 5 - E Wing - Stairwell	Rough Plaster Ceiling	None Detected
17429-JH-E5-04B	Level 5 - E Wing – Stairwell	Rough Plaster Ceiling	None Detected
17429-JH-E5-04C	Level 5 - E Wing - Stairwell	Rough Plaster Ceiling	None Detected
17429-JH-E5-04D	Level 5 - E Wing – Stairwell	Rough Plaster Ceiling	None Detected
17429-JH-E5-04E	Level 5 - E Wing - Stairwell	Rough Plaster Ceiling	None Detected
17429-JH-E5-04F	Level 5 - E Wing - Stairwell	Rough Plaster Ceiling	None Detected
17429-JH-E5-04G	Level 5 - E Wing - Stairwell	Rough Plaster Ceiling	None Detected
17429-JH-G0-01A	Level 0 – G Wing – Stairwell	Drywall Joint Compound Ceiling	None Detected
17429-JH-G0-01B	Level 0 – G Wing – Stairwell	Drywall Joint Compound Ceiling	None Detected
17429-JH-G0-01C	Level 0 – G Wing – Stairwell	Drywall Joint Compound Ceiling	None Detected
17429-JH-G0-02A	Level 0 – G Wing – Men’s Washroom	Plaster Ceiling	None Detected
17429-JH-G0-02B	Level 0 – G Wing – Women’s Washroom	Plaster Ceiling	None Detected
17429-JH-G0-02C	Level 0 – G Wing – Women’s Washroom	Plaster Ceiling	None Detected
17429-JH-G0-02D	Level 0 – G Wing – Men’s Washroom	Plaster Ceiling	None Detected
17429-JH-G0-02E	Level 0 – G Wing – Washroom Ceiling	Plaster Ceiling	None Detected
17429-JH-G0-02F	Level 0 – G Wing – Washroom Ceiling	Plaster Ceiling	None Detected
17429-JH-G0-02G	Level 0 – G Wing – Storage Room Ceiling	Plaster Ceiling	None Detected

TABLE 1			
Summary of Bulk Samples			
17429-JH-G0-03A	Level 0 - G Wing - Corridor	Ceiling Tile 9	None Detected
17429-JH-G0-03B	Level 0 - G Wing - Corridor	Ceiling Tile 9	None Detected
17429-JH-G0-03C	Level 0 - G Wing - Corridor	Ceiling Tile 9	None Detected
17429-JH-G0-04A	Level 0 - G Wing – Stairwell	Rough Plaster Ceiling	1% Chrysotile
17429-JH-G0-04B	Level 0 - G Wing – Stairwell	Rough Plaster Ceiling	1% Chrysotile
17429-JH-G0-04C	Level 0 - G Wing – Stairwell	Rough Plaster Ceiling	<0.25% Chrysotile
17429-JH-G1-01A	Level 1 - G Wing – Electrical Room	Drywall Joint Compound Ceiling	None Detected
17429-JH-G1-01B	Level 1 - G Wing – Storage Room	Drywall Joint Compound Ceiling	None Detected
17429-JH-G1-01C	Level 1 - G Wing - Corridor	Drywall Joint Compound Ceiling	None Detected
17429-JH-G1-01D	Level 1 - G Wing – Washroom	Drywall Joint Compound Ceiling	None Detected
17429-JH-G1-01E	Level 1 - G Wing – Janitor’s Closet	Drywall Joint Compound Ceiling	None Detected
17429-JH-G1-01F	Level 1 - G Wing –Men’s Washroom	Drywall Joint Compound Ceiling	None Detected
17429-JH-G1-01G	Level 1 - G Wing – Women’s Washroom	Drywall Joint Compound Ceiling	None Detected
17429-JH-G1-03A	Level 1 - G Wing – Corridor	Ceiling Tile 9	None Detected
17429-JH-G1-03B	Level 1 - G Wing – Corridor	Ceiling Tile 9	None Detected
17429-JH-G2-03C	Level 1 - G Wing – Corridor	Ceiling Tile 9	None Detected
17429-JH-G2-04D	Level 1 - G Wing – Stairwell	Rough Plaster Ceiling	1% Chrysotile
17429-JH-G2-04E	Level 1 - G Wing – Stairwell	Rough Plaster Ceiling	<0.25% Chrysotile
17429-JH-G2-01A	Level 1 - G Wing – Men’s Washroom	Drywall Joint Compound Ceiling	None Detected
17429-JH-G2-01B	Level 2 – G Wing – Corridor	Drywall Joint Compound Ceiling	None Detected

TABLE 1			
Summary of Bulk Samples			
17429-JH-G2-01C	Level 1 - G Wing – Housekeeping Closet	Drywall Joint Compound Ceiling	None Detected
17429-JH-G2-01D	Level 1 - G Wing – Women’s Washroom	Drywall Joint Compound Ceiling	None Detected
17429-JH-G2-01E	Level 2 - G Wing – IT Room	Drywall Joint Compound Ceiling	None Detected
17429-JH-G2-01F	Level 2 - G Wing – Storage Room	Drywall Joint Compound Ceiling	None Detected
17429-JH-G2-01G	Level 2 - G Wing – Corridor	Drywall Joint Compound Ceiling	None Detected
17429-JH-G2-03A	Level 2 - G Wing - Corridor	Ceiling Tile 9	None Detected
17429-JH-G2-03B	Level 2 - G Wing - Corridor	Ceiling Tile 9	None Detected
17429-JH-G2-03C	Level 2 - G Wing - Corridor	Ceiling Tile 9	None Detected
17429-JH-G2-04F	Level 2 - G Wing - Rm. 214 Printer Room	Rough Plaster Ceiling	1% Chrysotile
17429-JH-L0-01A	Level 0 - L Wing – Stairwell	Drywall Joint Compound Ceiling	None Detected
17429-JH-L0-01B	Level 0 - L Wing – Office	Drywall Joint Compound Ceiling	None Detected
17429-JH-L0-01C	Level 0 - L Wing – Office Washroom	Drywall Joint Compound Ceiling	None Detected
17429-JH-L0-01D	Level 0 - L Wing – Office	Drywall Joint Compound Ceiling	None Detected
17429-JH-L0-01E	Level 0 - L Wing – Hallway	Drywall Joint Compound Ceiling	None Detected
17429-JH-L0-01F	Level 0 - L Wing – Janitor’s Closet	Drywall Joint Compound Ceiling	Not Submitted - Insufficient Material
17429-JH-L0-01G	Level 0 - L Wing – Janitor’s Closet	Drywall Joint Compound Ceiling	None Detected
17429-JH-L1-01A	Level 1 - L Wing – Office	Drywall Joint Compound Ceiling	None Detected
17429-JH-L1-01B	Level 1 - L Wing – Office	Drywall Joint Compound Ceiling	None Detected
17429-JH-L1-01C	Level 1 - L Wing – Office Washroom	Drywall Joint Compound Ceiling	None Detected

TABLE 1			
Summary of Bulk Samples			
17429-JH-L1-01D	Level 1 - L Wing – Office Washroom	Drywall Joint Compound Ceiling	None Detected
17429-JH-L1-01E	Level 1 - L Wing – Janitor’s Closet	Drywall Joint Compound Ceiling	None Detected
17429-JH-L1-01F	Level 1 - L Wing – Ceiling at Door Accessing Wing	Drywall Joint Compound Ceiling	None Detected
17429-JH-L1-01G	Level 1 - L Wing - Office	Drywall Joint Compound Ceiling	None Detected
17429-JH-L2-01A	Level 2 - L Wing – Rm. 1189 Office Washroom	Drywall Joint Compound Ceiling	None Detected
17429-JH-L2-01B	Level 2 - L Wing – Rm. 1183 Office Washroom	Drywall Joint Compound Ceiling	None Detected
17429-JH-L2-01C	Level 2 - L Wing – Rm. 1187 Office Washroom	Drywall Joint Compound Ceiling	None Detected
17429-JH-L2-01D	Level 2 - L Wing – Janitor’s Closet	Drywall Joint Compound Ceiling	None Detected
17429-JH-L2-01E	Level 2 - L Wing – Ceiling at Entrance to Wing	Drywall Joint Compound Ceiling	None Detected
17429-JH-L2-01F	Level 2 - L Wing – Rm. 1186 Office Washroom	Drywall Joint Compound Ceiling	None Detected
17429-JH-L2-01G	Level 2 - L Wing – Rm. 1190 Office Washroom	Drywall Joint Compound Ceiling	None Detected
17429-JH-L3-01A	Level 3 - L Wing – Hallway	Drywall Joint Compound Ceiling	None Detected
17429-JH-L3-01B	Level 3 - L Wing – Hallway Washroom	Drywall Joint Compound Ceiling	None Detected
17429-JH-L3-01C	Level 3 - L Wing – Janitor’s Closet	Drywall Joint Compound Ceiling	None Detected
17429-JH-L3-01D	Level 3 - L Wing – Office	Drywall Joint Compound Ceiling	None Detected
17429-JH-L3-01E	Level 3 - L Wing – Hallway Washroom	Drywall Joint Compound Ceiling	None Detected
17429-JH-L3-01F	Level 3 - L Wing – Hallway	Drywall Joint Compound Ceiling	None Detected
17429-JH-L3-01G	Level 3 - L Wing - Hallway	Drywall Joint Compound Ceiling	None Detected
17429-JH-MB-02A	Basement - M Wing - Corridor	Plaster Ceiling	None Detected

TABLE 1			
Summary of Bulk Samples			
17429-JH-MB-02B	Basement - M Wing – Equipment Room	Plaster Ceiling	None Detected
17429-JH-MB-02C	Basement - M Wing – Equipment Room	Plaster Ceiling	None Detected
17429-JH-MB-02D	Basement - M Wing – Large Storage Room	Plaster Ceiling	None Detected
17429-JH-MB-02E	Basement - M Wing – Corridor	Plaster Ceiling	None Detected
17429-JH-MB-02F	Basement - M Wing – Stairwell	Plaster Ceiling	None Detected
17429-JH-MB-02G	Basement - M Wing – Corridor	Plaster Ceiling	None Detected
17429-JH-M0-2A	Level 0 - M Wing – Electrical Room	Plaster Ceiling	None Detected
17429-JH-M0-2B	Level 0 - M Wing – Stairwell	Plaster Ceiling	None Detected
17429-JH-M0-2C	Level 0 - M Wing – Stairwell	Plaster Ceiling	None Detected
17429-JH-M0-2D	Level 0 - M Wing – Electrical Room	Plaster Ceiling	None Detected
17429-JH-M0-2E	Level 0 - M Wing – Electrical Room	Plaster Ceiling	None Detected None Detected
17429-JH-M0-2F	Level 0 - M Wing – Electrical Room	Plaster Ceiling	None Detected
17429-JH-M0-2G	Level 0 - M Wing – Electrical Room	Plaster Ceiling	None Detected
17429-JH-M0-3A	Level 0 - M Wing – Corridor	Ceiling Tile 1 - 24" x 24" Fleck and Pinhole	None Detected
17429-JH-M0-3B	Level 0 - M Wing – Corridor	Ceiling Tile 1 - 24" x 24" Fleck and Pinhole	None Detected
17429-JH-M0-3C	Level 0 - M Wing – Corridor	Ceiling Tile 1 - 24" x 24" Fleck and Pinhole	None Detected
17429-JH-M1-02A	Level 1 - M Wing – Mechanical Room	Plaster Ceiling	None Detected
17429-JH-M1-02B	Level 1 - M Wing – Mechanical Room	Plaster Ceiling	None Detected

TABLE 1			
Summary of Bulk Samples			
17429-JH-M1-02C	Level 1 - M Wing – Corridor	Plaster Ceiling	None Detected
17429-JH-M1-02D	Level 1 - M Wing – Stairwell	Plaster Ceiling	None Detected
17429-JH-M1-02E	Level 1 - M Wing – Room 31	Plaster Ceiling	None Detected
17429-JH-M1-02F	Level 1 - M Wing – Corridor	Plaster Ceiling	None Detected
17429-JH-M1-02G	Level 1 - M Wing – Fitness Room	Plaster Ceiling	None Detected
17429-JH-M1-03A	Level 1 - M Wing – Corridor	Ceiling Tile 1 - 24” x 24” Fleck and Pinhole	None Detected
17429-JH-M1-03B	Level 1 - M Wing - Corridor	Ceiling Tile 1 - 24” x 24” Fleck and Pinhole	None Detected
17429-JH-M1-03C	Level 1 - M Wing – Corridor	Ceiling Tile 1 - 24” x 24” Fleck and Pinhole	None Detected
17429-JH-M2-02A	Level 2 - M Wing – Stairwell	Plaster Ceiling	None Detected
17429-JH-M2-02B	Level 2 - M Wing – Mechanical Room	Plaster Ceiling	None Detected
17429-JH-M2-02C	Level 2 - M Wing – Corridor (above drop ceiling)	Plaster Ceiling	None Detected
17429-JH-M2-02D	Level 2 - M Wing – Patient Activity Room	Plaster Ceiling	None Detected
17429-JH-M2-02E	Level 2 - M Wing – Storage Room	Plaster Ceiling	None Detected
17429-JH-M2-02F	Level 2 - M Wing – Corridor	Plaster Ceiling	None Detected
17429-JH-M2-02G	Level 2 - M Wing - Corridor	Plaster Ceiling	None Detected
17429-JH-M2-06A	Level 2 - M Wing – Corridor	Ceiling Tile 2 - 24” x 24” Small + Large Random Pinhole	None Detected

TABLE 1			
Summary of Bulk Samples			
17429-JH-M2-06B	Level 2 - M Wing – Corridor	Ceiling Tile 2 - 24” x 24” Small + Large Random Pinhole	None Detected
17429-JH-M2-06C	Level 2 - M Wing - Corridor	Ceiling Tile 2 - 24” x 24” Small + Large Random Pinhole	None Detected
17429-JH-M0-06A	Level 0 - M Wing - Corridor	Ceiling Tile 2 - 24” x 24” Small + Large Random Pinhole	None Detected
17429-JH-M0-06B	Level 0 - M Wing - Corridor	Ceiling Tile 2 - 24” x 24” Small + Large Random Pinhole	None Detected
17429-JH-M0-06C	Level 0 - M Wing – Corridor	Ceiling Tile 2 - 24” x 24” Small + Large Random Pinhole	None Detected
17429-JH-M3-02A	Level 3 - M Wing – Mechanical Room	Plaster Ceiling	None Detected
17429-JH-M3-02B	Level 3 - M Wing – Mechanical Room	Plaster Ceiling	None Detected
17429-JH-M3-02C	Level 3 - M Wing – Corridor (above drop ceiling)	Plaster Ceiling	None Detected
17429-JH-M3-02D	Level 3 - M Wing – Room 17	Plaster Ceiling	None Detected
17429-JH-M3-02E	Level 3 - M Wing - Linen Closet	Plaster Ceiling	None Detected
17429-JH-M3-02F	Level 3 - M Wing – Kitchenette	Plaster Ceiling	None Detected
17429-JH-M3-02G	Level 3 - M Wing – Stairwell	Plaster Ceiling	None Detected
17429-JH-M3-06A	Level 3 - M Wing – Corridor	Ceiling Tile 2 - 24” x 24” Small + Large Random Pinhole	None Detected
17429-JH-M3-06B	Level 3 - M Wing – Corridor	Ceiling Tile 2 - 24” x 24” Small + Large Random Pinhole	None Detected
17429-JH-M3-06C	Level 3 - M Wing - Corridor	Ceiling Tile 2 - 24” x 24” Small + Large Random Pinhole	None Detected

TABLE 1			
Summary of Bulk Samples			
17429-JH-M4-02A	Level 4 - M Wing – Mechanical Room	Plaster Ceiling	None Detected
17429-JH-M4-02B	Level 4 - M Wing – Corridor	Plaster Ceiling	None Detected
17429-JH-M4-02C	Level 4 - M Wing – Corridor	Plaster Ceiling	None Detected
17429-JH-M4-02D	Level 4 - M Wing – Corridor	Plaster Ceiling	None Detected
17429-JH-M4-02E	Level 4 - M Wing – Stairwell	Plaster Ceiling	None Detected
17429-JH-M4-02F	Level 4 - M Wing – Outside Room 42S	Plaster Ceiling	None Detected
17429-JH-M4-02G	Level 4 - M Wing – Outside Room 42S	Plaster Ceiling	None Detected
17429-JH-M5-02A	Level 5 – M Wing – Roof Access	Plaster Ceiling	None Detected
17429-JH-M5-02B	Level 5 – M Wing – Storage Room	Plaster Ceiling	None Detected
17429-JH-M5-02C	Level 5 – M Wing – Washroom	Plaster Ceiling	None Detected
17429-JH-M5-02D	Level 5 – M Wing – Washroom	Plaster Ceiling	None Detected
17429-JH-M5-02E	Level 5 – M Wing – Corridor (above drop ceiling)	Plaster Ceiling	None Detected
17429-JH-M5-02F	Level 5 – M Wing – Washroom	Plaster Ceiling	None Detected
17429-JH-M5-02G	Level 5 – M Wing – Janitor’s Closet	Plaster Ceiling	None Detected
17429-JH-M5-03A	Level 5 – M Wing – Corridor	Ceiling Tile 1 - 24” x 24” Fleck and Pinhole	None Detected
17429-JH-M5-03B	Level 5 – M Wing – Corridor	Ceiling Tile 1 - 24” x 24” Fleck and Pinhole	None Detected

TABLE 1			
Summary of Bulk Samples			
17429-JH-M5-03C	Level 5 – M Wing - Corridor	Ceiling Tile 1 - 24" x 24" Fleck and Pinhole	None Detected
17429-JH-F0-01A	Level 0 – F Wing – Bed 1	Drywall Joint Compound Ceiling	None Detected
17429-JH-F0-01B	Level 0 – F Wing – Room 10	Drywall Joint Compound Ceiling	None Detected
17429-JH-F0-01C	Level 0 – F Wing – Room 10	Drywall Joint Compound Ceiling	None Detected
17429-JH-F0-01D	Level 0 – F Wing – Lunchroom	Drywall Joint Compound Ceiling	None Detected
17429-JH-F0-01E	Level 0 – F Wing – Lunchroom	Drywall Joint Compound Ceiling	None Detected
17429-JH-F0-01F	Level 0 – F Wing – Corridor Radiology	Drywall Joint Compound Ceiling	None Detected
17429-JH-F0-01G	Level 0 – F Wing – Radiologist Room	Drywall Joint Compound Ceiling	None Detected
17429-JH-F0-06A	Level 0 – F Wing - Corridor	Ceiling Tile 2 - 24" x 24" Small + Large Random Pinhole	None Detected
17429-JH-F0-06B	Level 0 – F Wing – Corridor	Ceiling Tile 2 - 24" x 24" Small + Large Random Pinhole	None Detected
17429-JH-F0-06C	Level 0 – F Wing - Corridor	Ceiling Tile 2 - 24" x 24" Small + Large Random Pinhole	None Detected
17429-JH-F0-07A	Level 0 – F Wing – Emergency Shower	Ceiling Tile 3 – 24" x 48" Textured (Popcorn)	None Detected
17429-JH-F0-07B	Level 0 – F Wing – Emergency Shower	Ceiling Tile 3 – 24" x 48" Textured (Popcorn)	None Detected
17429-JH-F0-07C	Level 0 – F Wing – Outside Washroom	Ceiling Tile 3 – 24" x 48" Textured (Popcorn)	None Detected
17429-JH-F0-08A	Level 0 – F Wing	Ceiling Tile 4 – 24" x 24" Medium Pinhole	None Detected
17429-JH-F0-08B	Level 0 – F Wing	Ceiling Tile 4 – 24" x 24" Medium Pinhole	None Detected

TABLE 1			
Summary of Bulk Samples			
17429-JH-F0-08C	Level 0 – F Wing	Ceiling Tile 4 – 24” x 24” Medium Pinhole	None Detected
17429-JH-F1-01A	Level 1 – F Wing - Corridor	Ceiling Tile 5 – 24” x 24” Medium Pinhole and Flecks	None Detected
17429-JH-F1-01B	Level 1 – F Wing - Corridor	Ceiling Tile 5 – 24” x 24” Medium Pinhole and Flecks	None Detected
17429-JH-F1-01C	Level 1 – F Wing - Corridor	Ceiling Tile 5 – 24” x 24” Medium Pinhole and Flecks	None Detected
17429-JH-F1-02A	Level 1 – F Wing – Corridor	Ceiling Tile 2 - 24” x 24” Small + Large Random Pinhole	None Detected
17429-JH-F1-02B	Level 1 – F Wing – Corridor	Ceiling Tile 2 - 24” x 24” Small + Large Random Pinhole	None Detected
17429-JH-F1-02C	Level 1 – F Wing – Corridor	Ceiling Tile 2 - 24” x 24” Small + Large Random Pinhole	None Detected
17429-JH-F1-03A	Level 1 – F Wing – Room 104	Ceiling Tile 6 – 24” x 48” Textured Large and Medium Pinholes	None Detected
17429-JH-F1-03B	Level 1 – F Wing – Room 106	Ceiling Tile 6 – 24” x 48” Textured Large and Medium Pinholes	None Detected
17429-JH-F1-03C	Level 1 – F Wing – Room 109B	Ceiling Tile 6 – 24” x 48” Textured Large and Medium Pinholes	None Detected
17429-JH-F1-04A	Level 1 – F Wing – Lab	Ceiling Tile 7 – 24” x 48” Texture with Small Pinholes	None Detected
17429-JH-F1-04B	Level 1 – F Wing – Lab	Ceiling Tile 7 – 24” x 48” Texture with Small Pinholes	None Detected
17429-JH-F1-04C	Level 1 – F Wing - Lab	Ceiling Tile 7 – 24” x 48” Texture with Small Pinholes	None Detected
17429-JH-F1-05A	Level 1 – F Wing – Room 116	Drywall Joint Compound Ceiling	None Detected

TABLE 1			
Summary of Bulk Samples			
17429-JH-F1-05B	Level 1 – F Wing – Room 116	Drywall Joint Compound Ceiling	None Detected
17429-JH-F1-05C	Level 1 – F Wing – Room 116	Drywall Joint Compound Ceiling	None Detected
17429-JH-F2-01A	Level 2 – F Wing – Corridor	Ceiling Tile 1 - 24" x 24" Fleck and Pinhole	None Detected
17429-JH-F2-01B	Level 2 – F Wing – Corridor	Ceiling Tile 1 - 24" x 24" Fleck and Pinhole	None Detected
17429-JH-F2-01C	Level 2 – F Wing - Corridor	Ceiling Tile 1 - 24" x 24" Fleck and Pinhole	None Detected
17429-JH-F2-02A	Level 2 – F Wing - Corridor	Ceiling Tile 2 - 24" x 24" Small + Large Random Pinhole	None Detected
17429-JH-F2-02B	Level 2 – F Wing - Corridor	Ceiling Tile 2 - 24" x 24" Small + Large Random Pinhole	None Detected
17429-JH-F2-02C	Level 2 – F Wing - Corridor	Ceiling Tile 2 - 24" x 24" Small + Large Random Pinhole	None Detected
17429-JH-F2-03A	Level 2 – F Wing – Room 491	Drywall Joint Compound Ceiling	None Detected
17429-JH-F2-03B	Level 2 – F Wing – Lab Office	Drywall Joint Compound Ceiling	None Detected
17429-JH-F2-03C	Level 2 – F Wing – Lab Office	Drywall Joint Compound Ceiling	None Detected
17429-JH-F2-03D	Level 2 – F Wing – Staffroom	Drywall Joint Compound Ceiling	None Detected
17429-JH-F2-03E	Level 2 – F Wing – Room 483	Drywall Joint Compound Ceiling	None Detected
17429-JH-F2-03F	Level 2 – F Wing – Lab Area	Drywall Joint Compound Ceiling	None Detected
17429-JH-F2-03G	Level 2 – F Wing – Lab Area	Drywall Joint Compound Ceiling	None Detected
17429-JH-F2-04A	Level 2 – F Wing – Storage Room	Plaster Ceiling – Skim Coat	None Detected

TABLE 1 Summary of Bulk Samples			
		Plaster Ceiling – Rough Coat	None Detected
17429-JH-F2-04B	Level 2 – F Wing – Lab Area	Plaster Ceiling – Skim Coat	None Detected
		Plaster Ceiling – Rough Coat	None Detected
17429-JH-F2-04C	Level 2 – F Wing – Lab Area	Plaster Ceiling – Skim Coat	None Detected
		Plaster Ceiling – Rough Coat	None Detected
17429-JH-F2-04D	Level 2 – F Wing – Lab Area	Plaster Ceiling – Skim Coat	None Detected
		Plaster Ceiling – Rough Coat	None Detected
17429-JH-F2-04E	Level 2 – F Wing – Lab Area	Plaster Ceiling – Skim Coat	None Detected
		Plaster Ceiling – Rough Coat	None Detected
17429-JH-F2-04F	Level 2 – F Wing – Lab Area -	Plaster Ceiling – Skim Coat	None Detected
		Plaster Ceiling – Rough Coat	None Detected
17429-JH-F2-04G	Level 2 – F Wing – Lab Area	Plaster Ceiling – Skim Coat	None Detected
		Plaster Ceiling – Rough Coat	1% Chrysotile
17429-JH-F3-01A	Level 3 – F Wing – Washroom	Drywall Joint Compound Ceiling	None Detected
17429-JH-F3-01B	Level 3 – F Wing – Room 346	Drywall Joint Compound Ceiling	None Detected
17429-JH-F3-01C	Level 3 – F Wing – Linen Room	Drywall Joint Compound Ceiling	None Detected
17429-JH-F3-01D	Level 3 – F Wing – Storage Room	Drywall Joint Compound Ceiling	Not Submitted
17429-JH-F3-01E	Level 3 – F Wing – Storage Room	Drywall Joint Compound Ceiling	None Detected
17429-JH-F3-01F	Level 3 – F Wing - Corridor	Drywall Joint Compound Ceiling	None Detected

TABLE 1			
Summary of Bulk Samples			
17429-JH-F3-01G	Level 3 – F Wing - Corridor	Drywall Joint Compound Ceiling	None Detected
17429-JH-F3-02A	Level 3 – F Wing – Corridor	Plaster Ceiling – Skim Coat	None Detected
		Plaster Ceiling – Rough Coat	1% Chrysotile
17429-JH-F3-02B	Level 3 – F Wing – Room 344	Plaster Ceiling – Skim Coat	None Detected
		Plaster Ceiling – Rough Coat	None Detected
17429-JH-F3-02C	Level 3 – F Wing – Corridor	Plaster Ceiling – Skim Coat	None Detected
		Plaster Ceiling – Rough Coat	None Detected
17429-JH-F3-02D	Level 3 – F Wing – room 341	Plaster Ceiling – Skim Coat	None Detected
		Plaster Ceiling – Rough Coat	None Detected
17429-JH-F3-02E	Level 3 – F Wing – Room 338	Plaster Ceiling – Skim Coat	None Detected
		Plaster Ceiling – Rough Coat	1% Chrysotile
17429-JH-F3-02F	Level 3 – F Wing – Room 338	Plaster Ceiling – Skim Coat	None Detected
		Plaster Ceiling – Rough Coat	None Detected
17429-JH-F3-02G	Level 3 – F Wing – Room 301	Plaster Ceiling – Skim Coat	None Detected
		Plaster Ceiling – Rough Coat	None Detected
17429-JH-F3-03A	Level 3 – F Wing - Corridor	Ceiling Tile 1 - 24” x 24” Fleck and Pinhole	None Detected
17429-JH-F3-03B	Level 3 – F Wing – Corridor	Ceiling Tile 1 - 24” x 24” Fleck and Pinhole	None Detected
17429-JH-F3-03C	Level 3 – F Wing - Corridor	Ceiling Tile 1 - 24” x 24” Fleck and Pinhole	None Detected
17429-JH-F4-01A	Level 4 – F Wing – Electrical Room	Plaster Ceiling – Skim Coat	None Detected

TABLE 1			
Summary of Bulk Samples			
		Plaster Ceiling – Rough Coat	None Detected
17429-JH-F4-01B	Level 4 – F Wing – Electrical Room	Plaster Ceiling – Skim Coat	None Detected
17429-JH-F4-01C	Level 4 – F Wing – Cleaner’s Closet	Plaster Ceiling – Skim Coat	None Detected
		Plaster Ceiling – Rough Coat	None Detected
17429-JH-F4-01D	Level 4 – F Wing - Washroom	Plaster Ceiling (Inseparable Layers)	None Detected
17429-JH-F4-01E	Level 4 – F Wing – Linen Room	Plaster Ceiling – Skim Coat	None Detected
		Plaster Ceiling – Rough Coat	None Detected
17429-JH-F4-01F	Level 4 – F Wing - Kitchenette	Plaster Ceiling – Skim Coat	None Detected
		Plaster Ceiling – Rough Coat	None Detected
17429-JH-F4-01G	Level 4 – F Wing - Washroom	Plaster Ceiling – Skim Coat	None Detected
		Plaster Ceiling – Rough Coat	None Detected
17429-JH-F4-03A	Level 4 – F Wing – Corridor	Ceiling Tile 1 - 24” x 24” Fleck and Pinhole	None Detected
17429-JH-F4-03B	Level 4 – F Wing – Corridor	Ceiling Tile 1 - 24” x 24” Fleck and Pinhole	None Detected
17429-JH-F4-03C	Level 4 – F Wing – Corridor	Ceiling Tile 1 - 24” x 24” Fleck and Pinhole	None Detected
17429-JH-F4-04A	Level 4 – F Wing – Corridor	Ceiling Tile 2 - 24” x 24” Small + Large Random Pinhole	None Detected
17429-JH-F4-04B	Level 4 – F Wing – Corridor	Ceiling Tile 2 - 24” x 24” Small + Large Random Pinhole	None Detected
17429-JH-F4-04C	Level 4 – F Wing – Corridor	Ceiling Tile 2 - 24” x 24” Small + Large Random Pinhole	None Detected

TABLE 1 Summary of Bulk Samples			
17429-JH-F5-01A	Level 5 – F Wing – Electrical Room	Drywall Joint Compound Ceiling	None Detected
17429-JH-F5-01B	Level 5 – F Wing – Electrical Room	Drywall Joint Compound Ceiling	None Detected
17429-JH-F5-01C	Level 5 – F Wing – Washroom	Drywall Joint Compound Ceiling	None Detected
17429-JH-F5-01D	Level 5 – F Wing – Washroom	Drywall Joint Compound Ceiling	None Detected
17429-JH-F5-01E	Level 5 – F Wing – Washroom	Drywall Joint Compound Ceiling	Not Submitted
17429-JH-F5-01F	Level 5 – F Wing – Kitchenette	Drywall Joint Compound Ceiling	None Detected
17429-JH-F5-01G	Level 5 – F Wing – Washroom	Drywall Joint Compound Ceiling	None Detected
17429-JH-F5-02A	Level 5 – F Wing – Electrical Room	Plaster Ceiling – Skim Coat	None Detected
		Plaster Ceiling – Rough Coat	None Detected
17429-JH-F5-02B	Level 5 – F Wing – Electrical Room	Plaster Ceiling (Inseparable Layers)	None Detected
17429-JH-F5-02C	Level 5 – F Wing – Washroom	Plaster Ceiling	None Detected
17429-JH-F5-02D	Level 5 – F Wing – Kitchenette	Plaster Ceiling (Inseparable Layers)	None Detected
17429-JH-F5-02E	Level 5 – F Wing – Linen Room	Plaster Ceiling (Inseparable Layers)	<1% Chrysotile
17429-JH-F5-02F	Level 5 – F Wing – Linen Room	Plaster Ceiling	None Detected
17429-JH-F5-02G	Level 5 – F Wing – Corridor	Plaster Ceiling – Skim Coat	None Detected
		Plaster Ceiling – Rough Coat	1% Chrysotile
17429-JH-F5-03A	Level 5 – F Wing – Corridor	Ceiling Tile 13 - 24" x 24" Random Pinhole Pattern	None Detected
17429-JH-F5-03B	Level 5 – F Wing – Corridor	Ceiling Tile 13 - 24" x 24" Random Pinhole Pattern	None Detected

TABLE 1			
Summary of Bulk Samples			
17429-JH-F5-03C	Level 5 – F Wing - Corridor	Ceiling Tile 13 - 24” x 24” Random Pinhole Pattern	None Detected
17429-JH-FSW1-01A	Level 2 – F Wing – South Stairwell	Rough Plaster Ceiling	None Detected
17429-JH-FSW1-01B	Level 3 – F Wing – South Stairwell	Rough Plaster Ceiling	None Detected
17429-JH-FSW1-01C	Level 3 – F Wing – South Stairwell	Rough Plaster Ceiling	None Detected
17429-JH-FSW1-01D	Level 4 – F Wing – South Stairwell	Rough Plaster Ceiling	None Detected
17429-JH-FSW1-01E	Level 4 – F Wing – South Stairwell	Rough Plaster Ceiling	None Detected
17429-JH-FSW1-01F	Level 1 – F Wing – South Stairwell	Rough Plaster Ceiling	1% Chrysotile
17429-JH-FSW1-01G	Level 0 – F Wing – South Stairwell	Rough Plaster Ceiling	1% Chrysotile
17429-JH-FSW2-02A	Level 1 – F Wing – North Stairwell	Rough Plaster Ceiling	None Detected
17429-JH-FSW2-02B	Level 1 – F Wing – North Stairwell	Rough Plaster Ceiling	None Detected
17429-JH-FSW2-02C	Level 2 – F Wing – North Stairwell	Rough Plaster Ceiling	None Detected
17429-JH-FSW2-02D	Level 3 – F Wing – North Stairwell	Rough Plaster Ceiling	None Detected
17429-JH-FSW2-02E	Level 4 – F Wing – North Stairwell	Rough Plaster Ceiling	1% Chrysotile
17429-JH-FSW2-02F	Level 5 – F Wing – North Stairwell	Rough Plaster Ceiling	1% Chrysotile
17429-JH-FSW2-02G	Roof Access – F Wing – North Stairwell	Rough Plaster Ceiling	1% Chrysotile
	- sample result positive for asbestos (if applicable)		

Observations and Findings:

The areas of investigation included primary ceiling finishes (drywall joint compound and plaster) and acoustic ceiling tiles throughout the E, F, G, L and M-Wings of the JHCC. General site conditions, bulk sampling and asbestos-related information consist of the following:

1. Plaster, drywall joint compound applied to gypsum board (drywall) “primary” ceilings (i.e. ceilings that are exposed and accessible without demolition) and acoustic ceiling tiles were collected to supplement previous sampling, as follows:

E-Wing (90 Wing North)

- i. A total of thirty-five (35) samples of plaster (ceiling), three-to-seven (3-7) samples per level, were collected from various locations throughout the E-Wing (samples 17429-JH-E1-02A through 17429-JH-E1-02G, 17429-JH-E2-02A through 17429-JH-E2G, 17429-JH-E3-02A through 17429-JH-E3G, 17429-JH-E4-02A through 17429-JH-E4G, and 17429-JH-E5-02A through 17429-JH-E5G). Laboratory analysis determined this material does not contain asbestos.
- ii. A total of twelve (12) samples of Drywall Joint Compound (ceiling), three-to-seven (3-7) samples per level, were collected from various locations throughout the E-Wing (samples 17429-JH-E1-01A through 17429-JH-E1G, 17429-JH-E5-01A through 17429-JH-E5-01E). Laboratory analysis determined this material does not contain asbestos.
- iii. A total of eighteen (18) samples of 4 distinct types of acoustic ceiling tile, three (3) samples per distinct tile, we collected from various locations throughout the E-Wing (samples 17429-JH-E1-03A through 17429-JH-E1C, 17429-JH-E2-03A through 17429-JH-E2C, 17429-JH-E3-03A through 17429-JH-E3C, 17429-JH-E3-05A through 17429-JH-E3-05C, 17429-JH-E4-03A through 17429-JH-E4-03C, and 17429-JH-E5-03A through 17429-JH-E5-03C). Laboratory analysis determined this material does not contain asbestos.
- iv. Rough Plaster is present as ceiling finish within the stairwells. A total of seven (7) samples, were collected from various locations throughout the stairwell (samples 17429-JH-E5-04A through 17429-JH-E5-04G). Laboratory analysis determined this material does not contain asbestos.

F-Wing (90 Wing South)

- i. Asbestos-containing plaster was identified as wall and ceiling finishes within the F-Wing Level 0 during an assessment conducted by Safetech Environmental Ltd. in January 2013.

- ii. A total of twenty-eight (28) samples of plaster (ceiling), three-seven (3-7) samples per level, were collected from various locations throughout the F-Wing (samples 17429-JH-F2-02A through 17429-JH-F2-02G, 17429-JH-F3-02A through 17429-JH-F3-02G, 17429-JH-F4-01A through 17429-JH-F4-01G, and 17429-JH-F5-02A through 17429-JH-F5-02G). Laboratory analysis identified asbestos-content (<0.25% - 1% Chrysotile) in the rough plaster layer of five (5) samples (17429-JH-F2-04G, 17429-JH-F3-02A, 17429-JH-F3-02E, 17429-JH-F5-02C, and 17429-JH-F5-02E).
- iii. A total of thirty-one (31) samples of drywall joint compound (ceiling) were collected from various locations the F-Wing (samples 17429-JH-F0-01A through 17429-JH-F0-01G, 17429-JH-F1-05A through 17429-JH-F1-05C, 17429-JH-F2-03A through 17429-JH-F2-03G, 17429-JH-F3-01A through 17429-JH-F3-01C, and 17429-JH-F5-01A through 17429-JH-F5-01G). Laboratory analysis determined this material does not contain asbestos.
- iv. A total of twenty-seven (27) samples of 7 distinct types of acoustic ceiling tile, three (3) samples per distinct tile, we collected from various locations throughout the E-Wing (samples 17429-JH-F0-06A through 17429-JH-F0-06C, 17429-JH-F0-07A through 17429-JH-F0-07C, 17429-JH-F0-08A through 17429-JH-F0-08C, 17429-JH-F1-01A through 17429-JH-F1-01C, 17429-JH-F1-02A through 17429-JH-F1-02C, 17429-JH-F1-03A through 17429-JH-F1-03C, 17429-JH-F1-04A through 17429-JH-F1-04C, 17429-JH-F2-01A through 17429-JH-F2-01C, 17429-JH-F2-02A through 17429-JH-F2-02C, 17429-JH-F3-03A through 17429-JH-F3-03C, 17429-JH-F4-03A through 17429-JH-F4-03C, 17429-JH-F4-04A through 17429-JH-F4-04C, 17429-JH-F4-04A through 17429-JH-F4-04C, and 17429-JH-F5-03A through 17429-JH-F5-03C). Laboratory analysis determined this material does not contain asbestos.
- v. Rough Plaster is present as ceiling finish within the North and South stairwells. A total of fourteen (14) samples, were collected from various locations throughout the stairwells (samples 17429-JH-FSW1-01A through 17429-JH-FSW1-01G, and 17429-JH-FSW2-02A through 17429-JH-FSW2-02G). Laboratory analysis identified asbestos-content (1% Chrysotile) in the rough plaster layer of five (5) samples (17429-JH-FSW1-01F, 17429-JH-FSW1-01G, 17429-JH-FSW2-02E, 17429-JH-FSW2-02F, and 17429-JH-FSW2-02G).

G-Wing (60 Wing)

- i. Trace amounts of Chrysotile asbestos (i.e. less than the regulatory threshold of 0.5% or greater for an ACM) was detected in multiple bulk samples of

- plaster (wall and ceiling) sampled during the 2008 reassessment survey of the property.
- ii. A total of seven (7) samples of plaster (ceiling) were collected from various locations throughout Level 0 of the G-Wing (samples 17429-JH-G0-02A-17429-JH-G0-02G). Laboratory analysis determined this material does not contain asbestos.
 - iii. A total of seventeen (17) samples of drywall joint compound (ceiling), five-to-seven (3-7) samples per level, were collected from various locations throughout the G-Wing (samples 17429-JH-G0-01A through 17429-JH-G0-01C, 17429-JH-G1-01A through 17429-JH-G1-01G, and 17429-JH-G2-01A through 17429-JH-G2-01G). Laboratory analysis determined this material does not contain asbestos.
 - iv. A total of nine (9) samples of 1 distinct type of acoustic ceiling tile, three (3-9) samples per distinct tile, were collected from various locations throughout the G-Wing (samples 17429-JH-G0-03A through 17429-JH-G0-03C, 17429-JH-G1-03A through 17429-JH-G1-03C, and 17429-JH-G2-03A through 17429-JH-G2-03C). Laboratory analysis determined this material does not contain asbestos.
 - v. Rough Plaster is present as ceiling finish within the East stairwell. A total of seven (7) samples, were collected from various locations throughout the stairwell (samples 17429-JH-G0-04A through 17429-JH-G0-04C, 17429-JH-G2-04D, 17429-JH-G2-04E, 17429-JH-G2-04F, and 17429-JH-G2-04G). Laboratory analysis identified asbestos-content (0.25% - 1% Chrysotile) in the rough plaster layer of (6) samples (17429-JH-G0-04A through 17429-JH-G0-04F).

L-Wing (30 Wing)

- i. Trace amounts of Chrysotile asbestos (i.e. less than the regulatory threshold of 0.5% or greater for an ACM) was detected in bulk sample(s) of drywall joint compound (wall and ceiling) sampled during the 2008 reassessment survey of the property
- ii. A total of twenty-eight (28) samples of drywall joint compound (ceiling, and bulkhead), seven (7) samples per level, were collected from various locations throughout the L-Wing (samples 17429-JH-L0-01A through 17429-JH-L0-01G, 17429-JH-L1-01A through 17429-JH-L1-01G, 17429-JH-L2-01A through 17429-JH-L2-01G, and 17429-JH-L3-01A through 17429-JH-L3-01G). Laboratory analysis determined this material does not contain asbestos.

M-Wing (40 Wing)

- i. A total of forty-nine (49) samples of plaster (ceiling), seven (7) samples per level, were collected from various locations throughout the M-Wing (samples 17429-JH-MB-02A through 17429-JH-MB-02G, 17429-JH-M0-02A through 17429-JH-M0-02G, 17429-JH-M1-02A through 17429-JH-M1-02G, 17429-JH-M2-02A through 17429-JH-M2-02G, 17429-JH-M3-02A through 17429-JH-M3-02G, 17429-JH-M4-02A through 17429-JH-M4-02G, and 17429-JH-M5-02A through 17429-JH-M5-02G). Laboratory analysis determined this material does not contain asbestos.
- ii. A total of eighteen (18) samples of 2 distinct types of acoustic ceiling tile, three (9) samples per distinct tile, were collected from various locations throughout the M-Wing (samples 17429-JH-M0-03A through 17429-JH-M0-03C, 17429-JH-M0-06A through 17429-JH-M0-06C, 17429-JH-M1-03A through 17429-JH-M1-03C, 17429-JH-M2-06A through 17429-JH-M2-06C, 17429-JH-M3-06A through 17429-JH-M3-06C, and 17429-JH-M5-03A through 17429-JH-M5-03C). Laboratory analysis determined this material does not contain asbestos.

Discussion of Results and Recommendations:

Based on the analytical results and on-site observations, ECOH offers the following recommendations for your consideration. The recommendations meet requirements of Designated Substance – Regulation respecting Asbestos on Construction Projects and in Buildings and Repair Operations, Ontario Regulation 278/05.

- As asbestos-containing materials are confirmed and/or assumed to be present within the facility, the policies and procedures as outlined in the Asbestos Management Program (AMP) should continue to be implemented. Reassessment of the condition of ACM should be conducted by a knowledgeable person annually (at a minimum).
- Plaster (ceilings) throughout all levels (Level 0 through Level 5) of the F-Wing (90 Wing South) are assumed to be asbestos-containing (Chrysotile asbestos).
- Rough Plaster (ceilings) throughout the East G-Wing Stairwell, and North and South F-Wing Stairwells are assumed to be asbestos-containing (Chrysotile asbestos).
- Materials previously identified to contain “trace” concentrations of asbestos (i.e. less than the regulatory threshold of 0.5% or greater for an asbestos-containing material) can be assumed to be non-asbestos for management purposes. However, additional sampling and investigation should be undertaken prior to work to supplement previous sampling and to confirm asbestos-content of these materials.

- Prior to renovations, maintenance work or building demolition, consideration should be given to sampling materials that may not have been previously sampled. Also, additional sampling and investigation may be required prior to renovations, maintenance work or building demolition to ensure that concealed conditions are assessed and project-specific requirements for asbestos sampling are in compliance with Section 30 of the Ontario Occupational Health and Safety Act (OHSA) and Ontario Regulation 278/05. As an alternative to sampling, suspect materials they may be assumed to contain asbestos.
- Removal or disturbance of materials confirmed to be non-asbestos does not require asbestos safety precautions but should employ general health and safety precautions that may include dust suppression methods.
- Workers who are likely to disturb the materials listed above must be informed that such materials may contain asbestos and that asbestos precautions may be required. Removal of known or assumed ACM must be conducted in accordance with all applicable regulations and the Asbestos Management Plan (AMP).

Please refer to the accompanying Certificates of Analysis from EMSL Scientific Inc. Laboratory to confirm the above-noted analytical results and for further details regarding the composition of the sample(s). For your records, the Chain of Custody and Certificate of Analysis for all sampling are attached.

Limitations:

The observations, results and conclusions drawn by ECOH Management Inc. (ECOH) are limited to the specific scope of work for which ECOH was retained, and are based solely on information generated as a result of the specific scope of work authorized by the Client. Only those items that are capable of being observed, and are reasonably obvious to ECOH personnel or have been identified to ECOH by other parties, can be reported. ECOH has exercised a degree of thoroughness and competence that is consistent with the profession during the execution of this assessment. ECOH considers the opinions and information as they are presented in this report to be factual at the time of the assessment. The conclusions are limited to the specific locations of where testing and/or observations were completed during the course of the assessment.

It is important to note that work was completed with the utmost care and our extensive expertise in carrying out assessments. ECOH believes that the information collected during the assessment concerning the Project Area is reliable. No other warranties are implied or expressed. ECOH, to the best of its knowledge, believes this report to be accurate, however, ECOH cannot guarantee the completeness or accuracy of information supplied to ECOH by third parties.

ECOH is an Environmental Consulting Company and as such any results or conclusions presented in this report should not be construed as legal advice. The material in this report reflects ECOH's professional interpretation of information available at the time of report preparation. Any use

which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. ECOH accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report. Should additional information become available that suggests other environmental issues of concern beyond that described in this report, ECOH Management Inc. retains the right to review this information and modify conclusions and recommendations presented in this report accordingly.

Should you have any questions, please do not hesitate to contact us at (905) 795-2800.

Sincerely,

ECOH
Environmental Consulting
Occupational Health

Prepared By:



Brittanie Semper B.E.S.
Environmental Scientist

Reviewed By:



Brian Edwardson, M.S., B.Sc.(Env.)
Senior Project Manager

Attachment 1: Certificate of Analysis
Attachment 2: Drawings – Asbestos Bulk Sample Locations
Attachment 3: Ceiling Tile Index

APPENDIX 1

CERTIFICATES OF ANALYSIS



EMSL Canada Inc.

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Customer PO: 17429

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Received Date: 04/12/2017 5:00 PM

Analysis Date: 04/19/2017

Collected Date: 03/28/2017

Project: 17429 - JH - JURAVINSKI HOSPITAL E WING

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17429-JH-E1 01A <small>551703986-0001</small>	DJC STAFFROOM WASHROOM	White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
17429-JH-E1 01B <small>551703986-0002</small> <i>Inseparable paint / coating layer included in analysis</i>	DJC STAFFROOM WASHROOM	White Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
17429-JH-E1 01C <small>551703986-0003</small>	DJC STAFFROOM WASHROOM	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-E1 01D <small>551703986-0004</small>	DJC STAFFROOM WASHROOM	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-E1 01E <small>551703986-0005</small>	DJC IT ROOM	White Non-Fibrous Homogeneous		2% Ca Carbonate 2% Mica 96% Non-fibrous (Other)	None Detected
17429-JH-E1 01F <small>551703986-0006</small>	DJC IT ROOM	White Non-Fibrous Homogeneous		2% Ca Carbonate 2% Mica 96% Non-fibrous (Other)	None Detected
17429-JH-E1 01G <small>551703986-0007</small>	DJC IT ROOM	White Non-Fibrous Homogeneous	<1% Cellulose	2% Ca Carbonate 2% Mica 96% Non-fibrous (Other)	None Detected
17429-JH-E1 02A <small>551703986-0008</small>	PLASTER STAFF WASHROOM	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-E1 02B <small>551703986-0009</small> <i>Inseparable Layers</i>	PLASTER CORRIDOR	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-E1 02C <small>551703986-0010</small>	PLASTER CORRIDOR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-E1 02D <small>551703986-0011</small>	PLASTER WASHROOM	Gray/White Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
17429-JH-E1 02E <small>551703986-0012</small> <i>Coats inseparable</i>	PLASTER CORRIDOR	Gray/White Non-Fibrous Heterogeneous		4% Quartz 2% Ca Carbonate 94% Non-fibrous (Other)	None Detected
17429-JH-E1 02F <small>551703986-0013</small>	PLASTER CORRIDOR	White Non-Fibrous Homogeneous		<1% Ca Carbonate 100% Non-fibrous (Other)	None Detected
17429-JH-E1 02G <small>551703986-0014</small>	PLASTER CORRIDOR	White Non-Fibrous Homogeneous		<1% Quartz <1% Ca Carbonate 100% Non-fibrous (Other)	None Detected
17429-JH-E1 03A <small>551703986-0015</small>	CT IT ROOM	Gray Fibrous Homogeneous	30% Cellulose 30% Min. Wool	30% Perlite 10% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17429-JH-E1 03B <small>551703986-0016</small>	CT IT ROOM	Gray Fibrous Homogeneous	30% Cellulose 30% Min. Wool	30% Perlite 10% Non-fibrous (Other)	None Detected
17429-JH- E1 03C <small>551703986-0017</small>	CT IT ROOM	Tan Fibrous Homogeneous	60% Cellulose 5% Min. Wool	20% Perlite 15% Non-fibrous (Other)	None Detected
17429-JH-E2 02A <small>551703986-0018</small>	PLASTER VISITORS WASHROOM	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-E2 02B <small>551703986-0019</small> <i>Inseparable Layers</i>	PLASTER KITCHEN	Gray/White Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
17429-JH-E2 02C <small>551703986-0020</small>	PLASTER STAFF WASHROOM	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-E2 02D <small>551703986-0021</small>	PLASTER STORAGE	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-E2 02E <small>551703986-0022</small>	PLASTER CORRIDOR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-E2 02F <small>551703986-0023</small>	PLASTER WASHROOM	White Non-Fibrous Homogeneous		<1% Ca Carbonate 100% Non-fibrous (Other)	None Detected
17429-JH-E2 02G <small>551703986-0024</small>	PLASTER CORRIDOR	White Non-Fibrous Homogeneous		<1% Ca Carbonate 100% Non-fibrous (Other)	None Detected
17429-JH-E2 03A <small>551703986-0025</small>	CT CORRIDOR	Gray Fibrous Homogeneous	35% Cellulose 20% Min. Wool	40% Perlite 5% Non-fibrous (Other)	None Detected
17429-JH-E2 03B <small>551703986-0026</small>	CT CORRIDOR	Gray Fibrous Homogeneous	35% Cellulose 20% Min. Wool	40% Perlite 5% Non-fibrous (Other)	None Detected
17429-JH-E2 03C <small>551703986-0027</small>	CT CORRIDOR	Gray Fibrous Homogeneous	65% Cellulose 5% Min. Wool	20% Perlite 10% Non-fibrous (Other)	None Detected
17429-JH-E3 02A <small>551703986-0028</small>	PLASTER STAFF WASHROOM	White Non-Fibrous Homogeneous		<1% Ca Carbonate 100% Non-fibrous (Other)	None Detected
17429-JH-E3 02B <small>551703986-0029</small>	PLASTER KITCHEN	White Non-Fibrous Homogeneous		<1% Ca Carbonate <1% Mica 100% Non-fibrous (Other)	None Detected
17429-JH-E3 02C <small>551703986-0030</small>	PLASTER LINEN STORAGE	White Non-Fibrous Homogeneous		<1% Ca Carbonate 100% Non-fibrous (Other)	None Detected
17429-JH-E3 02D <small>551703986-0031</small>	PLASTER EAST CORRIDOR NURSE STATION	White Non-Fibrous Homogeneous		<1% Ca Carbonate 100% Non-fibrous (Other)	None Detected
17429-JH-E3 02E <small>551703986-0032</small> <i>Inseparable Layers</i>	PLASTER SOILED LINEN ROOM	Gray/White Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-E3 02F <small>551703986-0033</small>	PLASTER EAST CORRIDOR NE END	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17429-JH-E3 02G <small>551703986-0034</small>	PLASTER WEST CORRIDOR OUTSIDE ALLIED HEALTH OFFICE	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-E3 03A <small>551703986-0035</small>	CT EAST CORRIDOR NURSES STATION	Tan Fibrous Homogeneous	50% Cellulose 20% Min. Wool	20% Perlite 10% Non-fibrous (Other)	None Detected
17429-JH-E3 03B <small>551703986-0036</small>	CT EAST CORRIDOR NURSES STATION	Tan Fibrous Homogeneous	40% Cellulose 25% Min. Wool	25% Perlite 10% Non-fibrous (Other)	None Detected
17429-JH-E3 03C <small>551703986-0037</small>	CT EAST CORRIDOR NURSES STATION	Gray Fibrous Homogeneous	40% Cellulose 20% Min. Wool	35% Perlite 5% Non-fibrous (Other)	None Detected
17429-JH-E3 05A <small>551703986-0038</small>	CT PHYSICAN AND RESIDENTS OFFICE	White Fibrous Homogeneous	<1% Cellulose 60% Min. Wool	30% Perlite 10% Non-fibrous (Other)	None Detected
17429-JH-E3 05B <small>551703986-0039</small>	CT PHYSICAN AND RESIDENTS OFFICE	White Fibrous Homogeneous	<1% Cellulose 60% Min. Wool	30% Perlite 10% Non-fibrous (Other)	None Detected
17429-JH-E3 05C <small>551703986-0040</small>	CT PHYSICAN AND RESIDENTS OFFICE	Gray Fibrous Homogeneous	70% Min. Wool	25% Perlite 5% Non-fibrous (Other)	None Detected
17429-JH-E4 02A <small>551703986-0041</small>	PLASTER STAFF WASHROOM	White Non-Fibrous Homogeneous		<1% Ca Carbonate 100% Non-fibrous (Other)	None Detected
17429-JH-E4 02B <small>551703986-0042</small>	PLASTER SOILED LINEN ROOM	White Non-Fibrous Homogeneous		<1% Ca Carbonate 100% Non-fibrous (Other)	None Detected
17429-JH-E4 02C <small>551703986-0043</small>	PLASTER EQUIPMENT ROOM	White Non-Fibrous Homogeneous		<1% Ca Carbonate 100% Non-fibrous (Other)	None Detected
17429-JH-E4 02D <small>551703986-0044</small>	PLASTER SUPPLY ROOM	White Non-Fibrous Homogeneous	<1% Cellulose	<1% Ca Carbonate 100% Non-fibrous (Other)	None Detected
17429-JH-E4 02E <small>551703986-0045</small>	PLASTER STAFF WASHROOM	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-E4 02F <small>551703986-0046</small> <i>Inseparable Layers</i>	PLASTER LINEN STORAGE	Gray/White Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
17429-JH-E4 02G <small>551703986-0047</small>	PLASTER PHYSICAN CHARTING ROOM	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-E4 03A <small>551703986-0048</small>	CT EAST CORRIDOR	Gray Fibrous Homogeneous	40% Cellulose 10% Min. Wool	35% Perlite 15% Non-fibrous (Other)	None Detected
17429-JH-E4 03B <small>551703986-0049</small>	CT EAST CORRIDOR	Gray Fibrous Homogeneous	50% Cellulose 10% Min. Wool	30% Perlite 10% Non-fibrous (Other)	None Detected
17429-JH-E4 03C <small>551703986-0050</small>	CT EAST CORRIDOR	Gray Fibrous Homogeneous	40% Cellulose 20% Min. Wool	35% Perlite 5% Non-fibrous (Other)	None Detected
17429-JH-E5-01A <small>551703986-0051</small>	DJC STORAGE ROOM	White Non-Fibrous Homogeneous	<1% Cellulose	<1% Ca Carbonate 100% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17429-JH-E5-01B <i>551703986-0052</i>	DJC STORAGE ROOM	White Non-Fibrous Homogeneous	<1% Cellulose	<1% Ca Carbonate 100% Non-fibrous (Other)	None Detected
17429-JH-E5-01C <i>551703986-0053</i>	DJC STORAGE ROOM	White Non-Fibrous Homogeneous	<1% Cellulose	<1% Ca Carbonate 100% Non-fibrous (Other)	None Detected
17429-JH-E5-01D <i>551703986-0054</i> <i>Inseparable paint / coating layer included in analysis</i>	DJC STORAGE ROOM	White Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-E5-01E <i>551703986-0055</i>	DJC STORAGE ROOM	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-E5 02A <i>551703986-0056</i>	PLASTER PATIENT ROOM #1	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-E5 02B <i>551703986-0057</i>	PLASTER PATIENT ROOM #4	White Non-Fibrous Homogeneous		<1% Ca Carbonate 100% Non-fibrous (Other)	None Detected
17429-JH-E5 02C <i>551703986-0058</i>	PLASTER PATIENT ROOM #4 SUPPLY ROOM	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-E5 02D <i>551703986-0059</i> <i>Base coat insufficient</i>	PLASTER STORAGE/OLD OR ROOM	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-E5 02E <i>551703986-0060</i>	PLASTER CONFERENCE ROOM	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-E5 02F <i>551703986-0061</i>	PLASTER WEST CORRIDOR	Gray/White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
17429-JH-E5 02G <i>551703986-0062</i>	PLASTER SOUTHWEST CORNER CORRIDOR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-E5 03A <i>551703986-0063</i>	CT WEST CORRIDOR	Gray Fibrous Homogeneous	50% Cellulose 15% Min. Wool	20% Perlite 15% Non-fibrous (Other)	None Detected
17429-JH-E5 03B <i>551703986-0064</i>	CT WEST CORRIDOR	Gray Fibrous Homogeneous	60% Cellulose 5% Min. Wool	20% Perlite 15% Non-fibrous (Other)	None Detected
17429-JH-E5 03C <i>551703986-0065</i>	CT WEST CORRIDOR	Gray Fibrous Homogeneous	40% Cellulose 20% Min. Wool	35% Perlite 5% Non-fibrous (Other)	None Detected
17429-JH-E5 04A <i>551703986-0066</i>	ROUGH PLASTER STAIRWELL	Gray/White Non-Fibrous Homogeneous	<1% Cellulose	7% Quartz 93% Non-fibrous (Other)	None Detected
17429-JH-E5 04B <i>551703986-0067</i>	ROUGH PLASTER STAIRWELL	Gray/White Non-Fibrous Homogeneous		8% Quartz 92% Non-fibrous (Other)	None Detected
17429-JH-E5 04C <i>551703986-0068</i>	ROUGH PLASTER STAIRWELL	Gray Non-Fibrous Homogeneous		8% Quartz 92% Non-fibrous (Other)	None Detected
17429-JH-E5 04D <i>551703986-0069</i>	ROUGH PLASTER STAIRWELL	Gray Non-Fibrous Homogeneous		9% Quartz 91% Non-fibrous (Other)	None Detected

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EMSL Canada Order: 551703986

Customer ID: 55ECOH45

Customer PO: 17429

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17429-JH-E5 04E <small>551703986-0070</small>	ROUGH PLASTER STAIRWELL	Gray Non-Fibrous Homogeneous	<1% Cellulose	8% Quartz 92% Non-fibrous (Other)	None Detected
17429-JH-E5 04F <small>551703986-0071</small>	ROUGH PLASTER STAIRWELL	Gray/White Non-Fibrous Heterogeneous		9% Quartz 91% Non-fibrous (Other)	None Detected
<small>Inseparable paint / coating layer included in analysis</small>					
17429-JH-E5 04G <small>551703986-0072</small>	ROUGH PLASTER STAIRWELL	Gray/White Non-Fibrous Heterogeneous	<1% Cellulose	9% Quartz 91% Non-fibrous (Other)	None Detected
<small>Inseparable paint / coating layer included in analysis</small>					

Analyst(s)

Jamey Cooper (34)

Ryan Shannon (38)

Matthew Davis
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Ann Arbor, MI NVLAP Lab Code 101048-4

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EMSL Canada Order: 551704608

Customer ID: 55ECOH45

Customer PO: 17429

Project ID:

Attention: Brittanie Semper
ECOH Management, Inc.
75 Courtneypark Drive West
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Received Date: 04/26/2017 5:00 PM

Analysis Date: 05/03/2017

Collected Date: 04/28/2017

Project: 17429-JH- April 17, 2017 - Juravinski F Wing ASB

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos % Type
			% Fibrous	% Non-Fibrous	
17429-JH-F0 01a <small>551704608-0001</small>	DJC Ceiling Bed 1	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F0 01b <small>551704608-0002</small>	DJC Ceiling Rm 10	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F0 01c <small>551704608-0003</small>	DJC Ceiling Rm 10	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F0 01d <small>551704608-0004</small>	DJC Ceiling Lunchroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F0 01e <small>551704608-0005</small>	DJC Ceiling Lunchroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F0 01f <small>551704608-0006</small>	DJC Ceiling Corridor Radiology	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F0 01g <small>551704608-0007</small>	DJC Ceiling Radiologist Rm.	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F0 06a <small>551704608-0008</small>	CT 24x24 Small + Large Random Pinhole	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
17429-JH-F0 06b <small>551704608-0009</small>	CT 24x24 Small + Large Random Pinhole	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
17429-JH-F0 06c <small>551704608-0010</small>	CT 24x24 Small + Large Random Pinhole	Gray Fibrous Homogeneous	35% Cellulose 40% Min. Wool	25% Non-fibrous (Other)	None Detected
17429-JH-F0 07a <small>551704608-0011</small>	CT 24x48 Textured (Popcorn)	Gray Fibrous Homogeneous	20% Cellulose 40% Min. Wool	40% Non-fibrous (Other)	None Detected
17429-JH-F0 07b <small>551704608-0012</small>	CT 24x48 Textured (Popcorn) Emergency Shower	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
17429-JH-F0 07c <small>551704608-0013</small>	CT 24x48 Textured (Popcorn) Outside Washroom	Gray Fibrous Homogeneous	35% Cellulose 40% Min. Wool	25% Non-fibrous (Other)	None Detected
17429-JH-F0 08a <small>551704608-0014</small>	CT 24x24 Textured Medium Pinhole	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
17429-JH-F0 08b <small>551704608-0015</small>	CT 24x24 Textured Medium Pinhole	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
17429-JH-F0 08c <small>551704608-0016</small>	CT 24x24 Textured Medium Pinhole	Gray Fibrous Homogeneous	35% Cellulose 40% Min. Wool	25% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17429-JH-F1 01a 551704608-0017	CT 24 x 24 Medium Pinhole and Flecks, Corridor	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
17429-JH-F1 01b 551704608-0018	CT 24 x 24 Medium Pinhole and Flecks, Corridor	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
17429-JH-F1 01c 551704608-0019	CT 24 x 24 Medium Pinhole and Flecks, Corridor	Gray Fibrous Homogeneous	35% Cellulose 40% Min. Wool	25% Non-fibrous (Other)	None Detected
17429-JH-F1 02a 551704608-0020	CT 24 x 24 Large and Small Pinholes, Corridor	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
17429-JH-F1 02b 551704608-0021	CT 24 x 24 Large and Small Pinholes, Corridor	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
17429-JH-F1 02c 551704608-0022	CT 24 x 24 Large and Small Pinholes, Corridor	Gray Fibrous Homogeneous	35% Cellulose 40% Min. Wool	25% Non-fibrous (Other)	None Detected
17429-JH-F1 03a 551704608-0023	CT 24 x 48 Large and Medium Pinholes, Textured, Room 104	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
17429-JH-F1 03b 551704608-0024	CT 24 x 48 Large and Medium Pinholes, Textured, Room 106	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
17429-JH-F1 03c 551704608-0025	CT 24 x 48 Large and Medium Pinholes, Textured, Room 109B	Gray Fibrous Homogeneous	35% Cellulose 40% Min. Wool	25% Non-fibrous (Other)	None Detected
17429-JH-F1 04a 551704608-0026	CT 24 x 48 Texture with Small Pinholes, Lab	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
17429-JH-F1 04b 551704608-0027	CT 24 x 48 Texture with Small Pinholes, Lab	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
17429-JH-F1 04c 551704608-0028	CT 24 x 48 Texture with Small Pinholes, Lab	Gray Fibrous Homogeneous	35% Cellulose 40% Min. Wool	25% Non-fibrous (Other)	None Detected
17429-JH-F1 05a 551704608-0029	Drywall Joint Compound - Ceiling - Room 116	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F1 05b 551704608-0030	Drywall Joint Compound - Ceiling - Room 116	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F1 05c 551704608-0031	Drywall Joint Compound - Ceiling - Room 116	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F2 01a 551704608-0032	CT 24x24 Fleck and Pinhole, Corridor	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
17429-JH-F2 01b 551704608-0033	CT 24x24 Fleck and Pinhole, Corridor	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
17429-JH-F2 01c 551704608-0034	CT 24x24 Fleck and Pinhole, Corridor	Gray Fibrous Homogeneous	35% Cellulose 40% Min. Wool	25% Non-fibrous (Other)	None Detected
17429-JH-F2 02a 551704608-0035	CT 24x24 Small and Large Pinhole, Corridor	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17429-JH-F2 02b 551704608-0036	CT 24x24 Small and Large Pinhole, Corridor	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
17429-JH-F2 02c 551704608-0037	CT 24x24 Small and Large Pinhole, Corridor	Gray Fibrous Homogeneous	35% Cellulose 40% Min. Wool	25% Non-fibrous (Other)	None Detected
17429-JH-F2 03a 551704608-0038	Drywall Joint Compound - Ceiling - Room 491	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F2 03b 551704608-0039	Drywall Joint Compound - Ceiling - Lab Office	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F2 03c 551704608-0040	Drywall Joint Compound - Ceiling - Lab Office	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F2 03d 551704608-0041	Drywall Joint Compound - Ceiling - Staffroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F2 03e 551704608-0042	Drywall Joint Compound - Ceiling - Room 483	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F2 03f 551704608-0043	Drywall Joint Compound - Ceiling - Lab Area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F2 03g 551704608-0044	Drywall Joint Compound - Ceiling - Lab Area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F2 04a-Skim Coat 551704608-0045	Plaster - Ceiling - Storage Room	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F2 04a-Rough Coat 551704608-0045A	Plaster - Ceiling - Storage Room	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F2 04b-Skim Coat 551704608-0046	Plaster - Ceiling - Lab Area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F2 04b-Rough Coat 551704608-0046A	Plaster - Ceiling - Lab Area	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F2 04c-Skim Coat 551704608-0047	Plaster - Ceiling - Lab Area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F2 04c-Rough Coat 551704608-0047A	Plaster - Ceiling - Lab Area	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F2 04d-Skim Coat 551704608-0048	Plaster - Ceiling - Lab Area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17429-JH-F2 04d-Rough Coat	Plaster - Ceiling - Lab Area	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0048A					
17429-JH-F2 04e-Skim Coat	Plaster - Ceiling - Lab Area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0049					
17429-JH-F2 04e-Rough Coat	Plaster - Ceiling - Lab Area	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0049A					
17429-JH-F2 04f-Skim Coat	Plaster - Ceiling - Lab Area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0050					
17429-JH-F2 04f-Rough Coat	Plaster - Ceiling - Lab Area	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0050A					
17429-JH-F2 04g-Skim Coat	Plaster - Ceiling - Lab Area	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0051					
17429-JH-F2 04g-Rough Coat	Plaster - Ceiling - Lab Area	Gray Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
551704608-0051A					
17429-JH-F3 01a	Drywall Joint Compound - Ceiling - Washroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0052					
17429-JH-F3 01b	Drywall Joint Compound - Ceiling - Room 346	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0053					
17429-JH-F3 01c	Drywall Joint Compound - Ceiling - Linen Room	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0054					
17429-JH-F3 01d	Drywall Joint Compound - Ceiling - Storage Room				Not Submitted
551704608-0055					
17429-JH-F3 01e	Drywall Joint Compound - Ceiling - Storage Room	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0056					
17429-JH-F3 01f	Drywall Joint Compound - Ceiling - Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0057					
17429-JH-F3 01g	Drywall Joint Compound - Ceiling - Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0058					
17429-JH-F3 02a-Skim Coat	Plaster - Ceiling - Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0059					
17429-JH-F3 02a-Rough Coat	Plaster - Ceiling - Corridor	Gray Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
551704608-0059A					

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17429-JH-F3 02b-Skim Coat	Plaster - Ceiling - Room 344	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0060					
17429-JH-F3 02b-Rough Coat	Plaster - Ceiling - Room 344	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0060A					
17429-JH-F3 02c-Skim Coat	Plaster - Ceiling - Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0061					
17429-JH-F3 02c-Rough Coat	Plaster - Ceiling - Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0061A					
17429-JH-F3 02d-Skim Coat	Plaster - Ceiling - Room 341	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0062					
17429-JH-F3 02d-Rough Coat	Plaster - Ceiling - Room 341	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0062A					
17429-JH-F3 02e-Skim Coat	Plaster - Ceiling - Room 338	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0063					
17429-JH-F3 02e-Rough Coat	Plaster - Ceiling - Room 338	Gray Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
551704608-0063A					
17429-JH-F3 02f-Skim Coat	Plaster - Ceiling - Room 338	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0064					
17429-JH-F3 02f-Rough Coat	Plaster - Ceiling - Room 338	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0064A					
17429-JH-F3 02g-Skim Coat	Plaster - Ceiling - Room 301	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0065					
17429-JH-F3 02g-Rough Coat	Plaster - Ceiling - Room 301	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0065A					
17429-JH-F3 03a	CT 24x24 Fleck and Pinhole - Corridor	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
551704608-0066					
17429-JH-F3 03b	CT 24x24 Fleck and Pinhole - Corridor	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
551704608-0067					
17429-JH-F3 03c	CT 24x24 Fleck and Pinhole - Corridor	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
551704608-0068					

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17429-JH-F4 01a-Skim Coat	Plaster - Ceiling - Electrical Room	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
<i>551704608-0069</i>					
17429-JH-F4 01a-Rough Coat	Plaster - Ceiling - Electrical Room	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
<i>551704608-0069A</i>					
17429-JH-F4 01b	Plaster - Ceiling - Electrical Room	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
<i>551704608-0070</i> <i>No rough coat</i>					
17429-JH-F4 01c-Skim Coat	Plaster - Ceiling - Cleaner's Closet	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
<i>551704608-0071</i>					
17429-JH-F4 01c-Rough Coat	Plaster - Ceiling - Cleaner's Closet	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
<i>551704608-0071A</i>					
17429-JH-F4 01d	Plaster - Ceiling - Washroom	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
<i>551704608-0072</i> <i>Inseperable layers</i>					
17429-JH-F4 01e-Skim Coat	Plaster - Ceiling - Linen Room	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
<i>551704608-0073</i>					
17429-JH-F4 01e-Rough Coat	Plaster - Ceiling - Linen Room	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
<i>551704608-0073A</i>					
17429-JH-F4 01f-Skim Coat	Plaster - Ceiling - Kitchenette	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
<i>551704608-0074</i>					
17429-JH-F4 01f-Rough Coat	Plaster - Ceiling - Kitchenette	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
<i>551704608-0074A</i>					
17429-JH-F4 01g-Skim Coat	Plaster - Ceiling - Washroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
<i>551704608-0075</i>					
17429-JH-F4 01g-Rough Coat	Plaster - Ceiling - Washroom	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
<i>551704608-0075A</i>					
17429-JH-F4 03a	CT 24x24 Fleck and Pinhole - Corridor	Gray Fibrous Homogeneous	35% Cellulose 40% Min. Wool	25% Non-fibrous (Other)	None Detected
<i>551704608-0076</i>					
17429-JH-F4 03b	CT 24x24 Fleck and Pinhole - Corridor	Gray Fibrous Homogeneous	35% Cellulose 40% Min. Wool	25% Non-fibrous (Other)	None Detected
<i>551704608-0077</i>					
17429-JH-F4 03c	CT 24x24 Fleck and Pinhole - Corridor	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
<i>551704608-0078</i>					

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EMSL Canada Order: 551704608

Customer ID: 55ECOH45

Customer PO: 17429

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17429-JH-F4 04a <i>551704608-0079</i>	CT 24x24 Large and Small Pinholes - Corridor	Gray Fibrous Homogeneous	35% Cellulose 40% Min. Wool	25% Non-fibrous (Other)	None Detected
17429-JH-F4 04b <i>551704608-0080</i>	CT 24x24 Large and Small Pinholes - Corridor	Gray Fibrous Homogeneous	35% Cellulose 45% Min. Wool	20% Non-fibrous (Other)	None Detected
17429-JH-F4 04c <i>551704608-0081</i>	CT 24x24 Large and Small Pinholes - Corridor	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
17429-JH-F5 01a <i>551704608-0082</i>	Drywall Joint Compound - Ceiling - Electrical Room	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F5 01b <i>551704608-0083</i>	Drywall Joint Compound - Ceiling - Electrical Room	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F5 01c <i>551704608-0084</i>	Drywall Joint Compound - Ceiling - Washroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F5 01d <i>551704608-0085</i>	Drywall Joint Compound - Ceiling - Washroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F5 01e <i>551704608-0086</i>	Drywall Joint Compound - Ceiling - Washroom				Not Submitted
17429-JH-F5 01f <i>551704608-0087</i>	Drywall Joint Compound - Ceiling - Kitchenette	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F5 01g <i>551704608-0088</i>	Drywall Joint Compound - Ceiling - Washroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F5 02a-Skim Coat <i>551704608-0089</i>	Plaster - Ceiling - Electrical Room	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F5 02a-Rough Coat <i>551704608-0089A</i>	Plaster - Ceiling - Electrical Room	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F5 02b <i>551704608-0090</i> <i>Inseperable layers</i>	Plaster - Ceiling - Electrical Room	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F5 02c <i>551704608-0091</i>	Plaster - Ceiling - Washroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
17429-JH-F5 02d <i>551704608-0092</i> <i>inseperable layers</i>	Plaster - Ceiling - Kitchenette	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-F5 02e <i>551704608-0093</i> <i>Inseperable layers</i>	Plaster - Ceiling - Linen Room	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
17429-JH-F5 02f <i>551704608-0094</i>	Plaster - Ceiling - Linen Room	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17429-JH-F5 02g-Skim Coat	Plaster - Ceiling - Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0095					
17429-JH-F5 02g-Rough Coat	Plaster - Ceiling - Corridor	Gray Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
551704608-0095A					
17429-JH-F5 03a	CT 24x24 Random Pinhole Pattern - Corridor	Gray Fibrous Homogeneous	35% Cellulose 40% Min. Wool	25% Non-fibrous (Other)	None Detected
551704608-0096					
17429-JH-F5 03b	CT 24x24 Random Pinhole Pattern - Corridor	Gray Fibrous Homogeneous	35% Cellulose 40% Min. Wool	25% Non-fibrous (Other)	None Detected
551704608-0097					
17429-JH-F5 03c	CT 24x24 Random Pinhole Pattern - Corridor	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
551704608-0098					
17429-JH-FSW1 01a	Rough Plaster - Ceiling - South Stairwell, 2nd Floor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0099					
17429-JH-FSW1 01b	Rough Plaster - Ceiling - South Stairwell, 3rd Floor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0100					
17429-JH-FSW1 01c	Rough Plaster - Ceiling - South Stairwell, 3rd Floor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0101					
17429-JH-FSW1 01d	Rough Plaster - Ceiling - South Stairwell, 4th Floor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0102					
17429-JH-FSW1 01e	Rough Plaster - Ceiling - South Stairwell, 4th Floor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0103					
17429-JH-FSW1 01f	Rough Plaster - Ceiling - South Stairwell, 1st Floor	Gray Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
551704608-0104					
17429-JH-FSW1 01g	Rough Plaster - Ceiling - South Stairwell, 0 Floor	Gray Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
551704608-0105					
17429-JH-FSW2 02a	Rough Plaster - Ceiling - North Stairwell, 1st Floor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0106					
17429-JH-FSW2 02b	Rough Plaster - Ceiling - North Stairwell, 1st Floor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0107					
17429-JH-FSW2 02c	Rough Plaster - Ceiling - North Stairwell, 2nd Floor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0108					
17429-JH-FSW2 02d	Rough Plaster - Ceiling - North Stairwell, 3rd Floor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704608-0109					
17429-JH-FSW2 02e	Rough Plaster - Ceiling - North Stairwell, 4th Floor	Gray Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
551704608-0110					
17429-JH-FSW2 02f	Rough Plaster - Ceiling - North Stairwell, 5th Floor	Gray Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
551704608-0111					

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EMSL Canada Order: 551704608

Customer ID: 55ECOH45

Customer PO: 17429

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17429-JH-FSW2 02g	Rough Plaster - Ceiling - North	Gray Non-Fibrous		99% Non-fibrous (Other)	1% Chrysotile
551704608-0112	Stairwell, Roof Access	Homogeneous			

Analyst(s)

John Biesiadecki (25)

Natalie D'Amico (43)

Shorthri Kalikutty (63)

Matthew Davis
or Other Approved Signatory

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Samples analyzed by EMSL Canada Inc. Mississauga, ON NVLAP Lab Code 200877-0

Initial report from: 05/03/2017 21:37:03



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EMSL Canada Order: 551704608

Customer ID: 55ECOH45

Customer PO: 17429

Project ID:

Attention: Brittanie Semper
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75 Courtneypark Drive West
Unit 1
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Phone: (905) 795-2800

Fax: (905) 795-2870

Received: 04/26/2017 5:00 PM

Analysis Date: 05/03/2017

Collected: 04/28/2017

Project: 17429-JH- April 17, 2017 - Juravinski F Wing ASB

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17429-JH-F5 02c 551704608-0091	Plaster - Ceiling - Washroom	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<0.25% Chrysotile
17429-JH-F5 02e 551704608-0093	Plaster - Ceiling - Linen Room	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

John Biesiadecki (1)

Natalie D'Amico (1)

Matthew Davis

or other approved signatory

Disclaimer: Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Canada Inc. Mississauga, ON NVLAP Lab Code 200877-0

Initial report from: 05/03/2017 21:37:01



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EMSL Canada Order: 551704002

Customer ID: 55ECOH45

Customer PO: 7429-JH

Project ID:

Attention: Brittanie Semper
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Project: 17429-JH Juravinski Hospital E WING

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Received Date: 04/12/2017 5:00 PM

Analysis Date: 04/19/2017

Collected Date: 03/27/2017

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17429-JH-G0-01A <small>551704002-0001</small>	DJC Stairwell Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-G0-01B <small>551704002-0002</small>	DJC Stairwell Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-G0-01C <small>551704002-0003</small>	DJC Stairwell Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-G0-02A <small>551704002-0004</small>	Plaster Men's Washroom Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-G0-02B <small>551704002-0005</small>	Plaster Women's Washroom Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-G0-02C <small>551704002-0006</small>	Plaster Women's Washroom Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-G0-02D <small>551704002-0007</small>	Plaster Men's Washroom Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-G0-02E <small>551704002-0008</small>	Plaster Washroom Ceiling	Gray/White Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-G0-02F <small>551704002-0009</small>	Plaster Washroom Ceiling	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-G0-02G <small>551704002-0010</small>	Plaster Storage Rm. Ceiling	Gray/White Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-G0-03A <small>551704002-0011</small>	CT Corridor	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
17429-JH-G0-03B <small>551704002-0012</small>	CT Corridor	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
17429-JH-G0-03C <small>551704002-0013</small>	CT Corridor	Gray/White Fibrous Homogeneous	35% Cellulose 45% Min. Wool	20% Non-fibrous (Other)	None Detected
17429-JH-G0-04A <small>551704002-0014</small>	Rough Plaster Stairwell	Gray Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
17429-JH-G0-04B <small>551704002-0015</small>	Rough Plaster Stairwell	Gray Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
17429-JH-G0-04C <small>551704002-0016</small>	Rough Plaster Stairwell	Gray/White Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	<1% Chrysotile

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17429-JH-G1-01A <small>551704002-0017</small>	DJC Electrical Room Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-G1-01B <small>551704002-0018</small>	DJC Storage Rm. Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-G1-01C <small>551704002-0019</small>	DJC Corridor Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-G1-01D <small>551704002-0020</small>	DJC Washroom Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-G1-01E <small>551704002-0021</small>	DJC Janitor's Closet Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-G1-01F <small>551704002-0022</small>	DJC Men's Washroom Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-G1-01G <small>551704002-0023</small>	DJC Women's Washroom Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-G1-03A <small>551704002-0024</small>	CT Corridor	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
17429-JH-G1-03B <small>551704002-0025</small>	CT Corridor	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
17429-JH-G2-03C <small>551704002-0026</small>	CT Corridor	Gray/White Fibrous Homogeneous	35% Cellulose 45% Min. Wool	20% Non-fibrous (Other)	None Detected
17429-JH-G2-04D <small>551704002-0027</small>	Rough Plaster Stairwell	Gray Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
17429-JH-G2-04E <small>551704002-0028</small>	Rough Plaster Stairwell	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
17429-JH-G2-01A <small>551704002-0029</small>	DJC Men's Washroom Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-G2-01B <small>551704002-0030</small>	DJC Corridor Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-G2-01C <small>551704002-0031</small>	DJC Housekeeping Closet Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-G2-01D <small>551704002-0032</small>	DJC Women's Washroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-G2-01E <small>551704002-0033</small>	DJC IT Room Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-G2-01F <small>551704002-0034</small>	DJC Storage Rm. Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-G2-01G <small>551704002-0035</small>	DJC Corridor Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17429-JH-G2-03A <small>551704002-0036</small>	CT Corridor	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
17429-JH-G2-03B <small>551704002-0037</small>	CT Corridor	Gray Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
17429-JH-G2-03C <small>551704002-0038</small>	CT Corridor	Gray Fibrous Homogeneous	35% Cellulose 45% Min. Wool	20% Non-fibrous (Other)	None Detected
17429-JH-G2-04F <small>551704002-0039</small>	Rough Plaster Stairwell	Gray Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
17429-JH-G2-04G <small>551704002-0040</small>	Rough Plaster Stairwell	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

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Jon Delos Santos (16)

Matthew Davis
or Other Approved Signatory

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Samples analyzed by EMSL Canada Inc. Mississauga, ON NVLAP Lab Code 200877-0

Initial report from: 04/19/2017 19:22:35



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EMSL Canada Order: 551704002

Customer ID: 55ECOH45

Customer PO: 7429-JH

Project ID:

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Project: 17429-JH Juravinski Hospital E WING

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Received: 04/12/2017 5:00 PM
Analysis Date: 04/19/2017
Collected: 03/27/2017

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17429-JH-G0-04C 551704002-0016	Rough Plaster Stairwell	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<0.25% Chrysotile
17429-JH-G2-04E 551704002-0028	Rough Plaster Stairwell	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<0.25% Chrysotile

Analyst(s)

Jon Delos Santos (2)

Matthew Davis
or other approved signatory

Disclaimer: Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Canada Inc. Mississauga, ON NVLAP Lab Code 200877-0

Report amended: 04/19/2017 19:35:31 Replaces initial report from: 04/19/2017 19:35:31 Reason Code: Data Entry-Test Added



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Received Date: 04/12/2017 5:00 PM

Analysis Date: 04/19/2017

Collected Date:

Project: 17429 - JH - JURAVINSKI HOSPITAL L WING

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17429-JH-L0 01A <small>551703974-0001</small>	DJC STAIRWELL CEILING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-L0 01B <small>551703974-0002</small>	DJC OFFICE CEILING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-L0 01C <small>551703974-0003</small>	DJC OFFICE WASHROOM CEILING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-L0 01D <small>551703974-0004</small>	DJC OFFICE CEILING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-L0 01E <small>551703974-0005</small>	DJC HALLWAY CEILING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-L0 01F <small>551703974-0006</small>	DJC JANITOR'S CLOSET CEILING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-L0 01G <small>551703974-0007</small> <i>Bag is empty.</i>	DJC JANITOR'S CLOSET CEILING				Not Submitted
17429-JH-L1 01A <small>551703974-0008</small>	DJC OFFICE CEILING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-L1 01B <small>551703974-0009</small>	DJC OFFICE CEILING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-L1 01C <small>551703974-0010</small>	DJC OFFICE WASHROOM CEILING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-L1 01D <small>551703974-0011</small>	DJC OFFICE WASHROOM CEILING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-L1 01E <small>551703974-0012</small>	DJC JANITOR'S CLOSET CEILING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-L1 01F <small>551703974-0013</small>	DJC CEILINT AT DOOR ACCESSING WING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-L1 01G <small>551703974-0014</small>	DJC OFFICE CEILING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-L2 01A <small>551703974-0015</small>	DJC. RM 1189 - OFFICE WASHROOM CEILING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 04/19/2017 16:15:22



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EMSL Canada Order: 551703974

Customer ID: 55ECOH45

Customer PO: 17429-JH

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17429-JH-L2 01B 551703974-0016	DJC. RM 1183 - OFFICE WASHROOM CEILING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-L2 01C 551703974-0017	DJC. RM 1187 - OFFICE WASHROOM CEILING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-L2 01D 551703974-0018	DJC JANITOR'S CLOSET CEILING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-L2 01E 551703974-0019	DJC CEILING AT ENTRANCE WING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-L2 01F 551703974-0020	DJC RM. 1186 - OFFICE WASHROOM CEILING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-L2 01G 551703974-0021	DJC. RM 1190 - OFFICE WASHROOM CEILING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-L3 01A 551703974-0022	DJC HALLWAY CEILING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-L3 01B 551703974-0023	DJC HALLWAY WASHROOM CEILING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-L3 01C 551703974-0024	DJC JANITOR'S CLOSET CEILING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-L3 01D 551703974-0025	DJC OFFICE CEILING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-L3 01E 551703974-0026	DJC HALLWAY WASHROOM CEILING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-L3 01F 551703974-0027	DJC HALLWAY CEILING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-L3 01G 551703974-0028	DJC HALLWAY CEILING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

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Natalie D'Amico (16)

Matthew Davis
or Other Approved Signatory

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Samples analyzed by EMSL Canada Inc. Mississauga, ON NVLAP Lab Code 200877-0

Initial report from: 04/19/2017 16:15:22



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Received Date: 04/12/2017 5:00 PM

Analysis Date: 04/19/2017

Collected Date: 03/27/2017

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17429-JH-MB-02A <small>551704007-0001</small>	Plaster Ceiling Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-MB-02B <small>551704007-0002</small>	Plaster Ceiling Equipment Rm.	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-MB-02C <small>551704007-0003</small>	Plaster Ceiling Equipment Rm.	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-MB-02D <small>551704007-0004</small>	Plaster Ceiling Large Storage Rm.	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-MB-02E <small>551704007-0005</small>	Plaster Ceiling Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-MB-02F <small>551704007-0006</small>	Plaster Ceiling Stairwell	Gray/White Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-MB-02G <small>551704007-0007</small>	Plaster Ceiling Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M0-02A-Skim Coat <small>551704007-0008</small>	Plaster Ceiling Electrical Rm.	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M0-02A-Base Coat <small>551704007-0008A</small>	Plaster Ceiling Electrical Rm.	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M0-02B-Skim Coat <small>551704007-0009</small>	Plaster Ceiling Stairwell	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M0-02B-Base Coat <small>551704007-0009A</small>	Plaster Ceiling Stairwell	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M0-02C-Skim Coat <small>551704007-0010</small>	Plaster Ceiling Stairwell	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M0-02C-Base Coat <small>551704007-0010A</small>	Plaster Ceiling Stairwell	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M0-02D-Skim Coat <small>551704007-0011</small>	Plaster Ceiling Electrical Rm.	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 04/19/2017 16:21:18



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EMSL Canada Order: 551704007

Customer ID: 55ECOH45

Customer PO: 17429-JH

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17429-JH-M0-02D-Base Coat	Plaster Ceiling Electrical Rm.	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0011A					
17429-JH-M0-02E-Skim Coat	Plaster Ceiling Electrical Rm.	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0012					
17429-JH-M0-02E-Base Coat	Plaster Ceiling Electrical Rm.	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0012A					
17429-JH-M0-02F-Skim Coat	Plaster Ceiling Electrical Rm.	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0013					
17429-JH-M0-02F-Base Coat	Plaster Ceiling Electrical Rm.	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0013A					
17429-JH-M0-02G-Skim Coat	Plaster Ceiling Electrical Rm.	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0014					
17429-JH-M0-02G-Base Coat	Plaster Ceiling Electrical Rm.	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0014A					
17429-JH-M0-03A	CT 24x24 Fleck and Pinhole Corridor	Gray Fibrous Homogeneous	80% Cellulose 5% Glass	15% Non-fibrous (Other)	None Detected
551704007-0015					
17429-JH-M0-03B	CT 24x24 Fleck and Pinhole Corridor	Gray Fibrous Homogeneous	80% Cellulose 5% Glass	15% Non-fibrous (Other)	None Detected
551704007-0016					
17429-JH-M0-03C	CT 24x24 Fleck and Pinhole Corridor	Gray Fibrous Homogeneous	80% Cellulose 5% Glass	15% Non-fibrous (Other)	None Detected
551704007-0017					
17429-JH-M1-02A-Skim Coat	Plaster Ceiling Mechanical Rm.	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0018					
17429-JH-M1-02A-Base Coat	Plaster Ceiling Mechanical Rm.	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0018A					
17429-JH-M1-02B-Skim Coat	Plaster Ceiling Mechanical Rm.	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0019					
17429-JH-M1-02B-Base Coat	Plaster Ceiling Mechanical Rm.	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0019A					
17429-JH-M1-02C-Skim Coat	Plaster Ceiling Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0020					

Initial report from: 04/19/2017 16:21:18



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EMSL Canada Order: 551704007

Customer ID: 55ECOH45

Customer PO: 17429-JH

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17429-JH-M1-02C-Base Coat	Plaster Ceiling Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0020A					
17429-JH-M1-02D-Skim Coat	Plaster Ceiling Stairwell	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0021					
17429-JH-M1-02D-Base Coat	Plaster Ceiling Stairwell	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0021A					
17429-JH-M1-02E-Skim Coat	Plaster Ceiling Rm 31	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0022					
17429-JH-M1-02E-Base Coat	Plaster Ceiling Rm 31	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0022A					
17429-JH-M1-02F-Skim Coat	Plaster Ceiling Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0023					
17429-JH-M1-02F-Base Coat	Plaster Ceiling Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0023A					
17429-JH-M1-02G-Skim Coat	Plaster Ceiling Fitness Rm.	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0024					
17429-JH-M1-02G-Base Coat	Plaster Ceiling Fitness Rm.	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0024A					
17429-JH-M1-03A	CT 24x24 Fleck and Pinhole Corridor	Gray Fibrous Homogeneous	60% Cellulose 20% Glass	20% Non-fibrous (Other)	None Detected
551704007-0025					
17429-JH-M1-03B	CT 24x24 Fleck and Pinhole Corridor	Gray Fibrous Homogeneous	60% Cellulose 20% Glass	20% Non-fibrous (Other)	None Detected
551704007-0026					
17429-JH-M1-03C	CT 24x24 Fleck and Pinhole Corridor	Gray Fibrous Homogeneous	60% Cellulose 20% Glass	20% Non-fibrous (Other)	None Detected
551704007-0027					
17429-JH-M2-02A-Skim Coat	Plaster Ceiling Stairwell	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0028					
17429-JH-M2-02A-Base Coat	Plaster Ceiling Stairwell	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0028A					
17429-JH-M2-02B-Skim Coat	Plaster Ceiling Mechanical Rm.	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0029					

Initial report from: 04/19/2017 16:21:18



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EMSL Canada Order: 551704007

Customer ID: 55ECOH45

Customer PO: 17429-JH

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17429-JH-M2-02B-Base Coat	Plaster Ceiling Mechanical Rm.	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0029A					
17429-JH-M2-02C-Skim Coat	Plaster Ceiling Corridor (above drop ceiling)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0030					
17429-JH-M2-02C-Base Coat	Plaster Ceiling Corridor (above drop ceiling)	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0030A					
17429-JH-M2-02D-Skim Coat	Plaster Ceiling Patient Activity Rm.	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0031					
17429-JH-M2-02D-Base Coat	Plaster Ceiling Patient Activity Rm.	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0031A					
17429-JH-M2-02E-Skim Coat	Plaster Ceiling Storage Rm.	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0032					
17429-JH-M2-02E-Base Coat	Plaster Ceiling Storage Rm.	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0032A					
17429-JH-M2-02F-Skim Coat	Plaster Ceiling Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0033					
17429-JH-M2-02F-Base Coat	Plaster Ceiling Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0033A					
17429-JH-M2-02G-Skim Coat	Plaster Ceiling Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0034					
17429-JH-M2-02G-Base Coat	Plaster Ceiling Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0034A					
17429-JH-M2-06A	CT 24x24 Small + Large Random Pinhole Corridor	Gray Fibrous Homogeneous	50% Cellulose 30% Glass	20% Non-fibrous (Other)	None Detected
551704007-0035					
17429-JH-M2-06B	CT 24x24 Small + Large Random Pinhole Corridor	Gray Fibrous Homogeneous	50% Cellulose 30% Glass	20% Non-fibrous (Other)	None Detected
551704007-0036					
17429-JH-M2-06C	CT 24x24 Small + Large Random Pinhole Corridor	Gray Fibrous Homogeneous	50% Cellulose 30% Glass	20% Non-fibrous (Other)	None Detected
551704007-0037					
17429-JH-M0-06A	CT 24x24 Small + Large Random Pinhole Corridor	Gray Fibrous Homogeneous	60% Cellulose 20% Glass	20% Non-fibrous (Other)	None Detected
551704007-0038					
17429-JH-M0-06B	CT 24x24 Small + Large Random Pinhole Corridor	Gray Fibrous Homogeneous	60% Cellulose 20% Glass	20% Non-fibrous (Other)	None Detected
551704007-0039					

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EMSL Canada Order: 551704007

Customer ID: 55ECOH45

Customer PO: 17429-JH

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17429-JH-M0-06C 551704007-0040	CT 24x24 Small + Large Random Pinhole Corridor	Gray Fibrous Homogeneous	60% Cellulose 20% Glass	20% Non-fibrous (Other)	None Detected
17429-JH-M3-02A-Skim Coat 551704007-0041	Plaster Ceiling Mechanical Rm.	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M3-02A-Base Coat 551704007-0041A	Plaster Ceiling Mechanical Rm.	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M3-02B-Skim Coat 551704007-0042	Plaster Ceiling Mechanical Rm.	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M3-02B-Base Coat 551704007-0042A	Plaster Ceiling Mechanical Rm.	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M3-02C-Skim Coat 551704007-0043	Plaster Ceiling (above drop ceiling)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M3-02C-Base Coat 551704007-0043A	Plaster Ceiling (above drop ceiling)	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M3-02D-Skim Coat 551704007-0044	Plaster Ceiling Rm. 17	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M3-02D-Base Coat 551704007-0044A	Plaster Ceiling Rm. 17	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M3-02E-Skim Coat 551704007-0045	Plaster Ceiling Linen Closet	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M3-02E-Base Coat 551704007-0045A	Plaster Ceiling Linen Closet	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M3-02F-Skim Coat 551704007-0046	Plaster Ceiling Kitchenette	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M3-02F-Base Coat 551704007-0046A	Plaster Ceiling Kitchenette	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M3-02G-Skim Coat 551704007-0047	Plaster Ceiling Stairwell	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M3-02G-Base Coat 551704007-0047A	Plaster Ceiling Stairwell	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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EMSL Canada Inc.

2756 Slough Street Mississauga, ON L9T 5N4

Tel/Fax: (289) 997-4602 / (289) 997-4607

<http://www.EMSL.com> / torontolab@emsl.com

EMSL Canada Order: 551704007

Customer ID: 55ECOH45

Customer PO: 17429-JH

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17429-JH-M3-06A <small>551704007-0048</small>	CT 24x24 Small + Large Random Pinhole Corridor	Gray Fibrous Homogeneous	60% Cellulose 20% Glass	20% Non-fibrous (Other)	None Detected
17429-JH-M3-06B <small>551704007-0049</small>	CT 24x24 Small + Large Random Pinhole Corridor	Gray Fibrous Homogeneous	60% Cellulose 20% Glass	20% Non-fibrous (Other)	None Detected
17429-JH-M3-06C <small>551704007-0050</small>	CT 24x24 Small + Large Random Pinhole Corridor	Gray Fibrous Homogeneous	60% Cellulose 20% Glass	20% Non-fibrous (Other)	None Detected
17429-JH-M4-02A-Skim Coat <small>551704007-0051</small>	Plaster Ceiling Mechanical Rm.	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M4-02A-Base Coat <small>551704007-0051A</small>	Plaster Ceiling Mechanical Rm.	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M4-02B-Skim Coat <small>551704007-0052</small>	Plaster Ceiling Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M4-02B-Base Coat <small>551704007-0052A</small>	Plaster Ceiling Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M4-02C-Skim Coat <small>551704007-0053</small>	Plaster Ceiling Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M4-02C-Base Coat <small>551704007-0053A</small>	Plaster Ceiling Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M4-02D-Skim Coat <small>551704007-0054</small>	Plaster Ceiling Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M4-02D-Base Coat <small>551704007-0054A</small>	Plaster Ceiling Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M4-02E-Skim Coat <small>551704007-0055</small>	Plaster Ceiling Stairwell	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M4-02E-Base Coat <small>551704007-0055A</small>	Plaster Ceiling Stairwell	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M4-02F-Skim Coat <small>551704007-0056</small>	Plaster Ceiling Outside Rm. 42S	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-JH-M4-02F-Base Coat <small>551704007-0056A</small>	Plaster Ceiling Outside Rm. 42S	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17429-JH-M4-02G-Skim Coat	Plaster Ceiling Outside Rm. 42S	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0057					
17429-JH-M4-02G-Base Coat	Plaster Ceiling Outside Rm. 42S	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0057A					
17429-JH-M5-02A-Skim Coat	Plaster Ceiling Roof Access	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0058					
17429-JH-M5-02A-Base Coat	Plaster Ceiling Roof Access	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0058A					
17429-JH-M5-02B-Skim Coat	Plaster Ceiling Storage Rm.	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0059					
17429-JH-M5-02B-Base Coat	Plaster Ceiling Storage Rm.	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0059A					
17429-JH-M5-02C-Skim Coat	Plaster Ceiling Washroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0060					
17429-JH-M5-02C-Base Coat	Plaster Ceiling Washroom	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0060A					
17429-JH-M5-02D-Skim Coat	Plaster Ceiling Washroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0061					
17429-JH-M5-02D-Base Coat	Plaster Ceiling Washroom	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0061A					
17429-JH-M5-02E-Skim Coat	Plaster Ceiling Corridor (above drop ceiling)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0062					
17429-JH-M5-02E-Base Coat	Plaster Ceiling Corridor (above drop ceiling)	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0062A					
17429-JH-M5-02F-Skim Coat	Plaster Ceiling Washroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0063					
17429-JH-M5-02F-Base Coat	Plaster Ceiling Washroom	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0063A					
17429-JH-M5-02G-Skim Coat	Plaster Ceiling Janitor's Closet	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
551704007-0064					

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Customer PO: 17429-JH

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17429-JH-M5-02G-Base Coat	Plaster Ceiling Janitor's Closet	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
<i>551704007-0064A</i>					
17429-JH-M5-03A	CT 24x24 Fleck and Pinhole Corridor	Gray Fibrous Homogeneous	50% Cellulose 30% Glass	20% Non-fibrous (Other)	None Detected
<i>551704007-0065</i>					
17429-JH-M5-03B	CT 24x24 Fleck and Pinhole Corridor	Gray Fibrous Homogeneous	50% Cellulose 30% Glass	20% Non-fibrous (Other)	None Detected
<i>551704007-0066</i>					
17429-JH-M5-03C	CT 24x24 Fleck and Pinhole Corridor	Gray Fibrous Homogeneous	50% Cellulose 30% Glass	20% Non-fibrous (Other)	None Detected
<i>551704007-0067</i>					

Analyst(s)

Tom Hanes (109)

Matthew Davis
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Depew, NY NVLAP Lab Code 200056-0

Initial report from: 04/19/2017 16:21:18

APPENDIX 2

DRAWINGS – ASBESTOS BULK SAMPLE LOCATIONS



TO 'M'
40 WING



TO 'L'
30 WING



TO 'H'
15 WING



TO 'E'
90 WING N



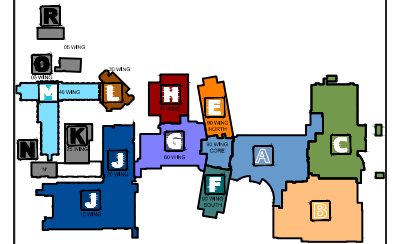
60 WING
CONSTRUCTED
1963



90 WING S
CONSTRUCTED
1960
RENOVATED
2014



90 WING CORE
CONSTR
1966



KEY PLAN

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	3/31/2016		UPDATED BY ECHO	MM

LEGEND:

	ACM PRESENT IN PLASTER AND/OR DRYWALL JOINT COMPOUND
	ACM PRESUMED. PROCEED WITH CAUTION.
	NO ACM PRESENT

GENERAL NOTES:

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JURAVINSKI SITE

Hamilton Health Sciences
ENGINEERING SERVICES

PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS:
LEVEL B
SECTION 'A', 'F', AND 'G'
ACM CEILING

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: DUSTIN COPELAND
DRAWN BY: MARCO MENDOZA	FILE NAME: Level 5
DRAWING NO.	

AFG-RA01C

M
TO 'M'
40 WING

L
TO 'L'
30 WING

J
TO 'J'
20 WING

H
TO 'H'
15 WING

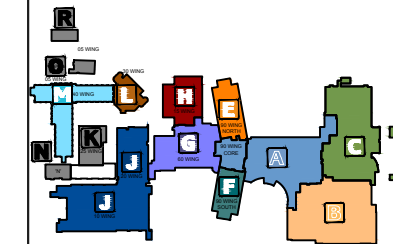
E
TO 'E'
90 WING N

J
TO 'J'
10 WING

G
60 WING
CONSTRUCTED
1963
NAR

F
90 WING S
CONSTRUCTED
1960
RENOVATED
2014

A
90 WING CORE
CONSTRUCTED
1966



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	3/31/2016		UPDATED BY ECOH	MM
13	6/15/2017		UPDATED BY ECOH	JK

- LEGEND:**
- ACM PLASTER AND/OR ROUGH PLASTER CEILING
 - SUSPECT ACM PLASTER CEILING
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

- GENERAL NOTES:**
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JURAVINSKI SITE

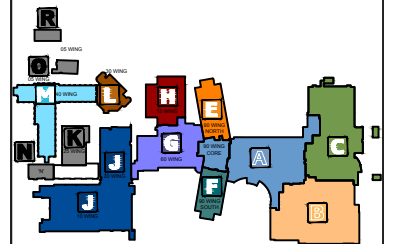
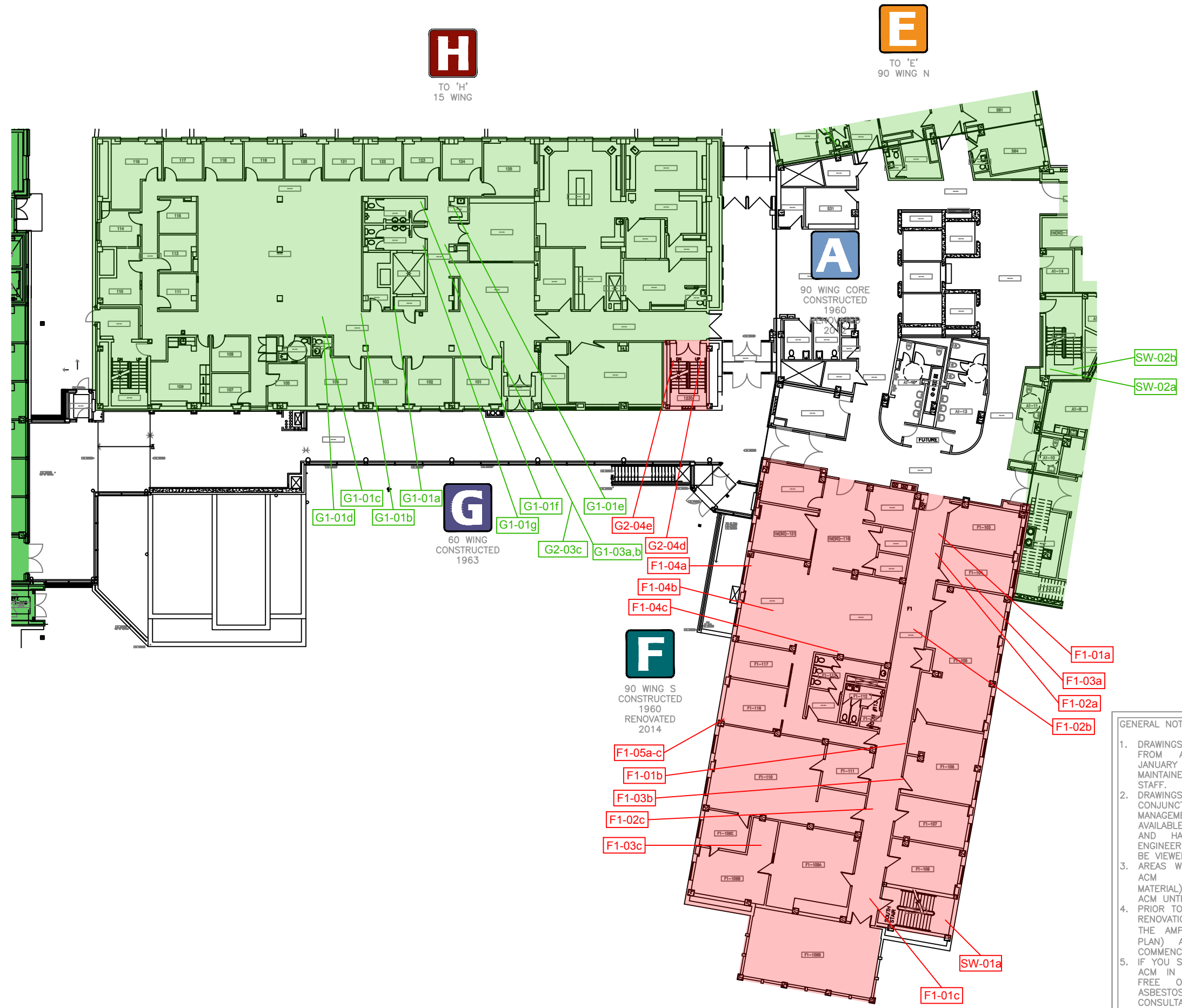
Hamilton Health Sciences
ENGINEERING SERVICES

PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS:
LEVEL 0
SECTION 'A', 'F', AND 'G'
ACM CEILING

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: DUSTIN COPELAND
DRAWN BY: MARCO MENDOZA	FILE NAME: Level 5
DRAWING NO.	

AFG-RA02C



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	3/31/2016		UPDATED BY ECOH	MM
13	6/15/2017		UPDATED BY ECOH	JK

- LEGEND:**
- ACM ROUGH PLASTER AND/OR PLASTER CEILING
 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

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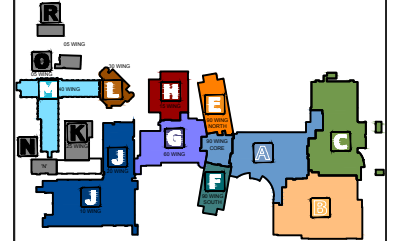
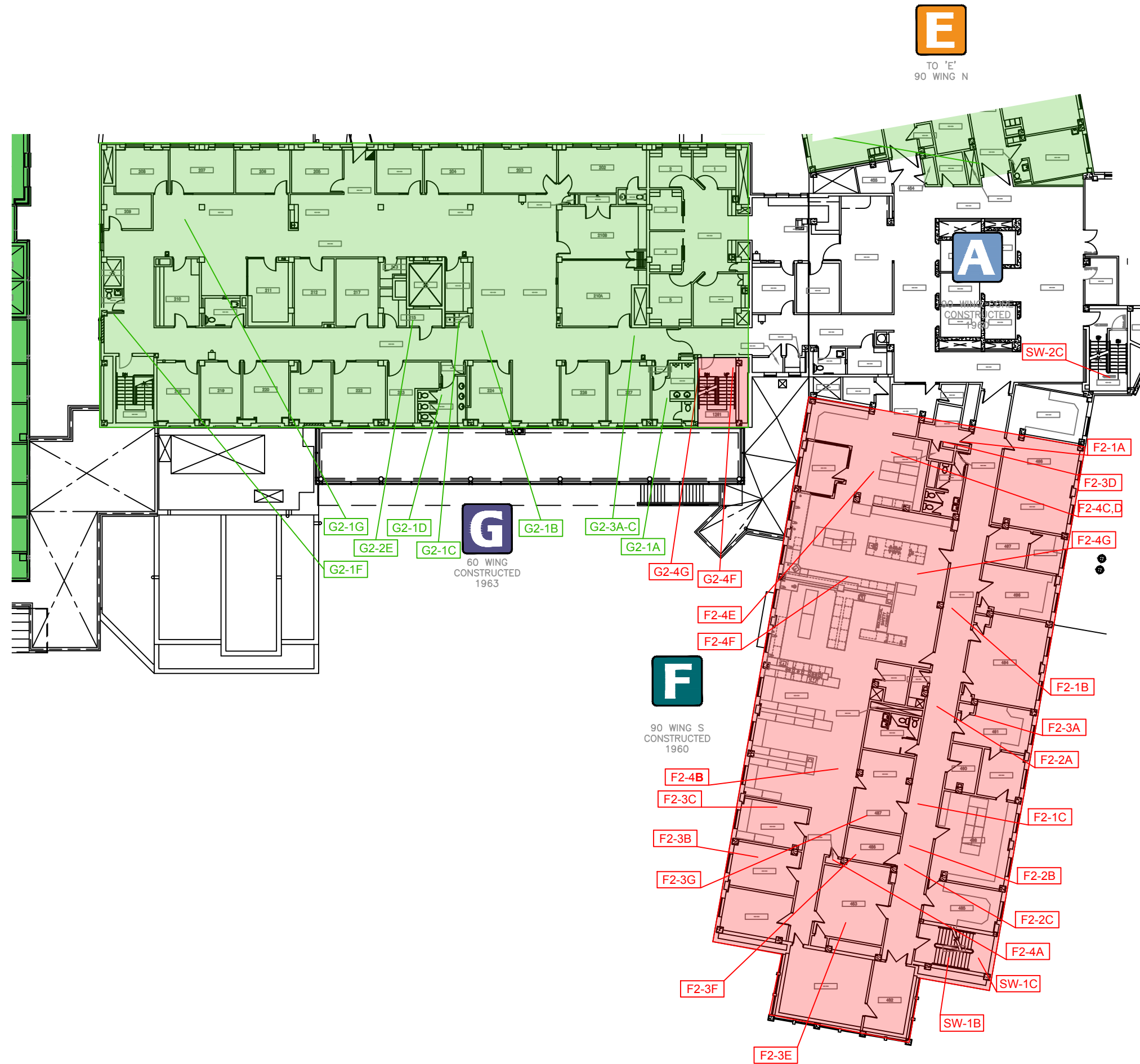
JURAVINSKI SITE

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING: LEVEL 1 SECTION 'A', 'F', AND 'G' ACM CEILING

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: DUSTIN COPELAND
DRAWN BY: MARCO MENDOZA	FILE NAME: Level 5
DRAWING NO.	

AFG-RA03B



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	3/31/2016		UPDATED BY ECOH	MM
13	6/15/2017		UPDATED BY ECOH	JK

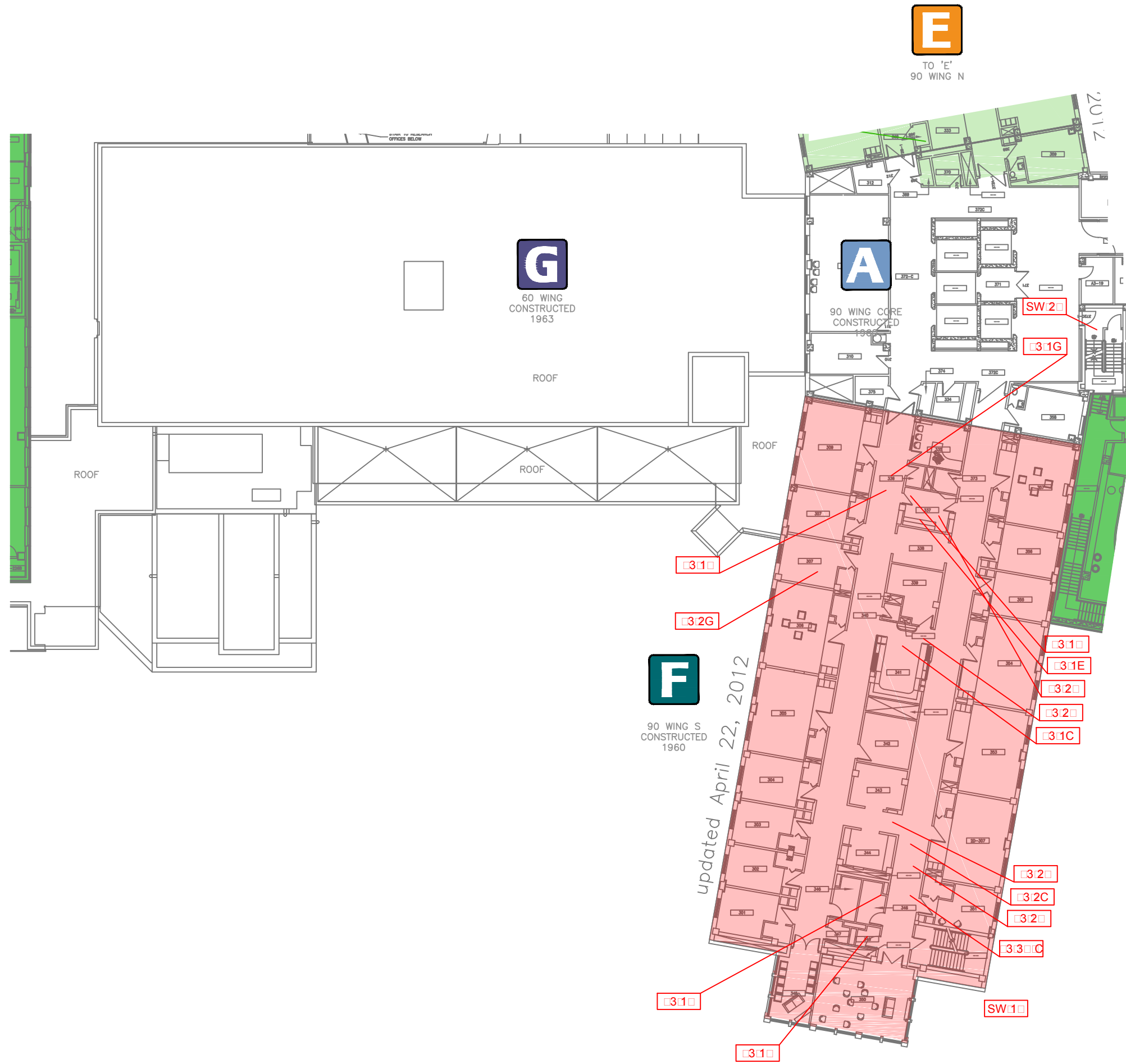
- LEGEND:
- ACM ROUGH PLASTER AND/OR PLASTER CEILING
 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

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PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY	
DRAWINGS: LEVEL 2 SECTION 'A', 'F', AND 'G' ACM CEILING	
PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: DUSTIN COPELAND
DRAWN BY: MARCO MENDOZA	FILE NAME: Level 5
DRAWING NO.	

AFG-RA04C



F
90 WING S
CONSTRUCTED
1960

A
90 WING CORE
CONSTRUCTED
1988

G
60 WING
CONSTRUCTED
1963

updated April 22, 2012

E
TO 'E'
90 WING N

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 - IF YOU SUSPECT A MATERIAL TO BE ACM IN AN AREA SHOWN TO BE FREE OF ACM, CONTACT THE ASBESTOS COORDINATOR FOR CONSULTATION.

KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	3/31/2016		UPDATED BY ECHO	MM

- LEGEND:
- ACM CEILING TILES
 - ACM PRESENT IN CEILING TILES
 - ACM PRESUMED. PROCEED WITH CAUTION.
 - NO ACM PRESENT IN PLASTER AND/OR DRYWALL JOINT COMPOUND

JURAVINSKI SITE

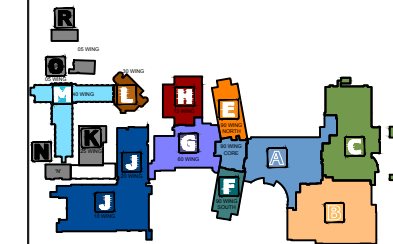
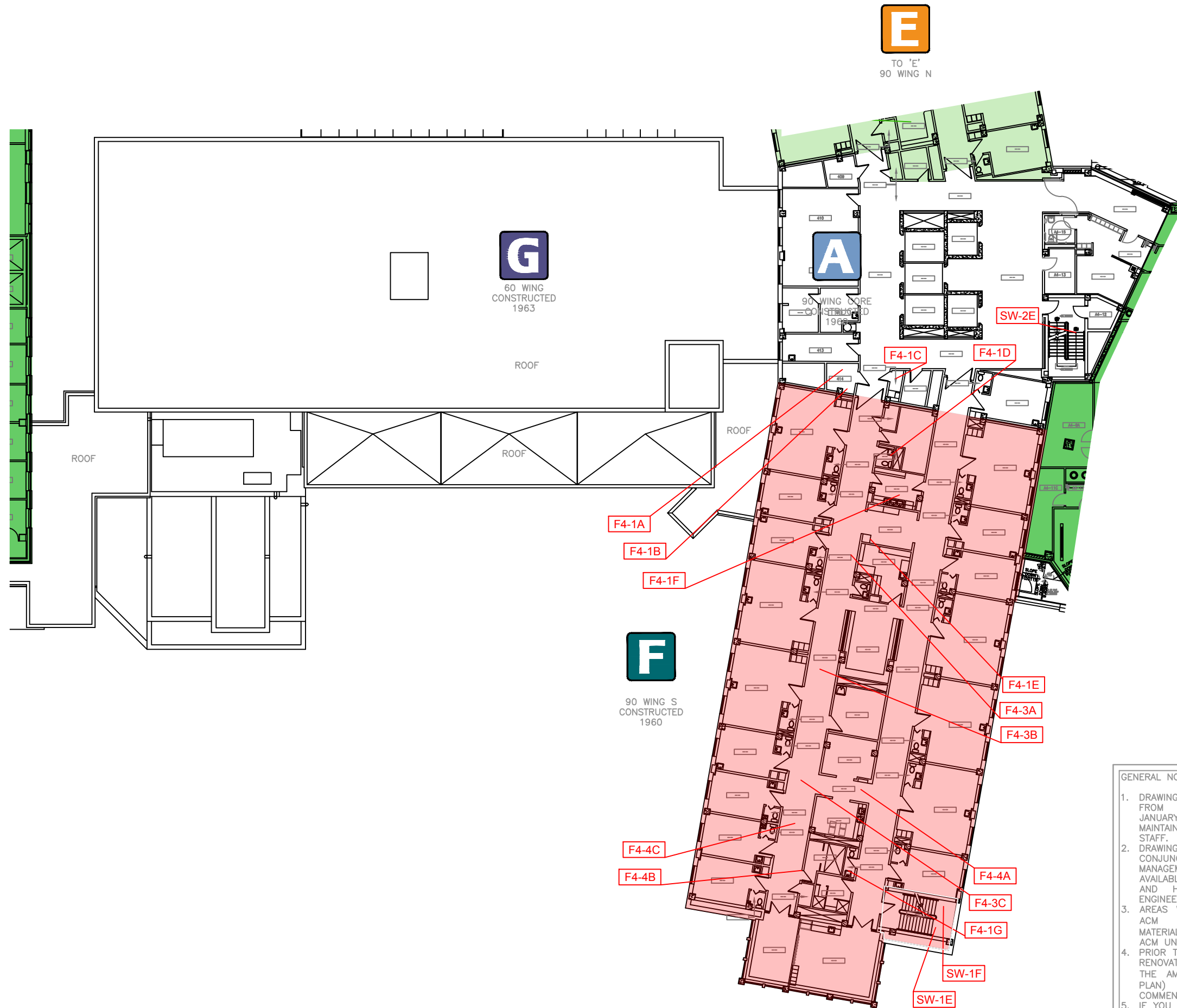
Hamilton Health Sciences
ENGINEERING SERVICES

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS: LEVEL 3 SECTION 'A', 'F', AND 'G' ACM CEILING

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: DUSTIN COPELAND
DRAWN BY: MARCO MENDOZA	FILE NAME: Level 3
DRAWING NO.	

AS-000



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	3/31/2016		UPDATED BY ECOH	MM
13	6/15/2017		UPDATED BY ECOH	JK

- LEGEND:**
- ACM ROUGH PLASTER AND/OR PLASTER CEILING
 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

- GENERAL NOTES:**
- DRAWINGS HAVE BEEN CONVERTED FROM A CONTRACTED SOURCE JANUARY 2013 AND WILL BE MAINTAINED BY HHS ENGINEERING STAFF.
 - DRAWINGS SHALL BE READ IN CONJUNCTION WITH HHS ASBESTOS MANAGEMENT PLAN AND SURVEYS AVAILABLE ON THE HHS INTRANET, AND HARDCOPY IN THE SITES ENGINEERING DEPT.
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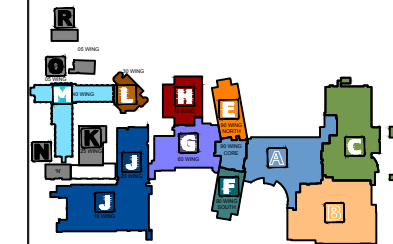
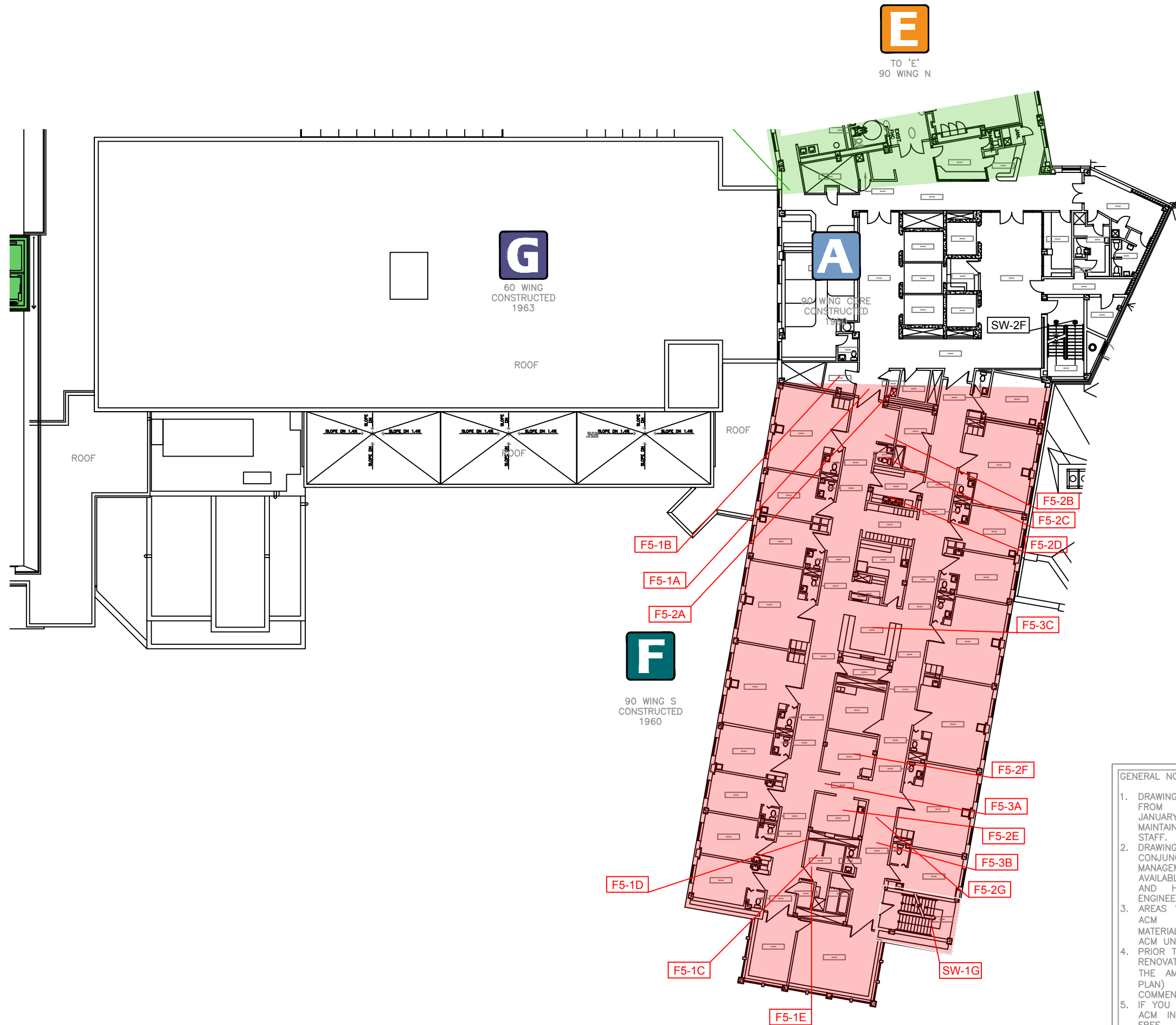
JURAVINSKI SITE

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS: LEVEL 4 SECTION 'A', 'F', AND 'G' ACM CEILING

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: DUSTIN COPELAND
DRAWN BY: MARCO MENDOZA	FILE NAME: Level 5
DRAWING NO.	

AFG-RA06C



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	3/31/2016		UPDATED BY ECOH	MM
13	6/15/2017		UPDATED BY ECOH	JK

- LEGEND:**
- ACM ROUGH PLASTER AND/OR PLASTER CEILING
 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

- GENERAL NOTES:**
- DRAWINGS HAVE BEEN CONVERTED FROM A CONTRACTED SOURCE JANUARY 2013 AND WILL BE MAINTAINED BY HHS ENGINEERING STAFF.
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JURAVINSKI SITE

Hamilton Health Sciences
ENGINEERING SERVICES

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS: LEVEL 5 SECTION 'A', 'F', AND 'G' ACM CEILING

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: DUSTIN COPELAND
DRAWN BY: MARCO MENDOZA	FILE NAME: Level 5
DRAWING NO.	

AFG-RA-07C

SHEET SIZE = ARCH D - 24" x 36" (IMPERIAL) = 610mm x 914mm (METRIC)



H

15 WING
CONSTRUCTED
1990
RENOVATED
2010

L

TO 'L'
30 WING

M

TO 'M'
40 WING

G

TO 'G'
60 WING

E

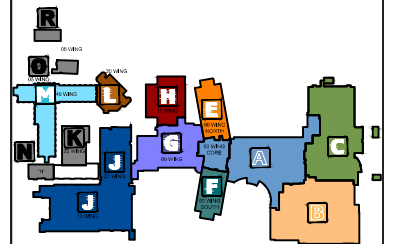
90 WING N
CONSTRUCTED
1962
RENOVATED
2012

F

TO 'F'
90 WING S

A




TO 'A'
90 WING CORE



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
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8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	3/31/2016		UPDATED BY ECHO	MM

LEGEND:

	ACM PRESENT IN PLASTER AND/OR DRYWALL JOINT COMPOUND
	ACM PRESUMED. PROCEED WITH CAUTION.
	NO ACM PRESENT

GENERAL NOTES:

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JURAVINSKI SITE



PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS:
LEVEL B
SECTION 'E' AND 'H'
ACM CEILING

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: DUSTIN COPELAND
DRAWN BY: MARCO MENDOZA	FILE NAME: Level 5

EH-RA01C



H
15 WING
CONSTRUCTED
1990
RENOVATED
2010

E
90 WING N
CONSTRUCTED
1962
RENOVATED
2012

L
TO 'L'
30 WING

M
TO 'M'
40 WING

J
TO 'J'
20 WING

J
TO 'J'
10 WING

G
TO 'G'
60 WING

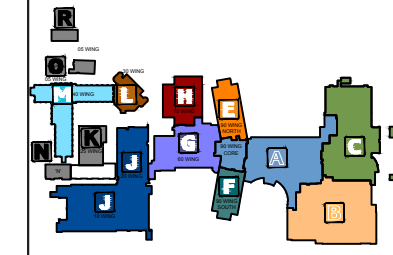
F
TO 'F'
90 WING S

A
TO 'A'
90 WING CORE

L1c

L0-01b

L0-01a



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
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7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	3/31/2016		UPDATED BY ECOH	MM
13	6/15/2017		UPDATED BY ECOH	JK

- LEGEND:
- ACM ROUGH PLASTER CEILING
 - ACM PRESUMED
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

GENERAL NOTES:

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JURAVINSKI SITE

PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS:
LEVEL 0
SECTION 'E' AND 'H'
ACM CEILING

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: DUSTIN COPELAND
DRAWN BY: MARCOS MENDOZA	FILE NAME: Level 5
DRAWING NO.	

EH-RA02C

SHEET SIZE = ARCH D - 24" x 36" (IMPERIAL) = 610mm x 914mm (METRIC)



H
15 WING
CONSTRUCTED
1998

E
90 WING N
CONSTRUCTED
1962

L
TO 'L'
30 WING

M
TO 'M'
40 WING

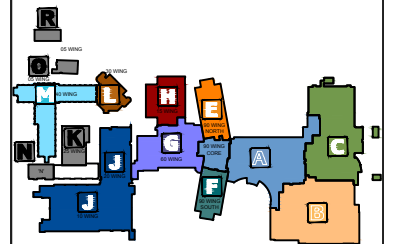
J
TO 'J'
20 WING

J
TO 'J'
10 WING

G
TO 'G'
60 WING

F
TO 'F'
90 WING S

A
TO 'A'
90 WING CORE



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
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9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	3/31/2016		UPDATED BY ECOH	MM
13	6/15/2017		UPDATED BY ECOH	JK

- LEGEND:**
- ACM ROUGH PLASTER CEILING
 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

- GENERAL NOTES:**
- DRAWINGS HAVE BEEN CONVERTED FROM A CONTRACTED SOURCE JANUARY 2013 AND WILL BE MAINTAINED BY HHS ENGINEERING STAFF.
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JURAVINSKI SITE

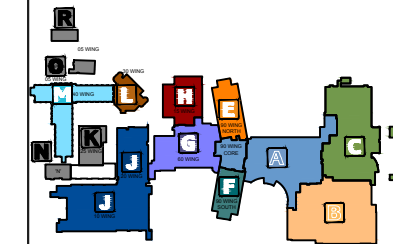
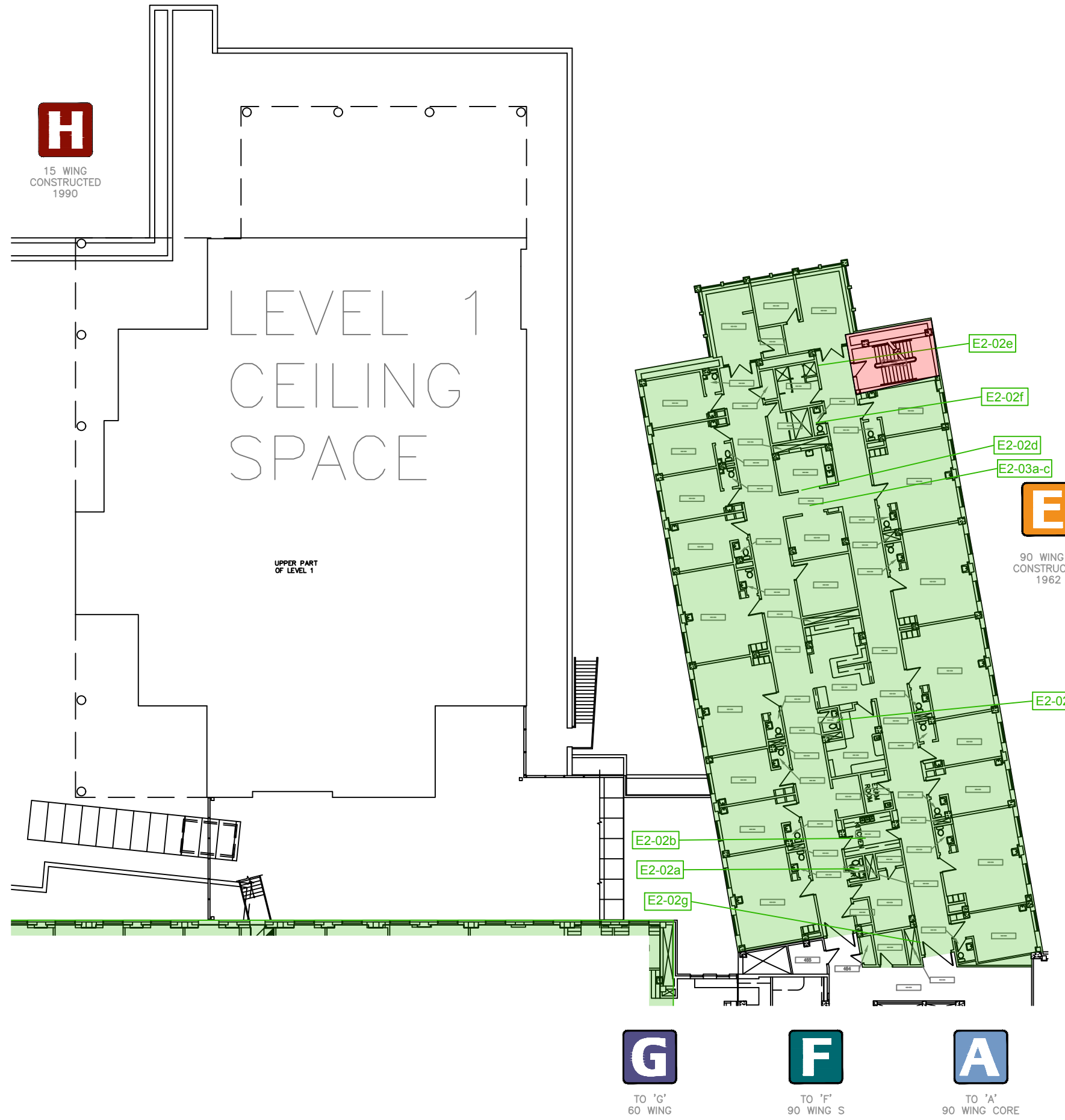
Hamilton Health Sciences
ENGINEERING SERVICES

PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS:
LEVEL 1
SECTION 'E' AND 'H'
ACM CEILING

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: DUSTIN COPELAND
DRAWN BY: MARCO MENDOZA	FILE NAME: Level 5
DRAWING NO.	

EH-RA03C



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
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2	2/1/2013		UPDATED	GS
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9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	3/31/2016		UPDATED BY ECOH	MM
13	6/15/2017		UPDATED BY ECOH	JK

- LEGEND:**
- ACM ROUGH PLASTER CEILING
 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

- GENERAL NOTES:**
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JURAVINSKI SITE

Hamilton Health Sciences
ENGINEERING SERVICES

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

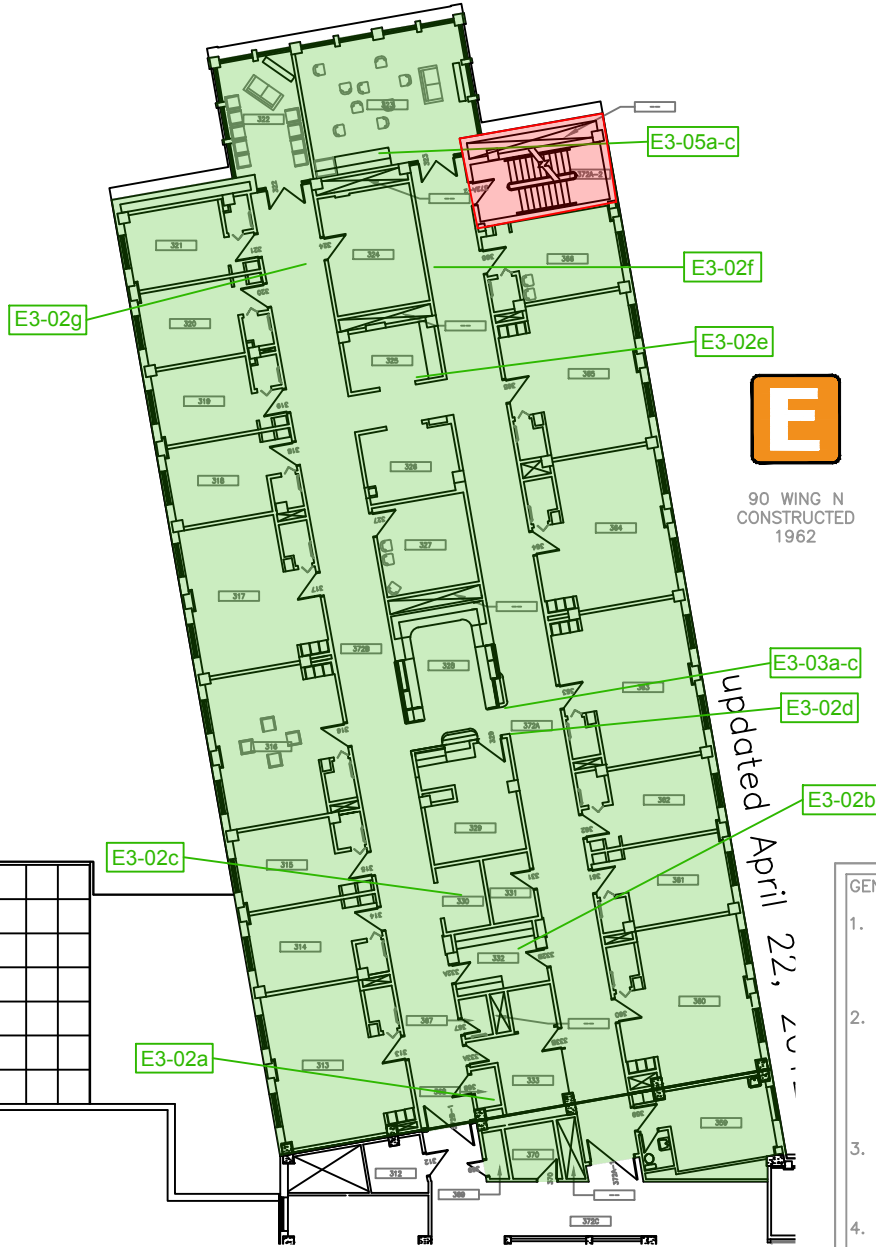
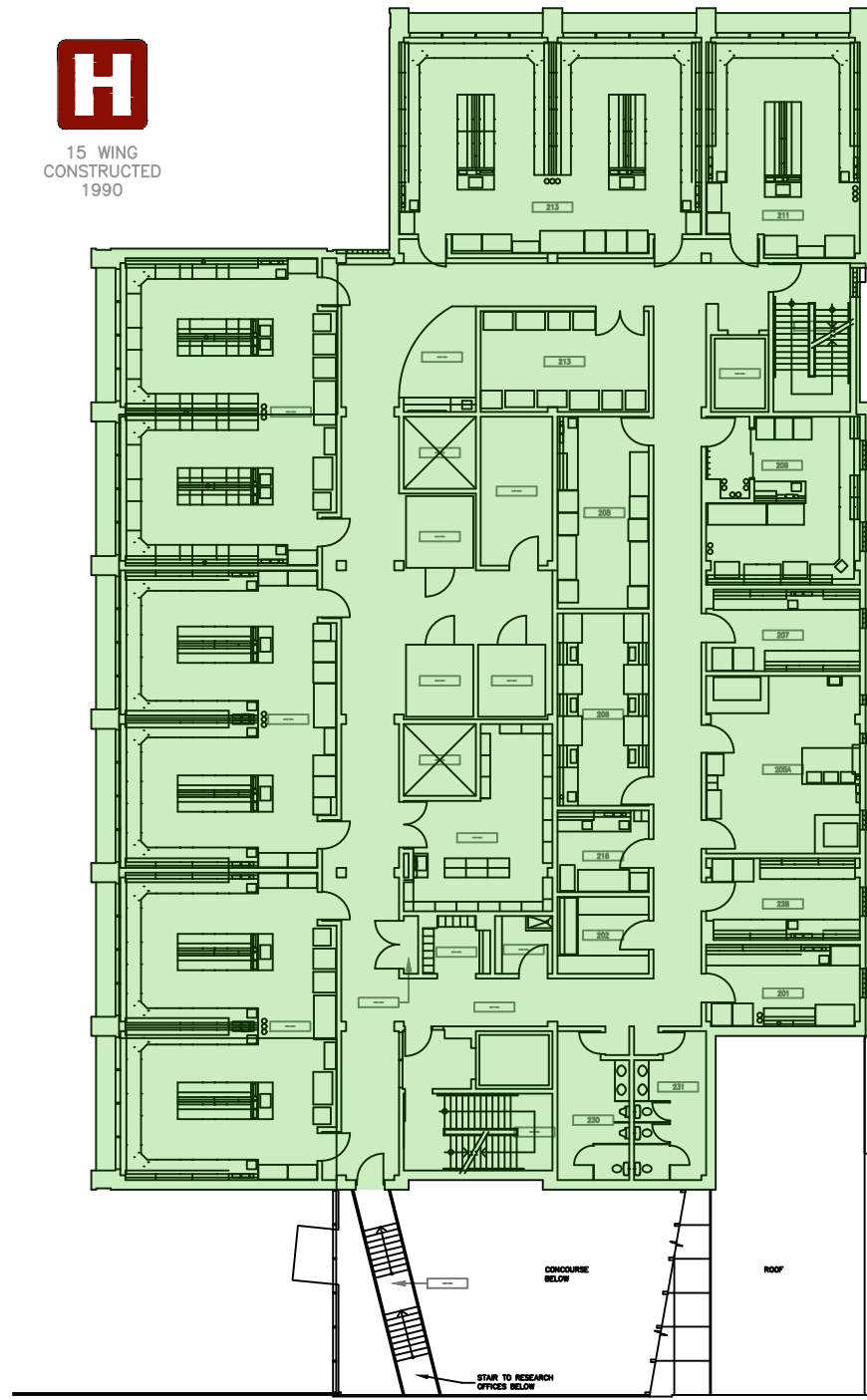
DRAWINGS: LEVEL 2 SECTION 'E' AND 'H' ACM CEILING

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: DUSTIN COPELAND
DRAWN BY: MARCO MENDOZA	FILE NAME: Level 5
DRAWING NO.	

EH-RA04C



15 WING
CONSTRUCTED
1990



90 WING N
CONSTRUCTED
1962



TO 'G'
60 WING

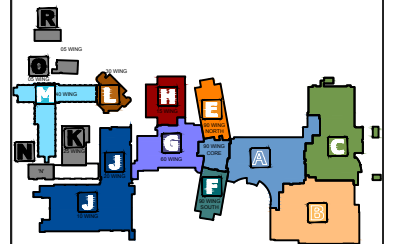


TO 'F'
90 WING S



TO 'A'
90 WING CORE

- GENERAL NOTES:
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KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	3/31/2016		UPDATED BY ECOH	MM
13	6/15/2017		UPDATED BY ECOH	JK

- LEGEND:
- ACM ROUGH PLASTER CEILING
 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

JURAVINSKI SITE



PROJECT:
JURAVINSKI HOSPITAL AND
CANCER CENTER - ASBESTOS
MANAGEMENT PLAN AND SURVEY

DRAWINGS:
LEVEL 3
SECTION 'E' AND 'H'
ACM CEILING

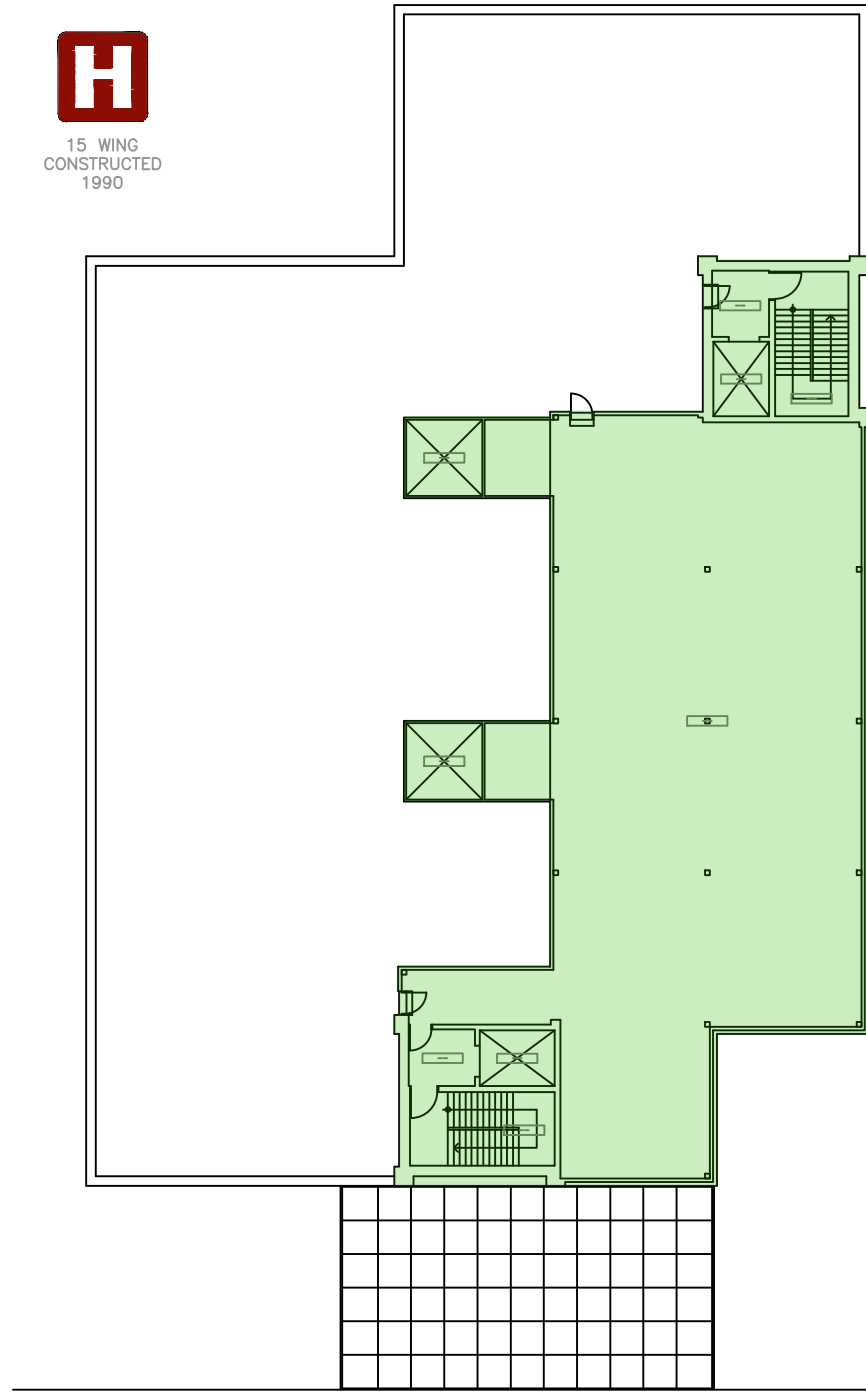
PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: DUSTIN COPELAND
DRAWN BY: MARCO MENDOZA	FILE NAME: Level 5
DRAWING NO.	

EH-RA05C

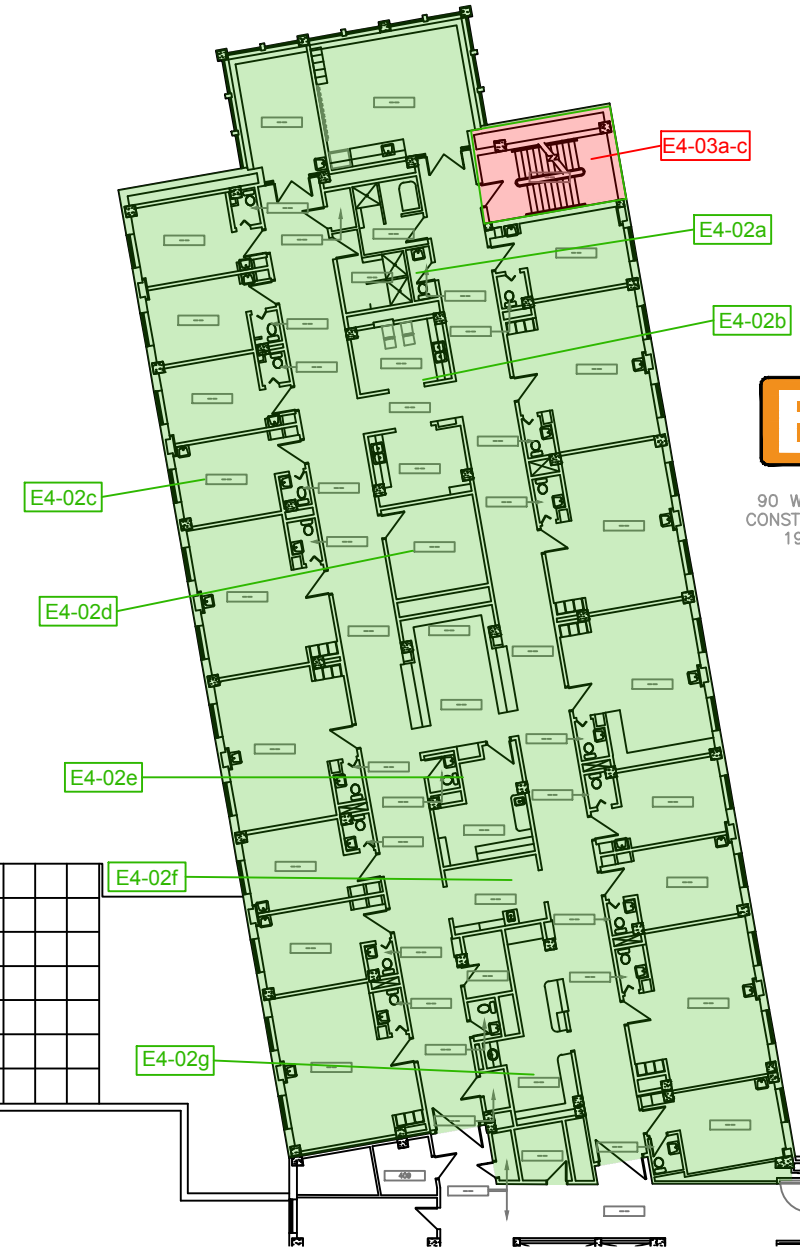
SHEET SIZE = ARCH D - 24" x 36" (IMPERIAL) - 610mm x 914mm (METRIC)



15 WING
CONSTRUCTED
1990



90 WING N
CONSTRUCTED
1962



TO 'G'
60 WING



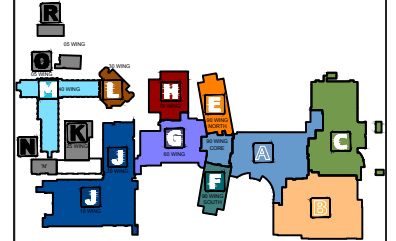
TO 'F'
90 WING S



TO 'A'
90 WING CORE

GENERAL NOTES:

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6. AREAS DENOTED AS "SUSPECT MATERIAL" SHOULD BE PRESUMED TO CONTAIN ASBESTOS IN THE ABSENCE OF ADDITIONAL SAMPLING THAT PROVES OTHERWISE.



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	3/31/2016		UPDATED BY ECOH	MM
13	6/15/2017		UPDATED BY ECOH	JK

- LEGEND:**
- ACM ROUGH PLASTER CEILING
 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

JURAVINSKI SITE



PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS:
LEVEL 4
SECTION 'E' AND 'H'
ACM CEILING

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: DUSTIN COPELAND
DRAWN BY: MARCOS MENDOZA	FILE NAME: Level 5
DRAWING NO.	

EH-RA06C

SHEET SIZE = ARCH D - 24" x 36" (IMPERIAL) = 610mm x 914mm (METRIC)

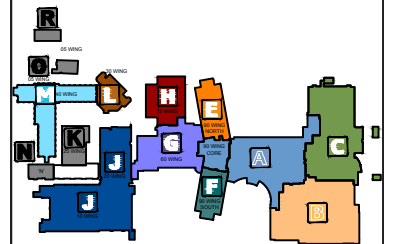
H
15 WING
CONSTRUCTED
1990



G
TO 'G'
60 WING

F
TO 'F'
90 WING S

A
TO 'A'
90 WING CORE



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
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10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	3/31/2016		UPDATED BY ECOH	MM
13	6/15/2017		UPDATED BY ECOH	JK

- LEGEND:**
- ACM ROUGH PLASTER CEILING
 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

- GENERAL NOTES:**
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JURAVINSKI SITE

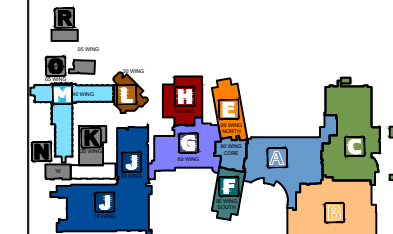
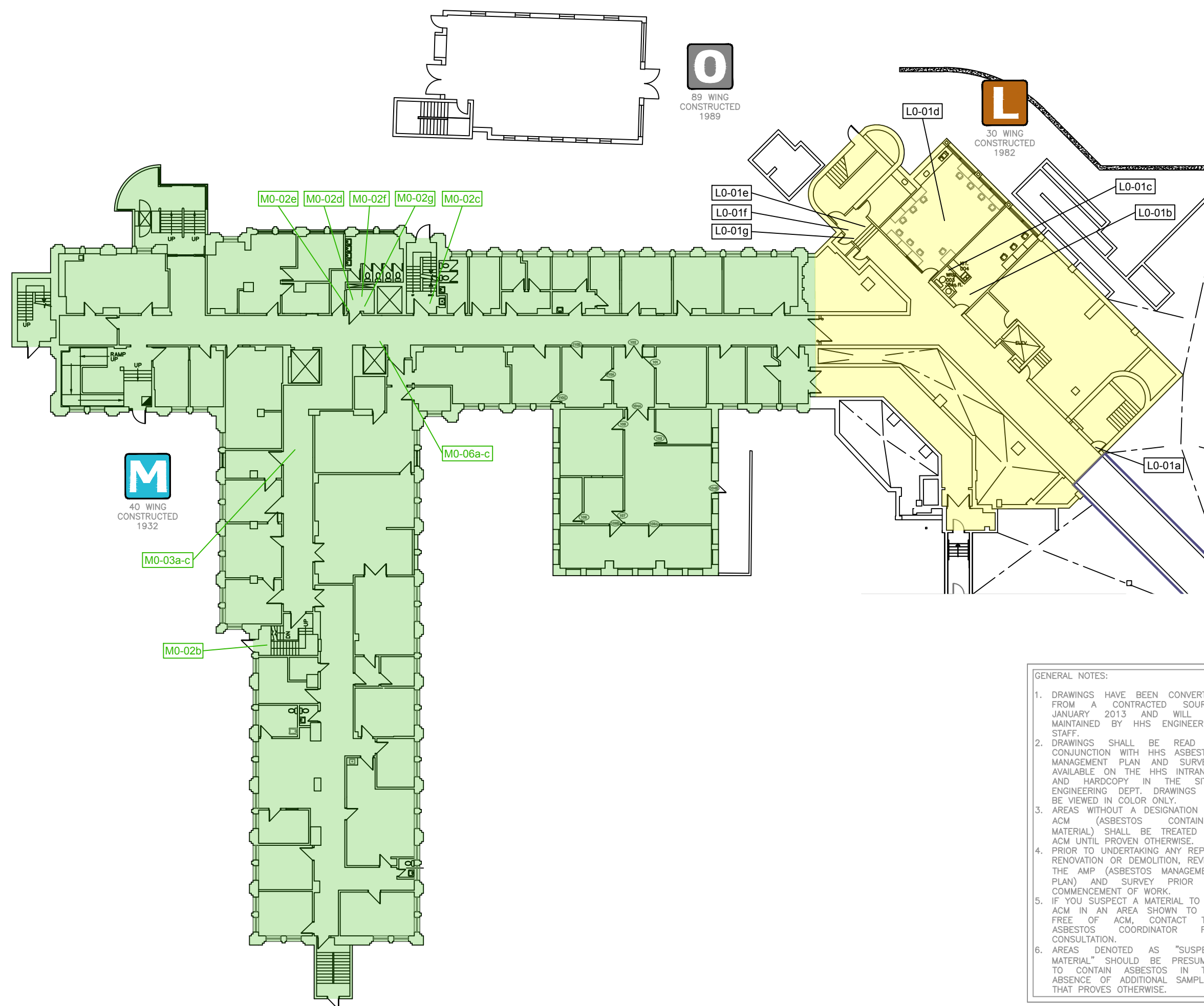


PROJECT:
JURAVINSKI HOSPITAL AND
CANCER CENTER - ASBESTOS
MANAGEMENT PLAN AND SURVEY

DRAWINGS:
LEVEL 5
SECTION 'E' AND 'H'
ACM CEILING

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: DUSTIN COPELAND
DRAWN BY: MARCO MENDOZA	FILE NAME: Level 5
DRAWING NO.	

EH-RA-07C



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
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8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	3/31/2016		UPDATED BY ECOH	MM
13	6/15/2017		UPDATED BY ECOH	JK

- LEGEND:**
- ACM PRESENT
 - SUSPECT ACM DJC ON CEILING
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS

- GENERAL NOTES:**
- DRAWINGS HAVE BEEN CONVERTED FROM A CONTRACTED SOURCE JANUARY 2013 AND WILL BE MAINTAINED BY HHS ENGINEERING STAFF.
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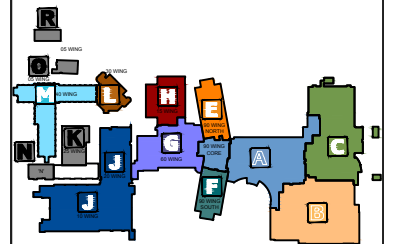
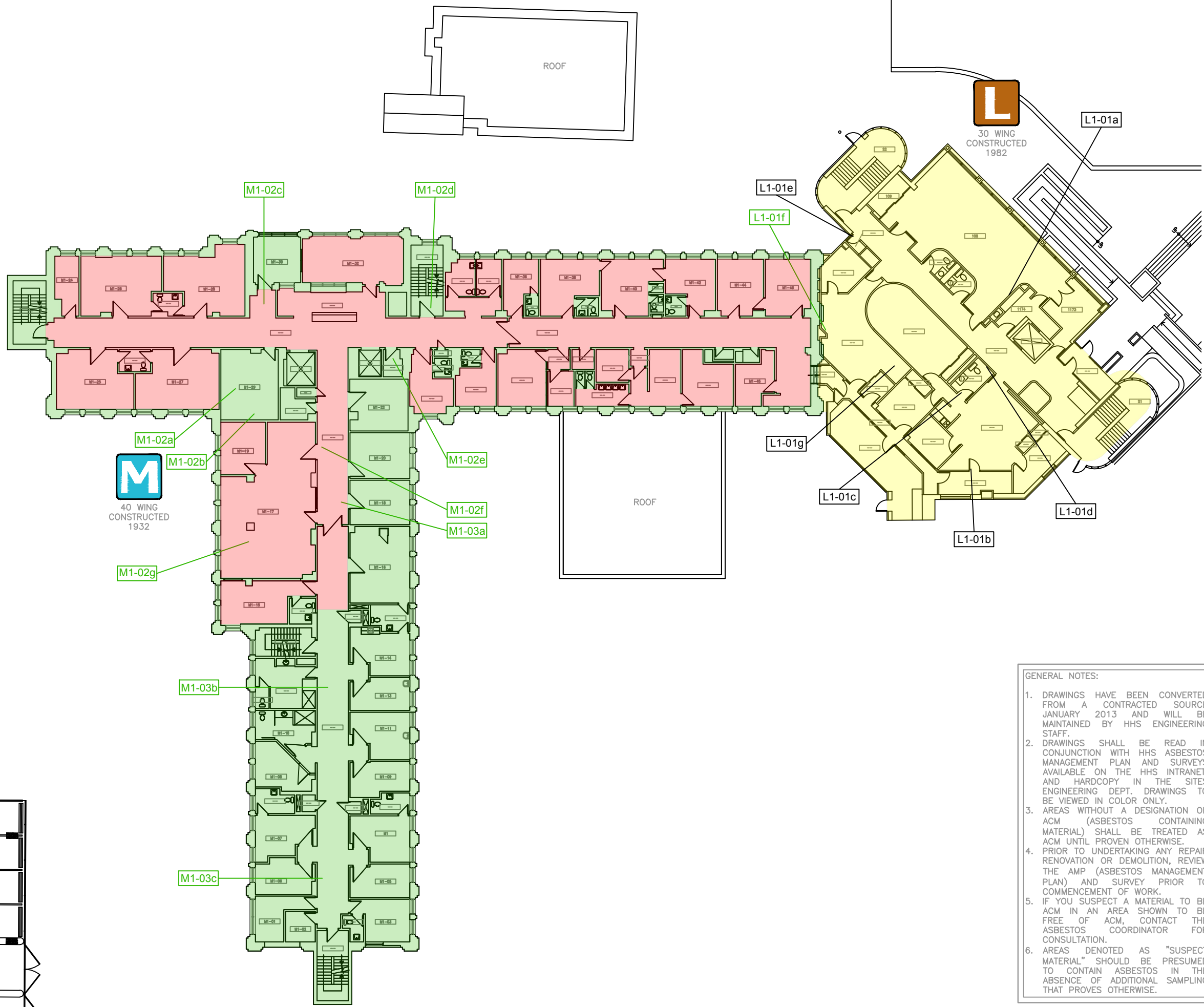
JURAVINSKI SITE

PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS: LEVEL 0 SECTIONS 'L', 'M', AND 'O' ACM CEILING

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: DUSTIN COPELAND
DRAWN BY: MARCO MENDOZA	FILE NAME: Level 0
DRAWING NO.	

LMO-RA2C



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	3/31/2016		UPDATED BY ECOH	MM
13	6/15/2017		UPDATED BY ECOH	JK

- LEGEND:**
- ACM PRESENT ON CEILING
 - SUSPECT ACM DJC ON CEILING
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS
 - ACM CEILING TILES

- GENERAL NOTES:**
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JURAVINSKI SITE

Hamilton Health Sciences
ENGINEERING SERVICES

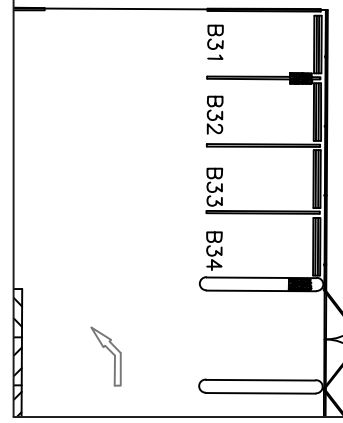
PROJECT: JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

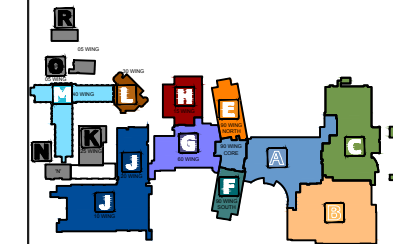
DRAWINGS: LEVEL 1 SECTIONS 'L', 'M', AND 'O' ACM CEILING

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: DUSTIN COPELAND
DRAWN BY: MARCO MENDOZA	FILE NAME: Level 5
DRAWING NO.	

LMO-RA03C

SHEET SIZE = ARCH D - 24" x 36" (IMPERIAL) - 610mm x 914mm (METRIC)



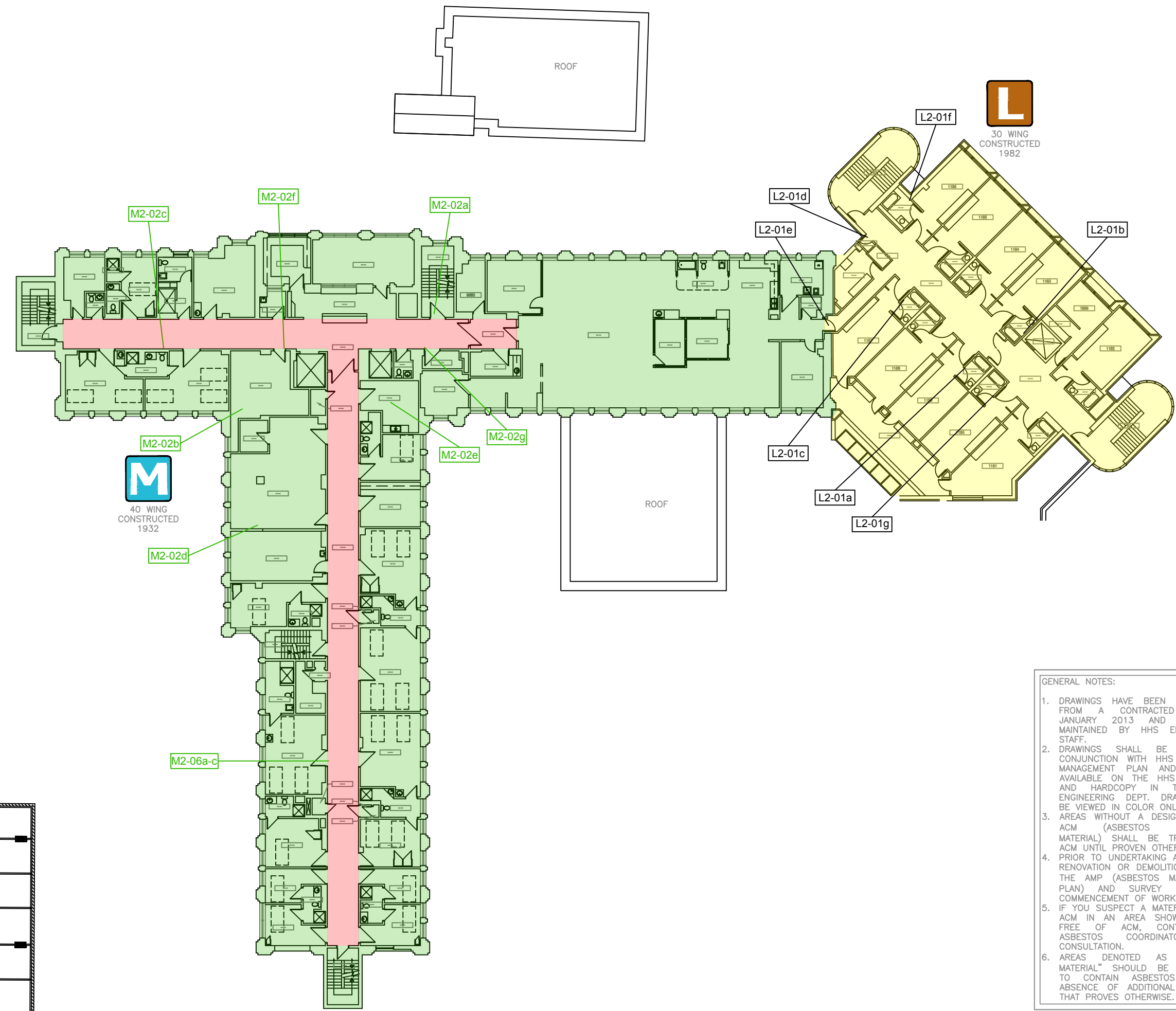


KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	3/31/2016		UPDATED BY ECOH	MM
13	6/15/2017		UPDATED BY ECOH	JK

LEGEND:

	ACM PRESENT
	SUSPECT ACM DJC ON CEILING
	NO ACM PRESENT
	ACM ABATED AREAS AS PER HHS RECORDS
	ACM CEILING TILE MASTIC ON CEILING ABOVE SUSPENDED



M
40 WING
CONSTRUCTED
1932

L
30 WING
CONSTRUCTED
1982

GENERAL NOTES:

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JURAVINSKI SITE

Hamilton Health Sciences
ENGINEERING SERVICES

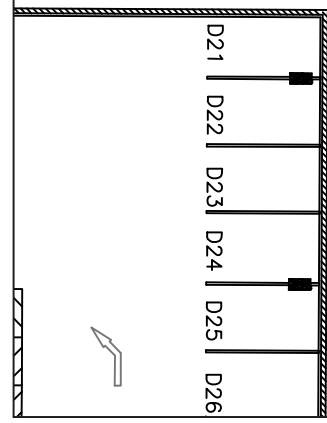
PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER - ASBESTOS MANAGEMENT PLAN AND SURVEY

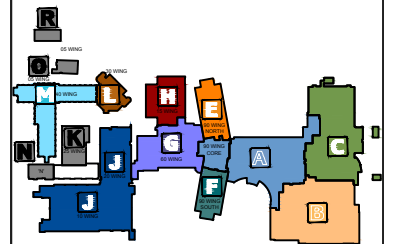
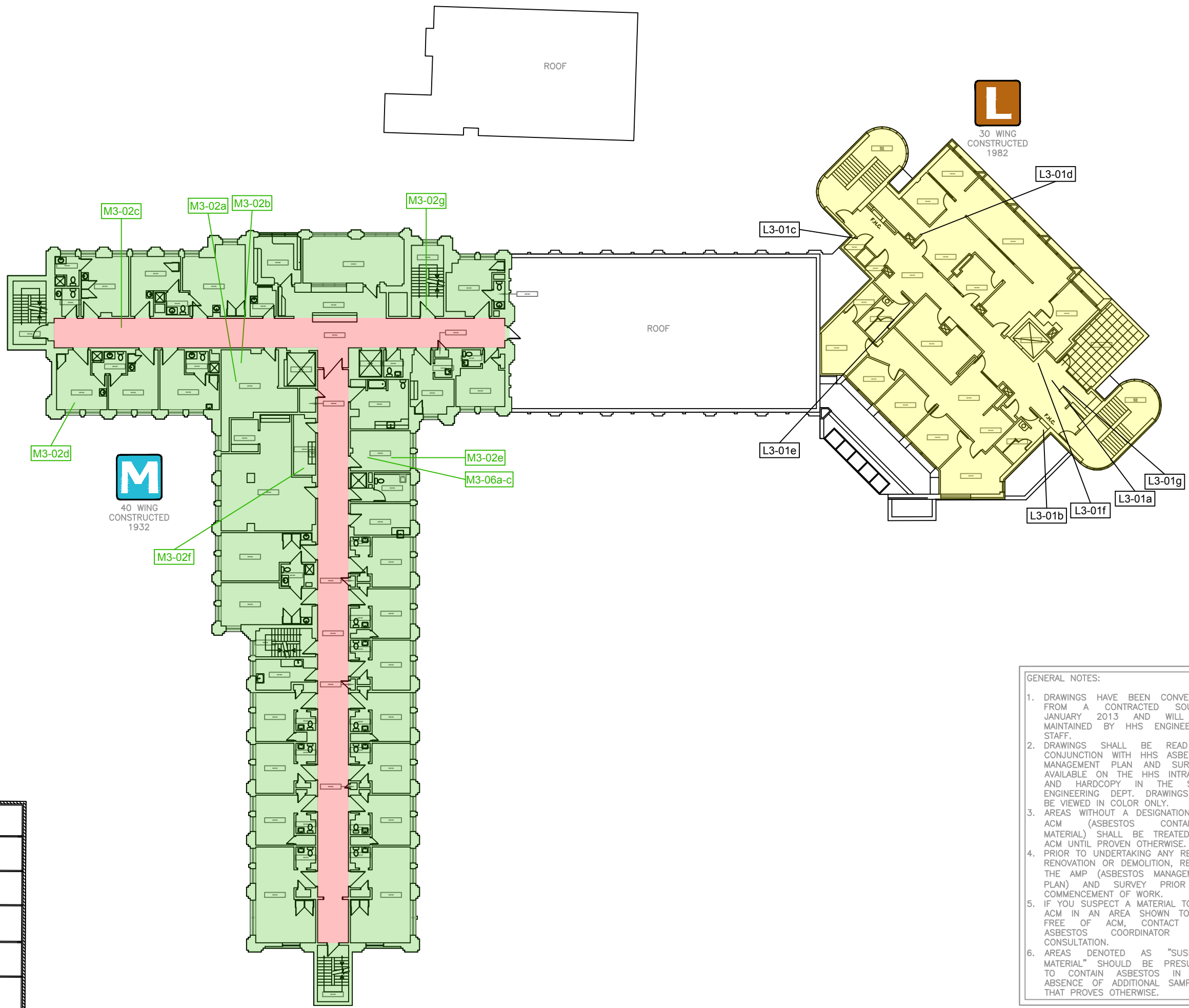
DRAWINGS:
LEVEL 2
SECTIONS 'L', 'M', AND 'O'
ACM CEILING

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: DUSTIN COPELAND
DRAWN BY: MARCO MENDOZA	FILE NAME: Level 5
DRAWING NO.	

LMO-RA04C

SHEET SIZE = ARCH 'D' - 24" x 36" (IMPERIAL) - 610mm x 914mm (METRIC)





KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	3/31/2016		UPDATED BY EDOH	MM
13	6/15/2017		UPDATED BY EDOH	JK

- LEGEND:**
- ACM PRESENT
 - SUSPECT ACM
 - NO ACM PRESENT
 - ACM ABATED AREAS AS PER HHS RECORDS
 - ACM CEILING TILE MASTIC

- GENERAL NOTES:**
- DRAWINGS HAVE BEEN CONVERTED FROM A CONTRACTED SOURCE JANUARY 2013 AND WILL BE MAINTAINED BY HHS ENGINEERING STAFF.
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JURAVINSKI SITE

PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING:
LEVEL 3 SECTIONS 'L', 'M', AND 'O' ACM CEILING

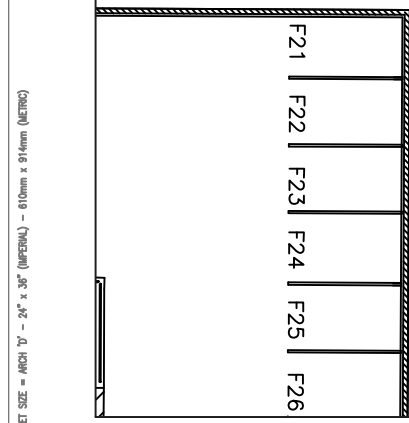
PLOT DATE: _____ DEPARTMENT: ENGINEERING

SCALE: N.T.S. SUPERVISOR: DUSTIN COPELAND

DRAWN BY: MARCO MENDOZA FILE NAME: Level 3

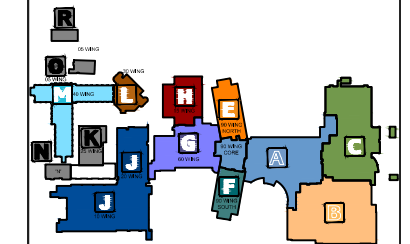
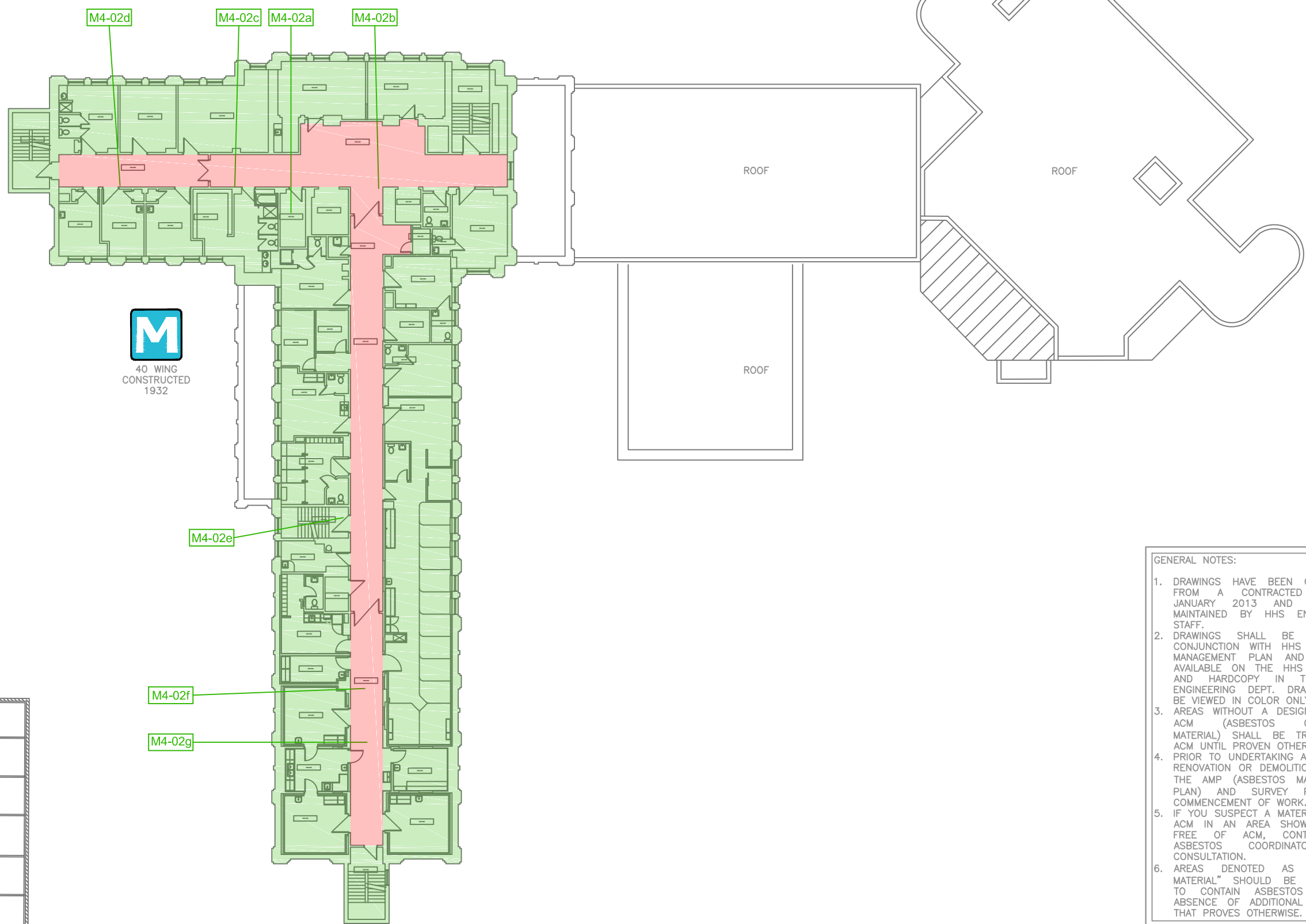
DRAWING NO. _____

LMO-RA05C



SHEET SIZE = ARCH D - 24" x 36" (IMPERIAL) - 610mm x 914mm (METRIC)

SHEET SIZE = ARCH D - 24" x 36" (IMPERIAL) = 610mm x 914mm (METRIC)



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
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8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	3/31/2016		UPDATED BY ECHO	MM

- LEGEND:**
- ACM PRESENT IN CEILING TILES
 - ACM PRESUMED. PROCEED WITH CAUTION.
 - NO ACM PRESENT IN PLASTER AND/OR DRYWALL JOINT COMPOUND

- GENERAL NOTES:**
- DRAWINGS HAVE BEEN CONVERTED FROM A CONTRACTED SOURCE JANUARY 2013 AND WILL BE MAINTAINED BY HHS ENGINEERING STAFF.
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JURAVINSKI SITE

PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS:
LEVEL 4
SECTIONS 'L', 'M', AND 'O'
ACM CEILING

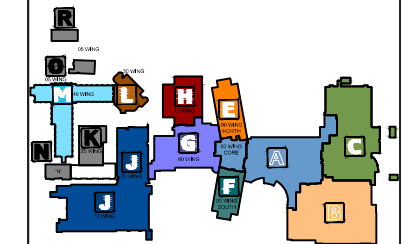
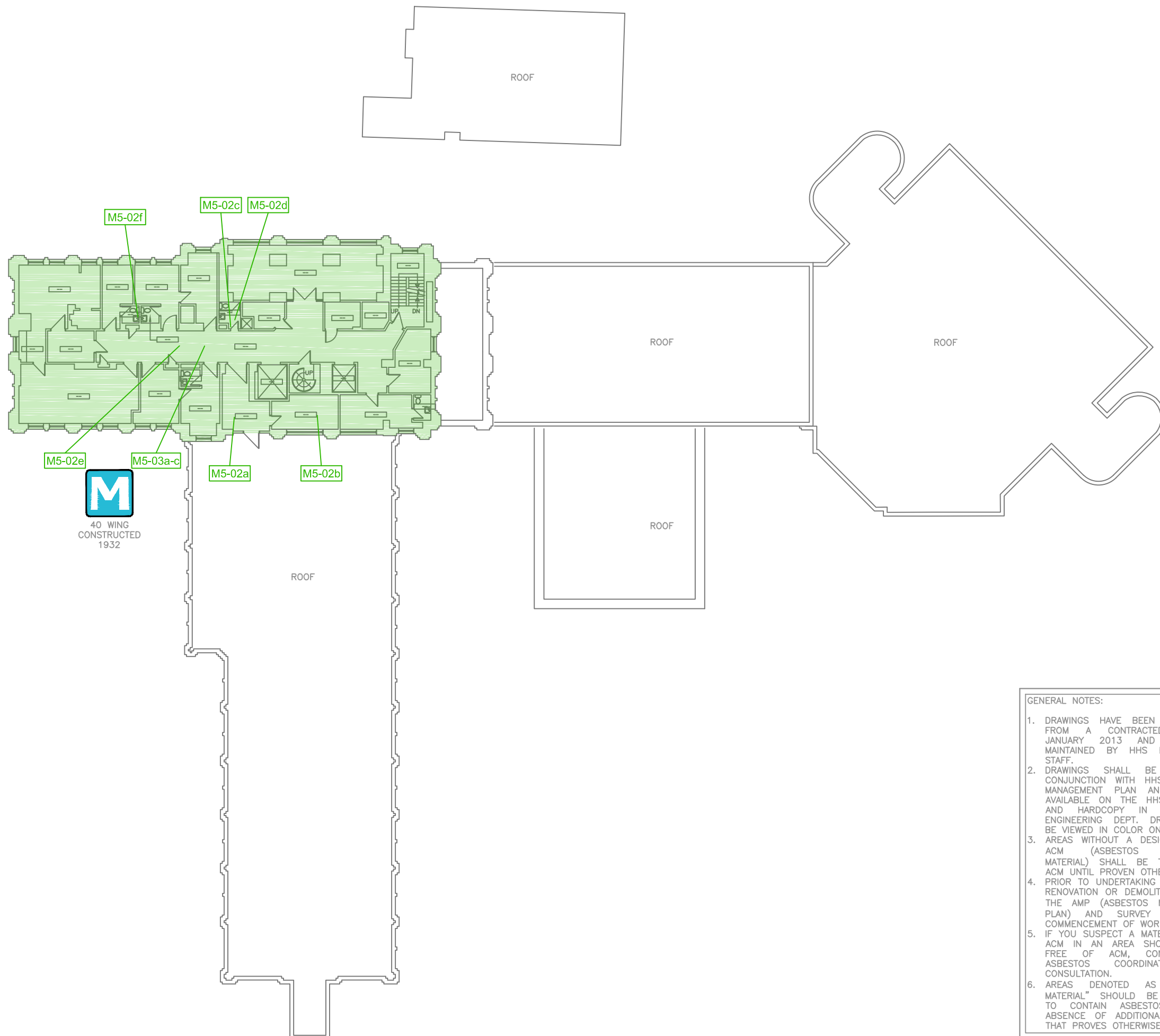
PLOT DATE: _____ **DEPARTMENT:**
ENGINEERING

SCALE: N.T.S. **SUPERVISOR:**
DUSTIN COPELAND

DRAWN BY: MARCO MENDOZA **FILE NAME:**
Level 5

DRAWING NO.: _____

LMO-RA06C



KEY PLAN N.T.S.

NO.	DATE	M/D/Y	REVISIONS	BY
1	1/1/2013		UPDATED	GS
2	2/1/2013		UPDATED	GS
3	3/1/2013		UPDATED	GS
4	4/1/2013		REVIEWED WITHOUT REVISION	GS
5	5/1/2013		REVIEWED WITHOUT REVISION	GS
6	6/1/2013		REVIEWED WITHOUT REVISION	GS
7	7/1/2013		REVIEWED WITHOUT REVISION	GS
8	8/1/2013		REVIEWED WITHOUT REVISION	GS
9	9/1/2013		REVIEWED WITHOUT REVISION	GS
10	10/1/2013		REVIEWED WITHOUT REVISION	GS
11	11/1/2013		REVIEWED WITHOUT REVISION	GS
12	3/31/2016		UPDATED BY ECHO	MM

- LEGEND:**
- ACM PRESENT IN PLASTER AND/OR DRYWALL JOINT COMPOUND AND/OR CEILING TILES
 - ACM PRESUMED. PROCEED WITH CAUTION.
 - NO ACM PRESENT

- GENERAL NOTES:**
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JURAVINSKI SITE

PROJECT:
JURAVINSKI HOSPITAL AND CANCER CENTER – ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWINGS:
LEVEL 5
SECTIONS 'L', 'M', AND 'O'
ACM CEILING

PLOT DATE:	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: DUSTIN COPELAND
DRAWN BY: MARCO MENDOZA	FILE NAME: Level 5

LMO-RA07C

APPENDIX 3

CEILING TILE INDEX





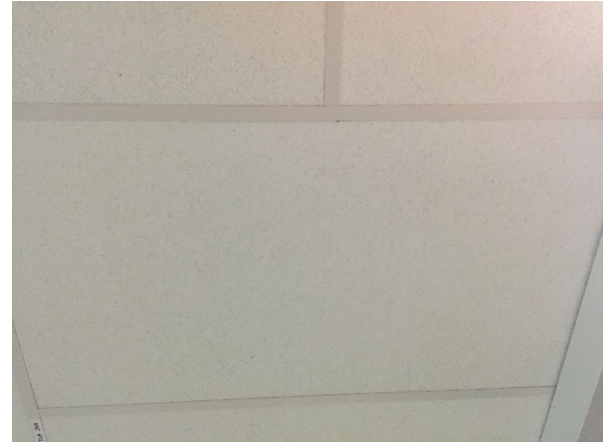
TABLE V Summary of Ceiling Tiles (CT)				
MIN	Description	Sample Number	Results	Photograph
CT1	24" x 24" Fleck and Pinhole	17429-JH- M0-3A to 03C	None Detected	
CT2	24" x 24" Small + Large Random Pinhole	17429-JH- M2-06A to 06C	None Detected	
CT3	24" x 48" Textured (Popcorn)	17429-JH- F0-07A to 07C	None Detected	






TABLE V Summary of Ceiling Tiles (CT)				
MIN	Description	Sample Number	Results	Photograph
CT4	24" x 24" Medium Pinhole	17429-JH- F0-08B	None Detected	
CT5	24" x 24" Medium Pinhole and Flecks	17429-JH- F1-01A to 01C	None Detected	
CT6	24" x 48" Textured Large and Medium Pinholes	17429-JH- F1-03A to 03C	None Detected	






TABLE V Summary of Ceiling Tiles (CT)				
MIN	Description	Sample Number	Results	Photograph
CT7	24" x 48" Texture with Small Pinholes	17429-JH- F1-04A to 04C	None Detected	
CT8	24" x 24" Large and Small Clustered Pinholes	17429-JH- E1-03A to 03C	None Detected	
CT9	24" x 24" Random Crows Feet and Small Pinholes	17429-JH- E2-03A to 03C	None Detected	







TABLE V Summary of Ceiling Tiles (CT)				
MIN	Description	Sample Number	Results	Photograph
CT10	24" x 24" Small and Extra Small Random Fissures	17429-JH- E3-05A to 05C	None Detected	
CT11	24" x 24" Scattered Large and Small Pinholes	17429-JH- E5-03A to 03C	None Detected	
CT12	24" x 24" Large Fissure and Pinholes – M- Wing 1 st Floor	Previously Sampled in 2008 – 053A to 053C	0.5-5% Chrysotile <0.5% Amosite	



TABLE V Summary of Ceiling Tiles (CT)				
MIN	Description	Sample Number	Results	Photograph
CT13	24" x 24" Random Pinhole Pattern	17429-JH- F5-03A to 03C	None Detected	

APPENDIX V
Hazardous Building Materials Assessment Report – Concession Street
Parking Garage



May 11, 2018

Hamilton Health Sciences
Juravinski Hospital
711 Concession Street
Hamilton, Ontario L8V 5C2

E-mail: pavlidan@hpsc.com

Attention: Daniela Pavlich
Project Construction Manager

Re: Hazardous Building Materials Assessment Report
Juravinski Hospital Concession Street Parking Garage, 711 Concession Street, Hamilton,
Ontario
Pinchin File: 217426.017

1.0 INTRODUCTION AND SCOPE

Hamilton Health Sciences (Client) retained Pinchin Ltd. (Pinchin) to conduct a hazardous building materials assessment of the Parking Garage located at Juravinski Hospital, 711 Concession Street, Hamilton, Ontario. This letter intends to provide a summary of the findings from the assessment, interpretation of analytical results and recommendations.

The field work was performed by Robert Bertin-Fenney, Project Technologist on April 30, 2018. The surveyor was accompanied by Vanessa McDonald of Hamilton Health Sciences.

2.0 METHODOLOGY

Methodology for the assessment was outlined in the proposal issued to the Client.



3.0 ANALYTICAL SAMPLE RESULTS

Analytical samples results are present in Appendix I.

4.0 DRAWINGS

Drawing are present in Appendix II.

5.0 SUMMARY OF FINDINGS

5.1 Asbestos

5.1.1 Suspect Building Materials Not Found

The following types of building materials may historically contain asbestos but were not observed in the assessed work areas or have been confirmed to be non-asbestos by either visual confirmation or the date of installation and are not discussed in the summary of findings below:

- Spray-on fireproofing or thermal insulation
- Texture finishes (acoustic/decorative)
- Plaster
- Asbestos cement products (e.g. Transite)
- Vinyl sheet flooring
- Vinyl floor tiles and mastic

5.1.2 Suspect Building Materials Found and Sampled

White caulking, containing chrysotile asbestos, is present on the eavestrough of the Level R Elevator Lobby Roof and panels in the middle of Level R (sample 0003A-C). White caulking is non-friable and is in good condition. There is approximately 250 linear feet of caulking present.

Non-asbestos black caulking is present on metal panels of the glass curtain wall in the Level R Elevator Lobby (sample 0001A-C).

Non-asbestos pinkish caulking is present under grey caulking on masonry wall caps throughout the assessed area (sample 0002A-C).

Non-asbestos black putty is present between the metal frame and glass of the glass curtain wall in the Level R Elevator Lobby (sample 0004A-C).

Non-asbestos white caulking is present around cast iron vent pipe on Level 2 (sample 0005A-C).

Non-asbestos drywall joint compound is present on drywall walls within the Washroom on Level 1 (sample 0006A-C).



Non-asbestos grey caulking is present on masonry wall caps throughout the assessed area (sample 0007A-C).

Non-asbestos grey caulking is present around pane window in the Level 1 Elevator Lobby (sample 0008A-C).

Non-asbestos black putty is present between the metal frame and glass of the Office window within the Level 1 Elevator Lobby (sample 0009A-C).

Non-asbestos black exterior caulking is present on metal panels of the Level R Elevator Lobby (sample 0010A-C).

Non-asbestos off white caulking is present around the metal door frame of the Washroom on Level 1 (sample 0011A-C).

Non-asbestos off white expansion caulking is present at control joint throughout the assessed area (sample 0012A-C).

Pipes are either uninsulated or insulated with non-asbestos fibreglass insulation and jacketed with metal or PVC.

Ducts are either uninsulated or insulated with non-asbestos fibreglass and jacketed with canvas.

Destructive testing was conducted of masonry block walls. The masonry block walls were penetrated in 2 locations, loose fill vermiculite was not observed. The locations of destructive testing have been indicated on the drawings in Appendix II.

Presumed non-asbestos 24" x 48" lay-in ceiling tiles, based on date of manufacture (October 2012) are present within the Level 1 Washroom and the Office within the Level 1 Elevator Lobby. The tiles were manufactured after asbestos was stopped being used in acoustic ceiling tiles.

Presumed non-asbestos firestopping, based on nature of material (mortar) is present within the Parking Office.

Presumed non-asbestos caulking, based on nature of material (silicone) is present around the light post on Level R.

Presumed non-asbestos duct mastic, based on nature of material (silicone) is present on duct work outside of the Parking Office.



Asbestos-containing white caulking on eavestrough, Level R Elevator Lobby Roof



Asbestos-containing white caulking on panels, Level R

5.1.3 Presumed Asbestos Materials

A number of materials which might contain asbestos were not sampled during this assessment due to limitations in scope and methodology. Where present, these materials are presumed to contain asbestos until otherwise proven by sampling and analysis.

Materials presumed to contain asbestos include:

- Concrete floor levelling compound
- Elevator and lift brakes
- Electrical components or wiring within control centers, breakers, motors or lights, insulation on wiring

5.2 Lead

5.2.1 Paints and Surface Coatings

The following table summarizes the analytical results for paints sampled and locations.

Sample Number	Colour, Substrate Description, Photo	Locations	Lead (%)
L001	Blue paint on metal elevator structure	Elevator Shaft	0.0051
L002	White paint on metal structure	North side of Parking Garage	<0.0073
L003	Red paint on concrete	Level 1	<0.0058

Sample Number	Colour, Substrate Description, Photo	Locations	Lead (%)
L004	White paint on concrete	Level 1	<0.0078
L005	Yellow paint on metal door	Level 1 Washroom	0.0086
L006	Light beige paint on drywall	Level 1 Washroom	<0.069
L007	Blue paint on cast iron vent pipe	Level 2	0.0072
L008	Pink paint on metal door	Level R Elevator Lobby	<0.0079
L009	Light blue paint on metal door	Level 5 Elevator Lobby	<0.0064
L010	Red paint on metal frame	Level 4 Elevator Lobby	<0.0077
L011	Blue paint on metal door	Level 3 Elevator Lobby	<0.0064
L012	Green paint on metal door	Level 2 Elevator Lobby	<0.0071
L013	Beige paint on metal door	Parking Office	<0.0065
L014	Orange paint on metal door	Parking Office	3.9
L015	Black paint on metal light post	Level R	<0.0061

All paints containing elevated levels of lead were found to be in good condition and not flaking, peeling or delaminating.



Lead-containing orange paint on metal door, Parking Office

5.2.2 Lead Products and Applications

Lead products were not found during the assessment.



5.3 Silica

Crystalline silica is a presumed component of the following materials: poured concrete, masonry brick and mortar.

5.4 Mercury

5.4.1 Lamps

Mercury vapour is present in fluorescent lamps in the assessed areas.

5.4.2 Mercury-containing Devices

Thermostats inspected did not contain liquid mercury ampules.

5.5 Polychlorinated Biphenyls

5.5.1 Caulking

Caulking in the assessed areas was not suspected to contain PCBs due to the date of installation (after 1985).

5.5.2 Lighting Ballasts

Based on date of construction and confirmed by visual observations (evidence of T-5 or T-8 fixtures with magnetic ballasts) the building will not contain PCB ballasts.

5.5.3 Transformers

All transformers in the assessed work areas are dry type transformers and do not contain PCB-containing dielectric fluids.

5.6 Mould

Visible mould growth was not found during the assessment.

6.0 RECOMMENDATIONS

6.1 General

1. Prepare plans and performance specifications for hazardous material removal required for the planned work. The specifications should include the scope of work, safe work practices, personal protective equipment, respiratory protection, and disposal of waste materials.
2. Investigate any items excluded from the scope of work of this report.



3. Provide this report and the detailed plans and specifications to the contractor prior to bidding or commencing work.
4. Retain a qualified consultant to specify, inspect and verify the successful removal of hazardous materials.
5. Update the asbestos inventory upon completion of the abatement and removal of asbestos-containing materials.

6.1.1 Asbestos

Remove asbestos-containing materials (ACM) prior to renovation, alteration, or maintenance if ACM may be disturbed by the work. Remove all asbestos-containing materials (ACM) prior to demolition work.

If the identified ACM will not be removed prior to commencement of the work, disturbance of ACM must follow the appropriate asbestos precautions for the classification of work being performed.

Asbestos-containing materials must be disposed of at a landfill approved to accept asbestos waste.

6.1.2 Lead

For paints identified as having elevated levels of lead (i.e., greater than the EACO guideline of 0.1% for lead-containing paints), construction disturbance may result in over-exposure to lead dust or fumes. The need for work procedures, engineering controls and personal protective equipment should be assessed on a site specific basis to comply with provincial standards or guidelines. Performing an exposure assessment during work that disturbs lead in paints and coatings may be able to reduce the use of some of these precautions.

Items painted with paints containing elevated levels of lead may be a hazardous waste. Test lead-painted materials for leachable lead prior to disposal.

Dispose of painted non-metallic materials exceeding the criteria for leachable lead as hazardous waste. Well adhered paints containing elevated levels of lead on metal substrates do not require leachable lead analysis as the materials can be recycled with the paint intact.

6.1.3 Silica

Construction disturbance of silica-containing products may result in excessive exposures to airborne silica, especially if performed indoors and dry. Cutting, grinding, drilling or demolition of materials containing silica should be completed only with proper respiratory protection and other worker safety precautions that comply with provincial standards or guidelines.



6.1.4 *Mercury*

Do not break lamps or separate liquid mercury from components. Recycle and reclaim mercury from fluorescent lamps when taken out of service. Liquid mercury is classified as a hazardous waste and must be disposed of in accordance with local regulations.

6.1.5 *Mould*

No mould was observed; if mould is uncovered inside wall cavities during hand demolition, use appropriate precautions and protect workers using methods that comply with provincial guidelines.

7.0 TERMS AND LIMITATIONS

This work was performed subject to the Terms and Limitations presented or referenced in the Authorization to Proceed document for this project on the back of the Chain of Custody.

Information provided by Pinchin is intended for Client use only. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law. Any use by a third party of reports or documents authored by Pinchin or any reliance by a third party on or decisions made by a third party based on the findings described in said documents, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted. No other warranties are implied or expressed.



Hazardous Building Materials Assessment Report

Juravinski Hospital Concession Street Parking Garage, 711 Concession Street, Hamilton,
Ontario
Hamilton Health Sciences

May 11, 2018

Pinchin File: 217426.017

8.0 CLOSURE

Should you have any questions or concerns regarding the contents of this letter, please contact Michael Maiorana at 905.577-6206 ext. 1724.

Yours truly,

Pinchin Ltd.

Prepared by:

Robert Bertin-Fenney

Project Technologist

289.339.6880

rbertin-fenney@pinchin.com

Reviewed by:

Damian Palus, C.E.T.

Operation Manager

905.577.6206 ext. 1725

dpalus@pinchin.com

Encl.: Appendix I - Analytical Results
Appendix II - Drawings

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HazMat Report Parking Garage Juravinski HHS May 11 2018.docx
Letter Report Template, September 7, 2017

APPENDIX I
Analytical Results



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



Customer: Pinchin Ltd.
6-875 Main St West
Suite 200
Hamilton, Ontario L8S 4P9

Attn: Robert Bertin-Fenney
Michael Maiorana

Lab Order ID: 11810850
Analysis ID: 11810850_PLM
Date Received: 5/2/2018
Date Reported: 5/8/2018

Project: HazMat Survey, Juravinski Hospital Parking Garage

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
0001A	Black caulking on metal pannels of glass curtain wall Level R elevator lobby	None Detected		100% Other	Black Non Fibrous Homogeneous
11810850PLM_1					Ashed, Dissolved
0001B	Black caulking on metal pannels of glass curtain wall Level R elevator lobby	None Detected		100% Other	Black Non Fibrous Homogeneous
11810850PLM_2					Ashed, Dissolved
0001C	Black caulking on metal pannels of glass curtain wall Level R elevator lobby	None Detected		100% Other	Black Non Fibrous Homogeneous
11810850PLM_3					Ashed, Dissolved
0002A	Pinkish caulking under grey caulking on masonry cap, Level R	None Detected		100% Other	Pink Non Fibrous Homogeneous
11810850PLM_4					Ashed, Dissolved
0002B	Pinkish caulking under grey caulking on masonry cap, Level R	None Detected		100% Other	Pink Non Fibrous Homogeneous
11810850PLM_5					Ashed, Dissolved
0002C	Pinkish caulking under grey caulking on masonry cap, off debris on ground	None Detected		100% Other	Pink Non Fibrous Homogeneous
11810850PLM_6					Ashed, Dissolved
0003A	White caulking on eavestrough, Level R	1% Chrysotile		99% Other	White Non Fibrous Homogeneous
11810850PLM_7					Dissolved, Ashed
0003B	White caulking on eavestrough, Level R	1% Chrysotile		99% Other	White Non Fibrous Homogeneous
11810850PLM_8					Dissolved, Ashed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAL. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bethany Nichols (36)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



Customer: Pinchin Ltd.
6-875 Main St West
Suite 200
Hamilton, Ontario L8S 4P9

Attn: Robert Bertin-Fenney
Michael Maiorana

Lab Order ID: 11810850
Analysis ID: 11810850_PLM
Date Received: 5/2/2018
Date Reported: 5/8/2018

Project: HazMat Survey, Juravinski Hospital Parking Garage

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
0003C	White caulking on metal pannels, Level R	1% Chrysotile		99% Other	White Non Fibrous Homogeneous
11810850PLM_9					Dissolved, Ashed
0004A	Black putty on glass curtain wall, Level R elevator Lobby	None Detected		100% Other	Black Non Fibrous Homogeneous
11810850PLM_10					Dissolved, Ashed
0004B	Black putty on glass curtain wall, Level R elevator Lobby	None Detected		100% Other	Black Non Fibrous Homogeneous
11810850PLM_11					Dissolved, Ashed
0004C	Black putty on glass curtain wall, Level R elevator Lobby	None Detected		100% Other	Black Non Fibrous Homogeneous
11810850PLM_12					Dissolved, Ashed
0005A	White caulking around vent pipe, Level 2	None Detected		100% Other	Gray Non Fibrous Homogeneous
11810850PLM_13					Dissolved, Ashed
0005B	White caulking around vent pipe, Level 2	None Detected		100% Other	Gray Non Fibrous Homogeneous
11810850PLM_14					Dissolved, Ashed
0005C	White caulking around vent pipe, Level 2	None Detected		100% Other	Gray Non Fibrous Homogeneous
11810850PLM_15					Dissolved, Ashed
0006A	DJC washroom, Level 1	None Detected		100% Other	White Non Fibrous Homogeneous
11810850PLM_16					Crushed

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Bethany Nichols (36)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



Customer: Pinchin Ltd.
6-875 Main St West
Suite 200
Hamilton, Ontario L8S 4P9

Attn: Robert Bertin-Fenney
Michael Maiorana

Lab Order ID: 11810850
Analysis ID: 11810850_PLM
Date Received: 5/2/2018
Date Reported: 5/8/2018

Project: HazMat Survey, Juravinski Hospital Parking Garage

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
0006B	DJC washroom, Level 1	None Detected		100% Other	White Non Fibrous Homogeneous
11810850PLM_17					Crushed
0006C	DJC Parking Office	None Detected		100% Other	White Non Fibrous Homogeneous
11810850PLM_18					Crushed
0007A	Grey caulking on masonry cap, Level 1	None Detected		100% Other	Gray Non Fibrous Homogeneous
11810850PLM_19					Dissolved, Ashed
0007B	Grey caulking on masonry cap, Level 3	None Detected		100% Other	Gray Non Fibrous Homogeneous
11810850PLM_20					Dissolved, Ashed
0007C	Grey caulking on masonry cap, Level R	None Detected		100% Other	Gray Non Fibrous Homogeneous
11810850PLM_21					Dissolved, Ashed
0008A	Grey caulking around window, Level 1 elevator lobby	None Detected		100% Other	Gray Non Fibrous Homogeneous
11810850PLM_22					Dissolved, Ashed
0008B	Grey caulking around window, Level 1 elevator lobby	None Detected		100% Other	Gray Non Fibrous Homogeneous
11810850PLM_23					Dissolved, Ashed
0008C	Grey caulking around window, Level 1 elevator lobby	None Detected		100% Other	Gray Non Fibrous Homogeneous
11810850PLM_24					Dissolved, Ashed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAL. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bethany Nichols (36)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



Customer: Pinchin Ltd.
6-875 Main St West
Suite 200
Hamilton, Ontario L8S 4P9

Attn: Robert Bertin-Fenney
Michael Maiorana

Lab Order ID: 11810850
Analysis ID: 11810850_PLM
Date Received: 5/2/2018
Date Reported: 5/8/2018

Project: HazMat Survey, Juravinski Hospital Parking Garage

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
0009A	Black window putty on Office window, Level 1 elevator lobby	None Detected	10% Cellulose	90% Other	Black Non Fibrous Homogeneous
11810850PLM_25					Dissolved, Ashed
0009B	Black window putty on Office window, Level 1 elevator lobby	None Detected	10% Cellulose	90% Other	Black Non Fibrous Homogeneous
11810850PLM_26					Dissolved, Ashed
0009C	Black window putty on Office window, Level 1 elevator lobby	None Detected	10% Cellulose	90% Other	Black Non Fibrous Homogeneous
11810850PLM_27					Dissolved, Ashed
0010A	Black exterior caulking on metal pannels, Level R elevator lobby	None Detected		100% Other	Black Non Fibrous Homogeneous
11810850PLM_28					Dissolved, Ashed
0010B	Black exterior caulking on metal pannels, Level R elevator lobby	None Detected		100% Other	Black Non Fibrous Homogeneous
11810850PLM_29					Dissolved, Ashed
0010C	Black exterior caulking on metal pannels, Level R elevator lobby	None Detected		100% Other	Black Non Fibrous Homogeneous
11810850PLM_30					Dissolved, Ashed
0011A	Off white caulking around door frame, Washroom Level 1	None Detected		100% Other	Cream Non Fibrous Homogeneous
11810850PLM_31					Dissolved, Ashed
0011B	Off white caulking around door frame, Washroom Level 1	None Detected		100% Other	Cream Non Fibrous Homogeneous
11810850PLM_32					Dissolved, Ashed

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Bethany Nichols (36)

Analyst

Approved Signatory



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



Customer: Pinchin Ltd.
6-875 Main St West
Suite 200
Hamilton, Ontario L8S 4P9

Attn: Robert Bertin-Fenney
Michael Maiorana

Lab Order ID: 11810850
Analysis ID: 11810850_PLM
Date Received: 5/2/2018
Date Reported: 5/8/2018

Project: HazMat Survey, Juravinski Hospital Parking Garage

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
0011C	Off white caulking around door frame, Washroom Level 1	None Detected		100% Other	Cream Non Fibrous Homogeneous
11810850PLM_33					Dissolved, Ashed
0012A	Off white caulking expansion joint caulking, Level 1	None Detected		100% Other	Cream Non Fibrous Homogeneous
11810850PLM_34					Dissolved, Ashed
0012B	Off white caulking expansion joint caulking, Level 5	None Detected		100% Other	Cream Non Fibrous Homogeneous
11810850PLM_35					Dissolved, Ashed
0012C	Off white caulking expansion joint caulking, Level R	None Detected		100% Other	Cream Non Fibrous Homogeneous
11810850PLM_36					Dissolved, Ashed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAL. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.


Bethany Nichols (36)

Analyst

Approved Signatory

11810850

Version 1-15-2012

Client:	Pinchin Ltd.	*Instructions: Use Column "B" for your contact info	Invoice to: Accounts Payable ap@pinchin.com
Contact:	Robert Bertin-Fenney; Michael Maio		
Address:	6-875 Main Street W, Hamilton, ON	To See an Example Click the bottom Example Tab.	
Phone:	289.339.6880		
Fax:	905.577.6207	Enter samples between "<<" and ">>" Begin Samples with a "<<" above the first sample and end with a ">>" below the last sample. Only Enter your data on the first sheet "Sheet1"	
Email:	rbertin-fenney@pinchin.com; mmaiorana@pinchin.com		
Project:	HazMat Survey, Juravinski Hospital	Note: Data 1 and Data 2 are optional fields that do not show up on the official report, however they will be included in the electronic data returned to you to facilitate your reintegration of the report data.	Scientific Analytical Institute 4604 Dundas Dr. Greensboro, NC 27407 Phone: 336.292.3888 Fax: 336.292.3313 Email: lab@sailab.com
Client Notes:			
P.O. #.	217420.017		
Date Submitted:	May 1 2018		
Analysis:	Asbestos Analysis		
TurnAroundTime:	Regular 5 day turnaround		

Sample Number	Data 1 (Lab use only)	Sample Description	Data 2 (Lab use only)
---------------	-----------------------	--------------------	-----------------------

<<			
0001A		Black caulking on metal pannels of glass curtain wall Level R elevator lobby	
0001B		Black caulking on metal pannels of glass curtain wall Level R elevator lobby	
0001C		Black caulking on metal pannels of glass curtain wall Level R elevator lobby	
0002A		Pinkish caulking under grey caulking on masonry cap, Level R	
0002B		Pinkish caulking under grey caulking on masonry cap, Level R	
0002C		Pinkish caulking under grey caulking on masonry cap, off debris on ground	
0003A		White caulking on eavestrough, Level R	
0003B		White caulking on eavestrough, Level R	
0003C		White caulking on metal pannels, Level R	

Accepted

Rejected

K. Hamilton


5/2/18

10:35AM

0004A	Black putty on glass curtain wall, Level R elevator Lobby
0004B	Black putty on glass curtain wall, Level R elevator Lobby
0004C	Black putty on glass curtain wall, Level R elevator Lobby
0005A	White caulking around vent pipe, Level 2
0005B	White caulking around vent pipe, Level 2
0005C	White caulking around vent pipe, Level 2
0006A	DJC washroom, Level 1
0006B	DJC washroom, Level 1
0006C	DJC Parking Office
0007A	Grey caulking on masonry cap, Level 1
0007B	Grey caulking on masonry cap, Level 3
0007C	Grey caulking on masonry cap, Level R
0008A	Grey caulking around window, Level 1 elevator lobby
0008B	Grey caulking around window, Level 1 elevator lobby
0008C	Grey caulking around window, Level 1 elevator lobby
0009A	Black window putty on Office window, Level 1 elevator lobby
0009B	Black window putty on Office window, Level 1 elevator lobby
0009C	Black window putty on Office window, Level 1 elevator lobby
0010A	Black exterior caulking on metal pannels, Level R elevator lobby
0010B	Black exterior caulking on metal pannels, Level R elevator lobby
0010C	Black exterior caulking on metal pannels, Level R elevator lobby
0011A	Off white caulking around door frame, Washroom Level 1
0011B	Off white caulking around door frame, Washroom Level 1
0011C	Off white caulking around door frame, Washroom Level 1
0012A	Off white caulking expansion joint caulking, Level 1
0012B	Off white caulking expansion joint caulking, Level 5
0012C	Off white caulking expansion joint caulking, Level R
>>	

11810850

Version 1-15-2012

Client: Contact: Address: Phone: Fax: Email:	Pinchin Ltd. Robert Bertin-Fenney; Michael Maio 6-875 Main Street W, Hamilton, ON 289.339.6880 905.577.6207 rbertin-fenney@pinchin.com ; mmaiorana@pinchin.com	<p align="center">*Instructions:</p> <p align="center">Use Column "B" for your contact info</p> <p align="center">To See an Example Click the bottom Example Tab.</p> <p align="center">Enter samples between "<<" and ">>" Begin Samples with a "<<" "above the first sample and end with a ">>" below the last sample. Only Enter your data on the first sheet "Sheet1"</p> <p align="center">Note: Data 1 and Data 2 are optional fields that do not show up on the official report, however they will be included in the electronic data returned to you to facilitate your reintegration of the report data.</p>	Invoice to: Accounts Payable ap@pinchin.com
	Project: HazMat Survey, Juravinski Hospital Client Notes: P.O. #. 217420.017 Date Submitted: May 1 2018 Analysis: Asbestos Analysis TurnAroundTime: Regular 5 day turnaround		 <p align="center"> Scientific Analytical Institute 4604 Dundas Dr. Greensboro, NC 27407 Phone: 336.292.3888 Fax: 336.292.3313 Email: lab@sailab.com </p>

Sample Number	Data 1 (Lab use only)	Sample Description	Data 2 (Lab use only)
---------------	-----------------------	--------------------	-----------------------

<<			
0001A		Black caulking on metal pannels of glass curtain wall Level R elevator lobby	
0001B		Black caulking on metal pannels of glass curtain wall Level R elevator lobby	
0001C		Black caulking on metal pannels of glass curtain wall Level R elevator lobby	
0002A		Pinkish caulking under grey caulking on masonry cap, Level R	
0002B		Pinkish caulking under grey caulking on masonry cap, Level R	
0002C		Pinkish caulking under grey caulking on masonry cap, off debris on ground	
0003A		White caulking on eavestrough, Level R	
0003B		White caulking on eavestrough, Level R	
0003C		White caulking on metal pannels, Level R	

Accepted

Rejected

K. Hamilton

5/2/8

10:35AM

0004A	Black putty on glass curtain wall, Level R elevator Lobby
0004B	Black putty on glass curtain wall, Level R elevator Lobby
0004C	Black putty on glass curtain wall, Level R elevator Lobby
0005A	White caulking around vent pipe, Level 2
0005B	White caulking around vent pipe, Level 2
0005C	White caulking around vent pipe, Level 2
0006A	DJC washroom, Level 1
0006B	DJC washroom, Level 1
0006C	DJC Parking Office
0007A	Grey caulking on masonry cap, Level 1
0007B	Grey caulking on masonry cap, Level 3
0007C	Grey caulking on masonry cap, Level R
0008A	Grey caulking around window, Level 1 elevator lobby
0008B	Grey caulking around window, Level 1 elevator lobby
0008C	Grey caulking around window, Level 1 elevator lobby
0009A	Black window putty on Office window, Level 1 elevator lobby
0009B	Black window putty on Office window, Level 1 elevator lobby
0009C	Black window putty on Office window, Level 1 elevator lobby
0010A	Black exterior caulking on metal pannels, Level R elevator lobby
0010B	Black exterior caulking on metal pannels, Level R elevator lobby
0010C	Black exterior caulking on metal pannels, Level R elevator lobby
0011A	Off white caulking around door frame, Washroom Level 1
0011B	Off white caulking around door frame, Washroom Level 1
0011C	Off white caulking around door frame, Washroom Level 1
0012A	Off white caulking expansion joint caulking, Level 1
0012B	Off white caulking expansion joint caulking, Level 5
0012C	Off white caulking expansion joint caulking, Level R
>>	



Analysis for Lead Concentration in Paint Chips



by Flame Atomic Absorption Spectroscopy
EPA SW-846 3050B/6010C/7000B

Customer: Pinchin Ltd.
6-875 Main St West
Suite 200
Hamilton, Ontario L8S 4P9

Attn: Robert Bertin-Fenney
Michael Maiorana

Lab Order ID: 11810841
Analysis ID: 11810841_PBP
Date Received: 5/2/2018
Date Reported: 5/9/2018

Project: HazMat Survey, Juravinski Hospital Parking Garage

Sample ID	Description	Mass	Concentration	Concentration
Lab Sample ID	Lab Notes	(g)	(ppm)	(% by weight)
L001	Blue paint on metal elevator structure, Elevator shaft	0.0389	51	0.0051%
11810841PBP_1				
L002	White paint on metal structure, Northside of parking garage	0.0545	< 73	< 0.0073%
11810841PBP_2				
L003	Red paint on concrete, Level 1	0.0695	< 58	< 0.0058%
11810841PBP_3				
L004	White paint on concrete, Level 1	0.0516	< 78	< 0.0078%
11810841PBP_4				
L005	Yellow paint on metal door, wshroom Level 1	0.0602	86	0.0086%
11810841PBP_5				
L006	Light beige paint on drywall, Washroom Level 1	0.0577	< 69	< 0.0069%
11810841PBP_6				
L007	Blue paint on cast iron vent pipe, Level 2	0.0642	72	0.0072%
11810841PBP_7				
L008	Pink paint on metal door, Level R Elevator lobby	0.0506	< 79	< 0.0079%
11810841PBP_8				
L009	Light blue paint on metal door, Level 5 Elevator lobby	0.0623	< 64	< 0.0064%
11810841PBP_9				
L010	Red paint on metal frame, Level 4 Elevator lobby	0.0517	< 77	< 0.0077%
11810841PBP_10				

Unless otherwise noted blank sample correction was not performed on analytical results. Scientific Analytical Institute participates in the AIHA ELPAT program. ELPAT Laboratory ID: 173190. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. Analytical uncertainty available upon request. The quality control samples run with the samples in this report have passed all EPA required specifications unless otherwise noted. RL: (Report Limit for an undiluted 50ml sample is 4µg Total Pb).

Melissa Ferrell (15)

Analyst

Laboratory Director



Analysis for Lead Concentration in Paint Chips



by Flame Atomic Absorption Spectroscopy
EPA SW-846 3050B/6010C/7000B

Customer: Pinchin Ltd.
6-875 Main St West
Suite 200
Hamilton, Ontario L8S 4P9

Attn: Robert Bertin-Fenney
Michael Maiorana

Lab Order ID: 11810841
Analysis ID: 11810841_PBP
Date Received: 5/2/2018
Date Reported: 5/9/2018

Project: HazMat Survey, Juravinski Hospital Parking Garage

Sample ID	Description	Mass	Concentration	Concentration
Lab Sample ID	Lab Notes	(g)	(ppm)	(% by weight)
L011	Blue paint on metal door, Level 3 Elevator lobby	0.0625	< 64	< 0.0064%
11810841PBP_11				
L012	Green paint on metal door, Level 2 Elevator lobby	0.0567	< 71	< 0.0071%
11810841PBP_12				
L013	Beige paint on metal door, Parking Office	0.0248	< 65	< 0.0065%
11810841PBP_13				
L014	Orange paint on metal door, Parking Office	0.0370	39000	3.9%
11810841PBP_14				
L015	Black paint on metal light post, Level R	0.0654	< 61	< 0.0061%
11810841PBP_15				

Unless otherwise noted blank sample correction was not performed on analytical results. Scientific Analytical Institute participates in the AIHA ELPAT program. ELPAT Laboratory ID: 173190. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. Analytical uncertainty available upon request. The quality control samples run with the samples in this report have passed all EPA required specifications unless otherwise noted. RL: (Report Limit for an undiluted 50ml sample is 4µg Total Pb).

Melissa Ferrell (15)

Analyst

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888

Laboratory Director

11810841

Version 1-15-2012

Client: Pinchin Ltd.
 Robert Bertin-Fenney; Michael Maiorana
Contact: Robert Bertin-Fenney; Michael Maiorana
Address: 6-875 Main St W, Hamilton, ON
Phone: 905-339-6880
Fax: 905-577-6207
Email: rbertin-fenney@pinchin.com
 mmaiorana@pinchin.com
Project: HazMat Survey, Juravinski Hospital Parking Garage
Client Notes: % lead by weight
P.O. #: 217420.017
Date Submitted: May 1 2018
Analysis: % lead by weight
TurnAroundTime: 5 Days

***Instructions:**

Use Column "B" for your contact info

To See an Example Click the bottom Example Tab.


Enter samples between "<<" and ">>"

Begin Samples with a "<<" above the first sample and end with a ">>" below the last sample. Only Enter your data on the first sheet "Sheet1"

Note: Data 1 and Data 2 are optional fields that do not show up on the official report, however they will be included in the electronic data returned to you to facilitate your reintegration of the report data.

Invoice to:
 Accounts Payable
 ap@pinchin.com

Scientific Analytical Institute



4604 Dundas Drive
 Greensboro, NC 27407
 Phone: 336.292.3888
 Fax: 336.292.3313
 Email: lab@sailab.com

Sample Number	Data 1 (Lab use only)	Sample Description	Data 2 (Lab use only)
---------------	-----------------------	--------------------	-----------------------

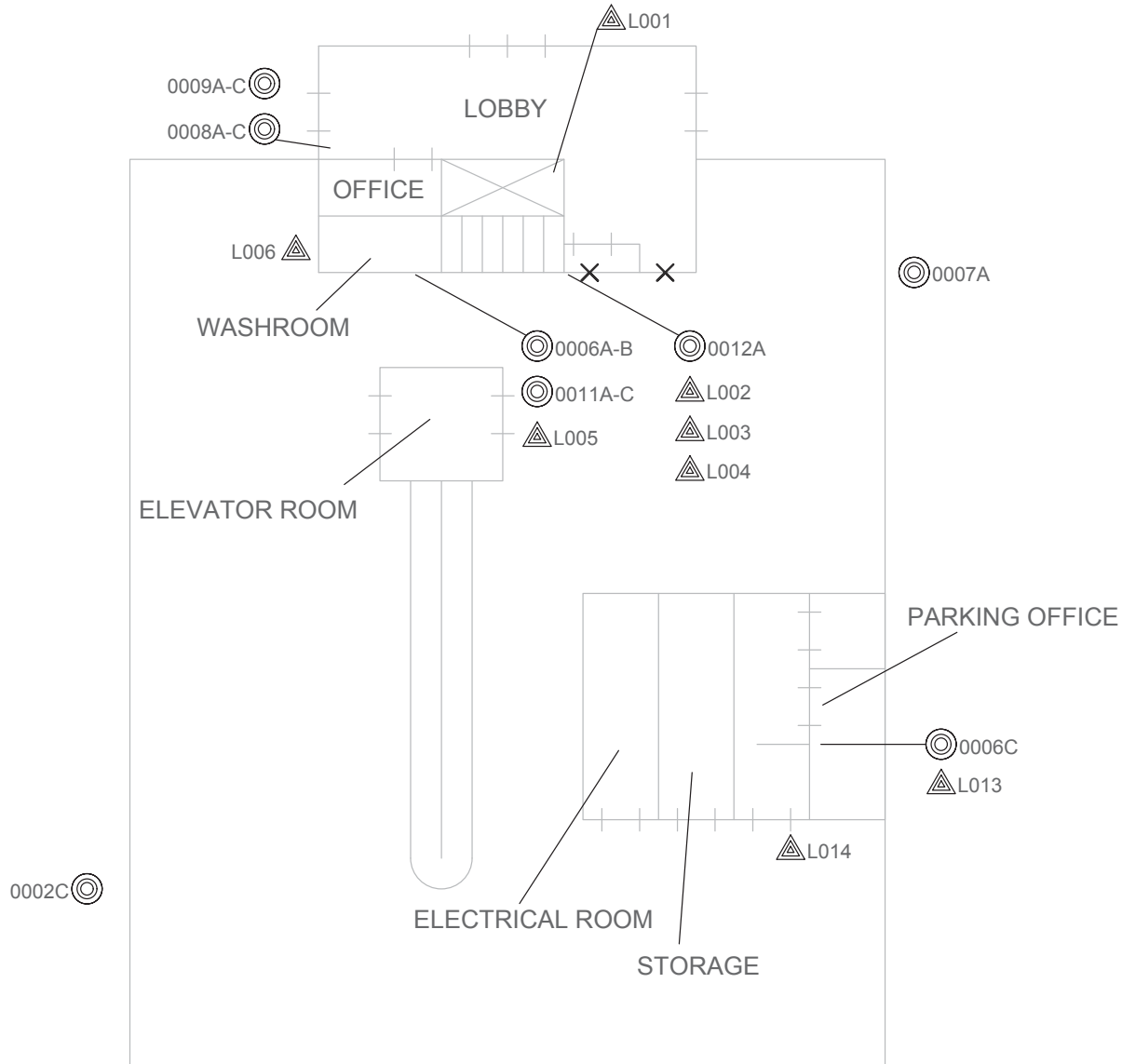
<<			
L001		Blue paint on metal elevator structure, Elevator shaft	
L002		White paint on metal structure, Northside of parking garage	
L003		Red paint on concrete, Level 1	
L004		White paint on concrete, Level 1	
L005		Yellow paint on metal door, wshroom Level 1	
L006		Light beige paint on drywall, Washroom Level 1	
L007		Blue paint on cast iron vent pipe, Level 2	
L008		Pink paint on metal door, Level R Elevator lobby	
L009		Light blue paint on metal door, Level 5 Elevator lobby	
L010		Red paint on metal frame, Level 4 Elevator lobby	
L011		Blue paint on metal door, Level 3 Elevator lobby	
L012		Green paint on metal door, Level 2 Elevator lobby	
L013		Beige paint on metal door, Parking Office	
L014		Orange paint on metal door, Parking Office	
L015		Black paint on metal light post, Level R	
>>			

Accepted

Rejected

CALL Stuart
 5-2 10:30

APPENDIX II
Drawings



LEGEND:

- ⊙ ASBESTOS BULK SAMPLE
- ▲ LEAD BULK SAMPLE
- × VERMICULITE TEST LOCATIONS

ASBESTOS-CONTAINING MATERIALS:

- CAULKING

NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.

LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.

CLIENT:
HAMILTON HEALTH SCIENCES

LOCATION:
711 CONCESSION STREET
HAMILTON, ONTARIO

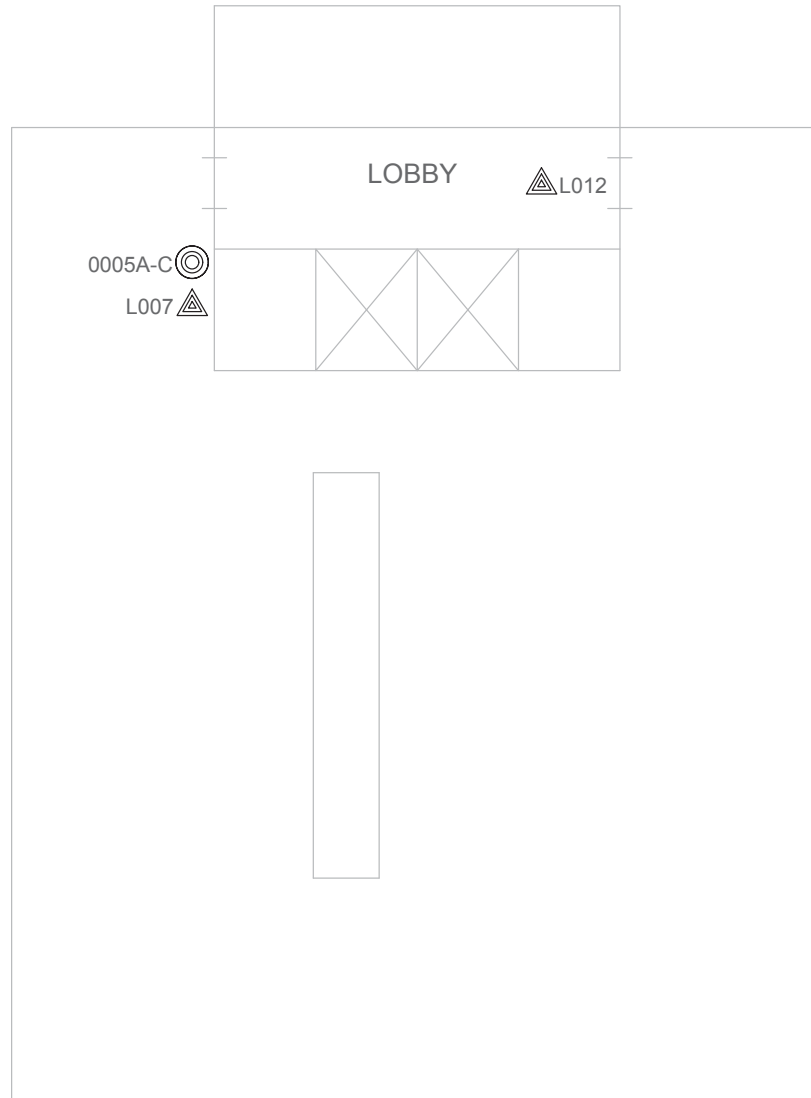
TITLE:
HAZARDOUS BUILDING
MATERIALS ASSESSMENT
LEVEL 1

DATE: MAY 2018	PROJECT #: 217420.017
-------------------	--------------------------

DRAWN BY: RSB	DRAWING: 1 OF 6
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CHECKED BY: RBF

SCALE: NTS



LEGEND:

- ASBESTOS BULK SAMPLE
- LEAD BULK SAMPLE
- VERMICULITE TEST LOCATIONS

ASBESTOS-CONTAINING MATERIALS:

- CAULKING

NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.

LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.

CLIENT:
HAMILTON HEALTH SCIENCES

LOCATION:
711 CONCESSION STREET
HAMILTON, ONTARIO

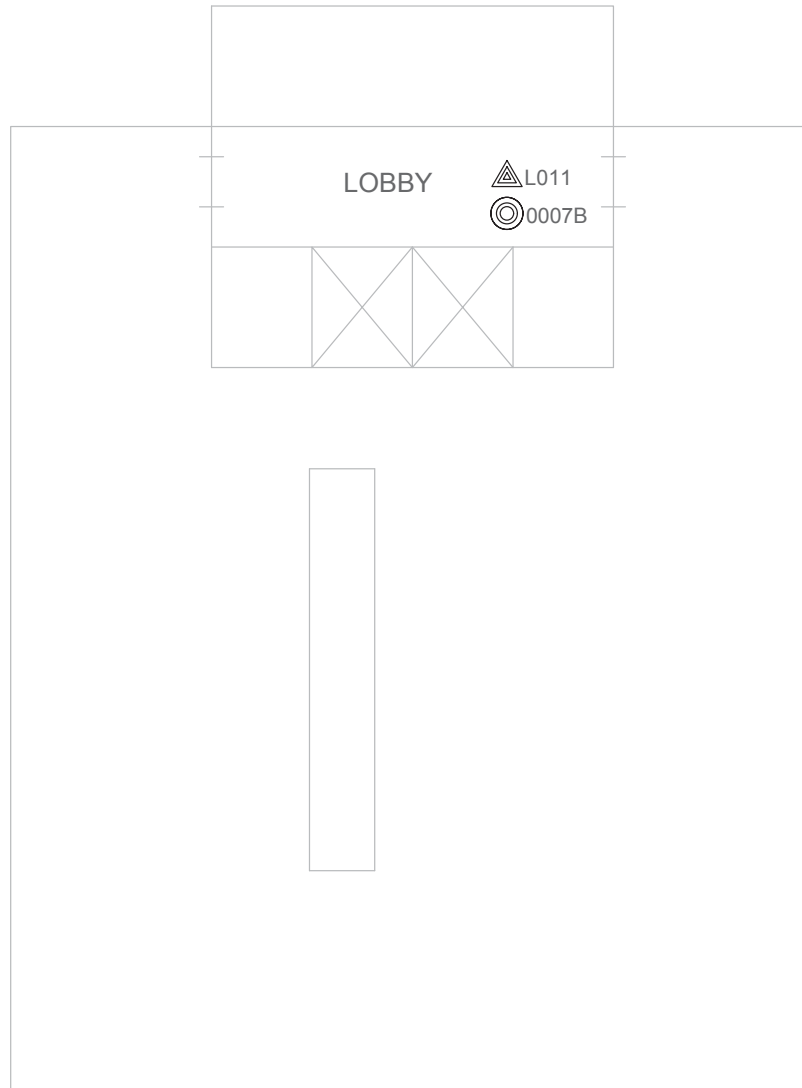
TITLE:
HAZARDOUS BUILDING
MATERIALS ASSESSMENT
LEVEL 2

DATE: MAY 2018	PROJECT #: 217420.017
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DRAWN BY: RSB	DRAWING: 2 OF 6
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CHECKED BY: RBF	DRAWING: 2 OF 6
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SCALE: NTS	DRAWING: 2 OF 6
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LEGEND:

- ASBESTOS BULK SAMPLE
- LEAD BULK SAMPLE
- VERMICULITE TEST LOCATIONS

ASBESTOS-CONTAINING MATERIALS:

- CAULKING

NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.

LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.

CLIENT:
HAMILTON HEALTH SCIENCES

LOCATION:
711 CONCESSION STREET
HAMILTON, ONTARIO

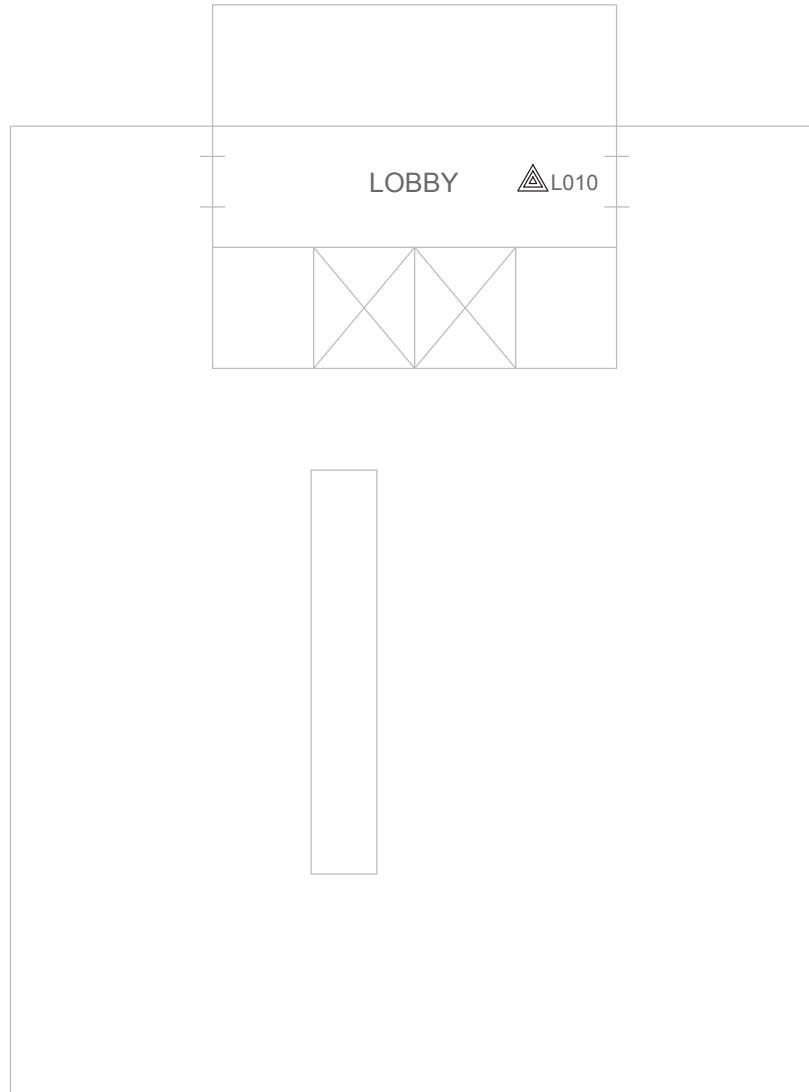
TITLE:
HAZARDOUS BUILDING
MATERIALS ASSESSMENT
LEVEL 3

DATE: MAY 2018	PROJECT # : 217420.017
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DRAWN BY: RSB	DRAWING: 3 OF 6
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CHECKED BY: RBF	DRAWING: 3 OF 6
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SCALE: NTS	DRAWING: 3 OF 6
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LEGEND:

- ASBESTOS BULK SAMPLE
- LEAD BULK SAMPLE
- VERMICULITE TEST LOCATIONS

ASBESTOS-CONTAINING MATERIALS:

- CAULKING

NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.

LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.

CLIENT:
HAMILTON HEALTH SCIENCES

LOCATION:
711 CONCESSION STREET
HAMILTON, ONTARIO

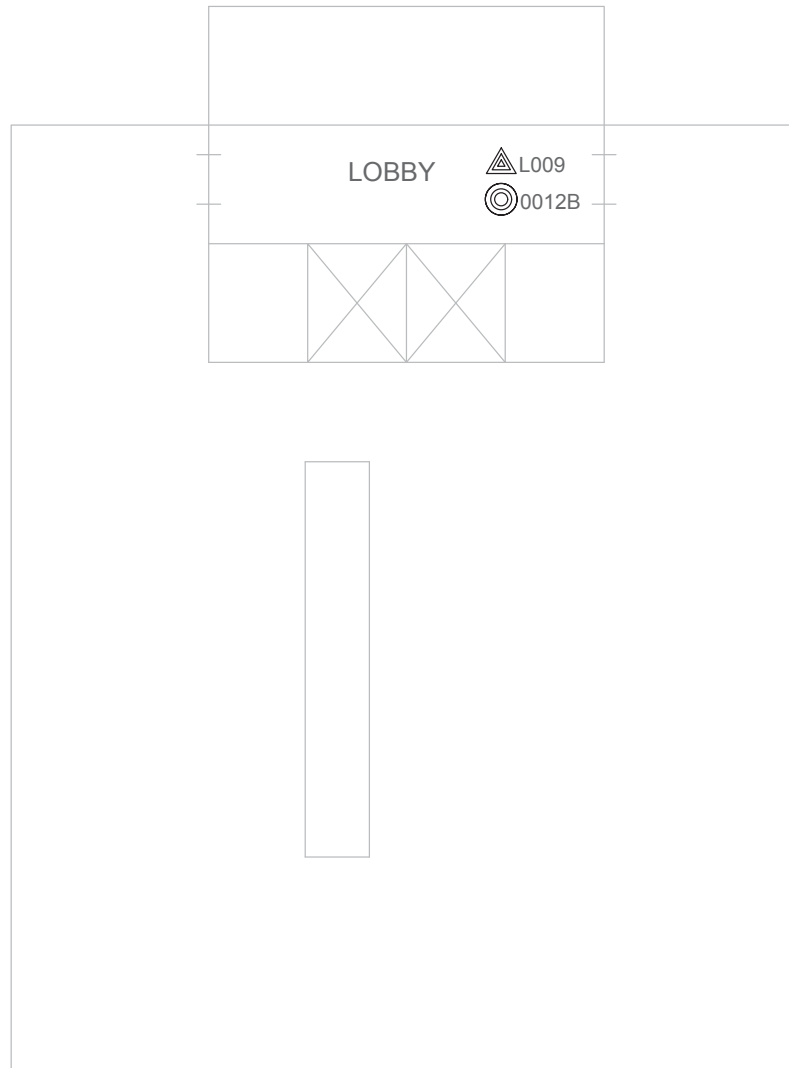
TITLE:
HAZARDOUS BUILDING
MATERIALS ASSESSMENT
LEVEL 4

DATE: MAY 2018	PROJECT #: 217420.017
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DRAWN BY: RSB	DRAWING: 4 OF 6
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CHECKED BY: RBF

SCALE: NTS



LEGEND:

- ASBESTOS BULK SAMPLE
- LEAD BULK SAMPLE
- VERMICULITE TEST LOCATIONS

ASBESTOS-CONTAINING MATERIALS:

- CAULKING

NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.

LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.

CLIENT:
HAMILTON HEALTH SCIENCES

LOCATION:
711 CONCESSION STREET
HAMILTON, ONTARIO

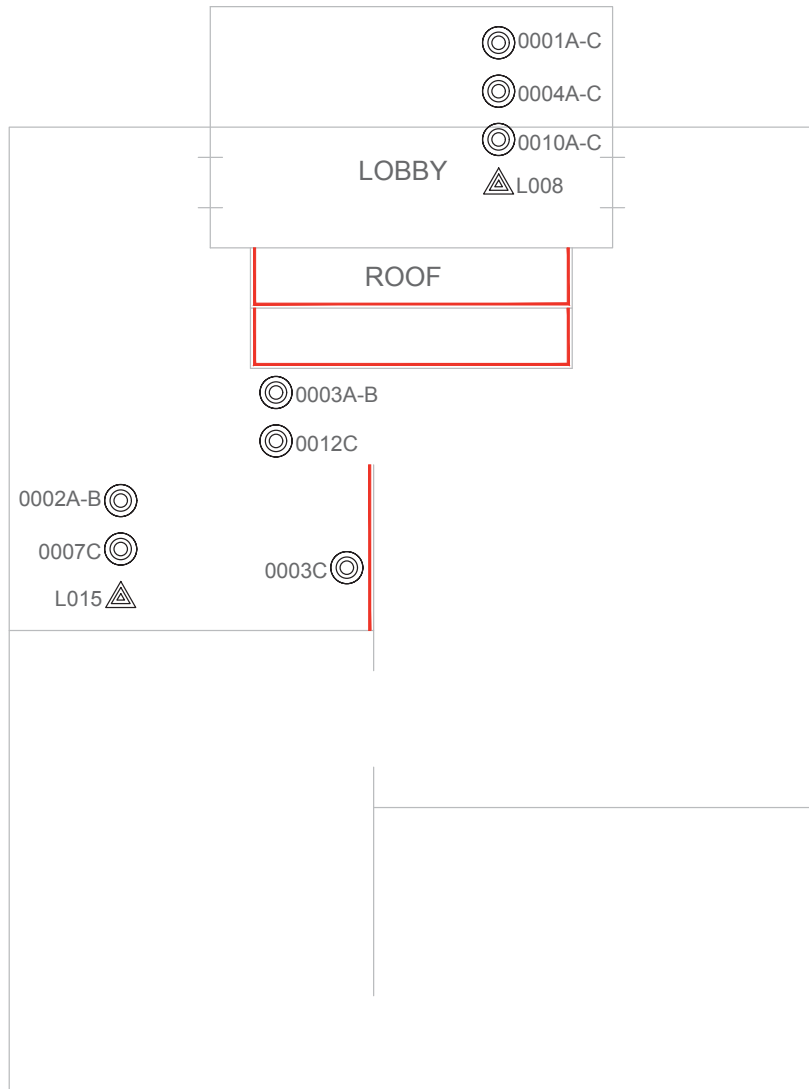
TITLE:
HAZARDOUS BUILDING
MATERIALS ASSESSMENT
LEVEL 5

DATE: MAY 2018	PROJECT #: 217420.017
-------------------	--------------------------

DRAWN BY: RSB	DRAWING: 5 OF 6
------------------	-------------------------------

CHECKED BY: RBF

SCALE: NTS



LEGEND:

- ◎ ASBESTOS BULK SAMPLE
- ▲ LEAD BULK SAMPLE
- ✕ VERMICULITE TEST LOCATIONS

ASBESTOS-CONTAINING MATERIALS:

— CAULKING

NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.

LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.

CLIENT:
HAMILTON HEALTH SCIENCES

LOCATION:
711 CONCESSION STREET
HAMILTON, ONTARIO

TITLE:
HAZARDOUS BUILDING
MATERIALS ASSESSMENT
LEVEL R

DATE: MAY 2018	PROJECT #: 217420.017
-------------------	--------------------------

DRAWN BY: RSB	DRAWING: 6 OF 6
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CHECKED BY: RBF	DRAWING: 6 OF 6
--------------------	-------------------------------

SCALE: NTS	DRAWING: 6 OF 6
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APPENDIX VI
Methodology

1.0 METHODOLOGY

Pinchin inspects the current condition of all accessible asbestos-containing materials (ACM) identified in the most recent assessments. The review of the interstitial spaces at MUMC will be very limited and will not include all areas. The surveyor makes reference to any existing assessment reports and information provided by the Client regarding any newly identified ACM.

The re-assessments exclude the following:

- Articles belonging to the owner, tenant or occupant (e.g. stored items, furniture, appliances, etc.);
- Underground materials or equipment (e.g. vessels, drums, underground storage tanks, pipes, etc.);
- Building envelope, structural components, inaccessible or concealed materials or other items where sampling may cause consequential damage to the property.
- Energized systems (e.g. internal boiler components, elevators, mechanical or electrical components);
- Controlled products (e.g. stored chemicals, operational or process-related substances); and
- Materials not typically associated with construction (e.g. settled dust, spills, residual contamination from prior spills, etc.).

As per the original or previous assessments, concealed locations such as ceiling spaces above solid ceilings, shafts and chases are accessed via existing access panels. Our investigation does not include demolition of drywall or plaster walls to view concealed conditions. Structural items or exterior building finishes are not removed to determine the presence of concealed materials.

Existing sampling data is relied upon. The location of any additional asbestos bulk samples that are required to be collected is recorded on small scale plans. The number of asbestos bulk samples obtained, when sampling is required, is in compliance with the requirements of Table 1 of O.Reg. 278/05.

Materials listed as exclusions in the previous reports remain exclusions. If present, the following materials are presumed to be asbestos-containing and are best sampled immediately prior to commencing renovation/disturbance:

- roofing, felts and tar
- concrete floor levelling compound
- elevator and lift brakes

- electrical components or wiring within control centers, breakers, motors or lights, insulation on wiring
- moulded plastic components (laboratory bench tops)
- refractory materials and insulations in boilers, incinerators and stacks
- insulation under metal clad boilers and vessels
- vermiculite in concrete block wall cavities
- adhesives and duct mastics (where not already sampled)
- caulking (where not already sampled)
- fibre reinforced paints and coatings
- paper products (where not sampled and inaccessible)
- soffit and fascia boards at elevated heights
- mechanical packing, ropes and gaskets
- fire resistant doors or metal clad finishes
- exterior cladding (where concealed)

2.0 INFECTION CONTROL

Pinchin will follow the facility's infection control policy and procedures while performing the assessments.

The Client should communicate this proposal and the scope of the assessments to the facility's Infection Control Department and the JHSC for their review so that they are aware that the procedures for infection control during assessments will be met.

Construction of polyethylene enclosures to access ceiling spaces, and the cost for these, if required, is not included.

3.0 ANALYSIS AND IDENTIFICATION OF ASBESTOS MATERIALS

Pinchin relies on the analytical results of prior surveys. Asbestos bulk samples (if required) will be analyzed at an independent NVLAP accredited laboratory. Preliminary identification of asbestos fibres will be made using polarized light microscopy, with confirmation of the presence and type of asbestos made by dispersion staining optical microscopy. The analysis will be performed in accordance with Test Method EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials, June 1993. All independent laboratories used by Pinchin, including our laboratory, are certified under the National Voluntary Laboratory Accreditation Program (NVLAP) to perform asbestos analysis of bulk samples.

In Ontario an ACM is defined as materials containing 0.5% or more asbestos by weight.

The asbestos analysis is completed using a stop positive approach. Only one result meeting the above regulated criteria is required to determine that a material is asbestos-containing, but all samples must be analyzed to conclusively determine that a material is non-asbestos. The laboratory stops analyzing samples from a homogeneous material once a result equal to or greater than the regulated criteria is detected in any of the samples of that material. All samples of a homogeneous material are analyzed if no asbestos is detected. In some cases, all samples are analyzed in the sample set regardless of result. Where building materials are described in the report as non-asbestos, this means that either no asbestos was detected by the analytical method utilized in any of the multiple samples or, if detected, it is below the lower limit of an asbestos-containing material in the applicable regulation.

Asbestos materials are evaluated in order to make recommendations regarding remedial work. The priority for remedial action is based on several factors:

- Friability (friable or non-friable).
- Condition (good, fair, poor, debris).
- Accessibility (ranking from accessible to all building users to inaccessible).
- Visibility (whether the material is obscured by other building components).
- Efficiency of the work (for example, if damaged ACM is being removed in an area, it may be most practical to remove all ACM in the area even if it is in good condition).

Master Template: Methodology Document for Asbestos Re-Assessment, HAZ, July 21, 2017