Pines Dining Hall + Servery Addition

800 Centre Street, Burns Lake, B.C.

Northern Health Authority

Addendum No. 1

Issued 04 May, 2018
Total (Excluding Cover Page):
48 Pages
3 Drawings
1 Sketch

DGBK Project No. 17-110

DGBK Architects

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PROJECT:

Northern Health Authority
Pines Dining Hall + Servery Addition
Burns Lake, BC

Project No. 17-110

CONSULTANT: DGBK Architects

This Addendum is to be read in conjunction with and considered as an integral part of the Contract Documents. Revisions supersede the information contained in previously issued Drawings, Specifications and Addenda.
Request for Proposal submitted is to include all items of this Addendum.
Consideration will not be allowed for any extras due to any Bidder not being familiar with the contents of this Addendum.

DRAWINGS: **Full Size Drawings:** **A-102, A401 & A-402**
Sketches: **ASK-001**

ATTACHMENTS: **Civil Addendum Number 1 (2 pages)**

Mechanical Addendum Number M-1 (4 pages)

Peak Environmental Consulting: Asbestos Containing Building Materials Assessment Report (32 pages).

BIDDER'S INSTRUCTIONS:

Item 1 BidCentral Online Bidding for Subcontractors (BOBS) shall be used for the receipt of selected sub trade tenders as listed in the Instructions to Bidders. Trade Contractor bids shall be submitted through BOBS as per the current BidCentral Online Bidding for Subcontractors Rules of Procedure no later than **3:00 pm May 11, 2018.** To access BidCentral Online Bidding for Subcontractors, refer to online information at www.bidcentral.ca/bobs

SPECIFICATIONS:

Item 2 **Division 0 BIDDING REQUIREMENTS**
Part 1.1 Instructions to Bidders
Clause 11.1b - Subcontractor bidding – IS NOT APPLICABLE

Item 3 **Section 07 46 46 FIBRE REINFORCED CEMENTITIOUS PANELS**
Add the following:

2.1 MATERIALS
.1.10 Acceptable Panel Material: Swisspearl Carat **and Modula** as manufactured by Eternit.

Item 4 **Section 08 99 00.1 DOOR SCHEDULE**
Add the following:

1. Door Schedule Notes and Abbreviations (1 page).
2. Frame Profiles (3 pages).
3. Frame Types (2 pages).

DRAWINGS:

Item 5 **Drawing A-102**
Note following additions:

1. Note regarding - existing irrigation system refer also to Civil Addendum No. 1.
2. Note regarding - protection of Air Intake Grille in existing facility. Refer to Mechanical Addendum No. 1.
3. Note regarding - protection and relocation of existing air conditioning unit. Refer to Mechanical Addendum No. 1.
4. Note - proposed location for site hoarding located to East of construction zone running from existing building Northwards to existing perimeter fencing.

Item 6 **Drawing A-401 & A-402**
Note the following clarification:

1. Extent and layout of Fibre Reinforced Cementitious Panels and Planks on North, East, South and West Elevations.

DOCUMENTS & REPORTS:

Item 7 **Asbestos Containing Building Materials Assessment Report (2008)**
By Peak Earth and Environmental Consulting Inc.

Note: The report's findings are that *"No asbestos containing building materials were identified or suspected within this building".*

End of Addendum No. 1

DOOR SCHEDULE

ABBREVIATIONS USED IN DOOR SCHEDULE:

Alum. C	Aluminum Curtainwall	Horz.	Horizontal	RO	Rough Opening
Alum. S	Aluminum Storefront	HR	Handrail	SC	Solid Core
Btm.	Bottom	Lam	Laminated Glass	SG	Single Glazing
c/w	Complete with	Mtl	Metal	Sim.	Similar
Dbl.	Double Glazing	N/A	Not Applicable	STC	Sound Transmission Coefficient
Ex.	Existing	O/H	Overhead	Temp	Tempered
GL	Glazing (tempered)	Pnl	Panel	UNO	Unless Noted Otherwise
HC	Handicapped	Pr	Pair	Wd	Wood
Hdwe	Hardware	Pref.	Prefinished	WG	Wired Glass
HM	Hollow Metal	PSF	Pressed Steel Frame		

GENERAL NOTES REGARDING DOOR SCHEDULE:	**Revisions shown thus:** △
A	See Section 08710 - Finish Hardware for Finish Hardware specifications and Finish Hardware Set Schedule.
B	Schedule is meant as a guide. Refer to drawings to confirm dimensions, wall types and details, as these may
	affect the overall frame widths. Confirm all dimensions on site prior to fabrication.
C	For Door Types, refer to Door Type Drawings DT-1
D	For Aluminum Frame Types, refer to Frame Type Drawings FP-1. For Steel Frames, refer to Frame Type Drawings FP-2, FP-3.
E	All exterior glass doors shall be double glazed. All glazing for doors, door lites and sidelites shall be as specified and scheduled.
	All interior doors to be single glazed. All glazed lites to be clear tempered glass unless noted otherwise.
F	Exposed fasteners on frames to be countersunk, filled, sanded & painted to conceal.
G	All solid core wood doors to be 45 mm thick.
H	Under cut doors and incorporate grilles in doors as required by mechanical engineering documents

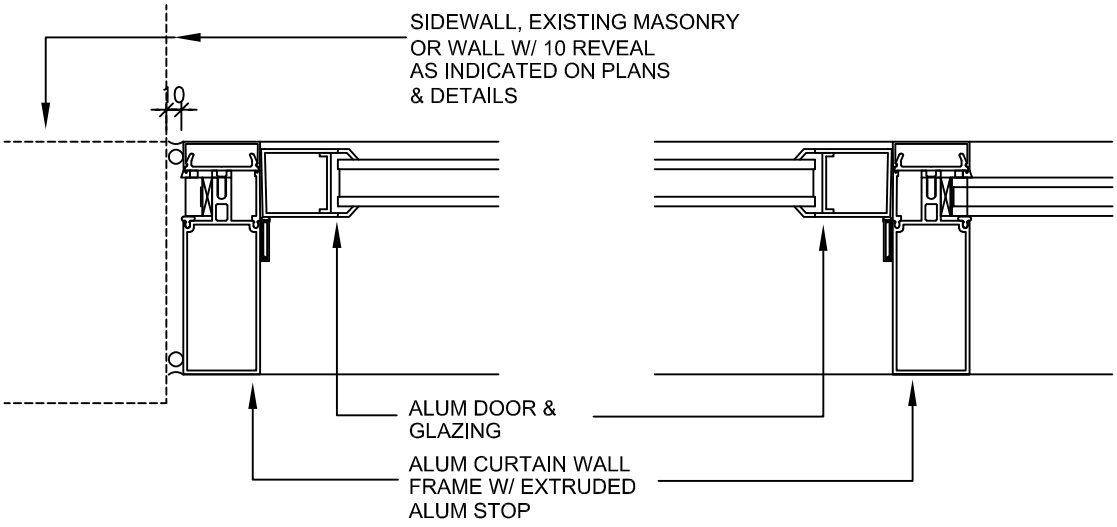
HARDWARE OPERATION REQUIREMENTS

1	Lockset
2	Latchset
3	Privacy set
4	Magnetic Lock
5	Electric Strike
6	Remote door release
7	Exit Hardware
8	Exit Hardware with 15 sec delay
9	Card Reader
10	Key Pad

11	Automatic door operator c/w push pads and or buttons
12	Closer
13	Roller Catch
14	Pulls
15	Push Plate
16	Thumbturn
17	Deadbolt
18	Astragal
19	Door Coordinator
20	Flushbolts
21	Floor Stop
22	Wall Stop
23	Overhead stop
24	Overhead Holdopen
25	Magnetic Holdopen
26	Kick plates
27	Door edge protection
28	Door Seals for acoustics, weather or smoke separation
29	Threshhold
30	Door Contact

FRAME DETAILS

Series Type 1- Aluminum Profiles

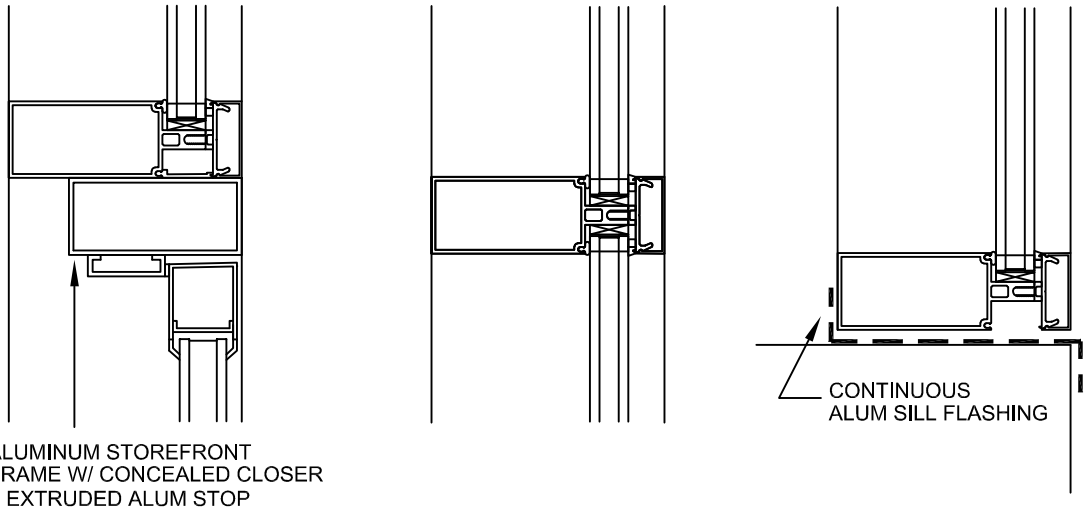


1.1

DOOR JAMB
BUTTING TO WALL
(HEAD SIM. ROTATE 90°)

1.2

GLAZING MULLION
ALUMINUM CURTAIN WALL
AS SPECIFIED



ALUMINUM STOREFRONT
FRAME W/ CONCEALED CLOSER
& EXTRUDED ALUM STOP

1.3

HEAD
ALUMINUM CURTAIN WALL
AS SPECIFIED

1.4

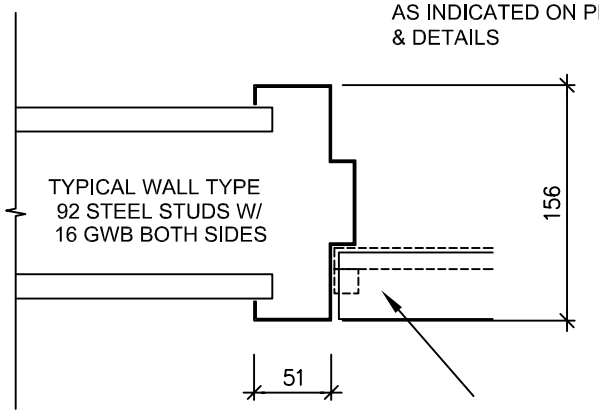
HOIZONTAL MUNTIN
ALUMINUM CURTAIN WALL
AS SPECIFIED

1.5

SILL
ALUMINUM CURTAIN WALL
AS SPECIFIED

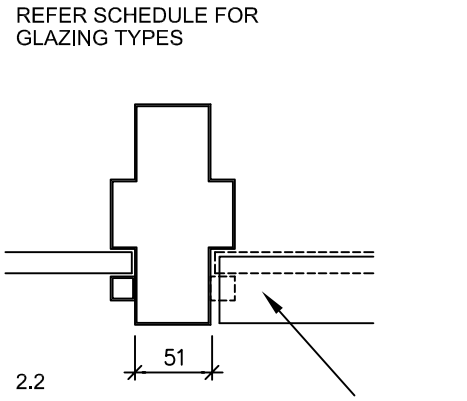
FRAME DETAILS

Series Type 2- Pressed Steel Profiles



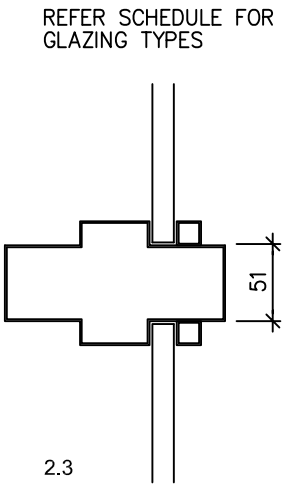
2.1

DOOR JAMB
BUTTING TO WALL
(HEAD SIM. ROTATE 90°)



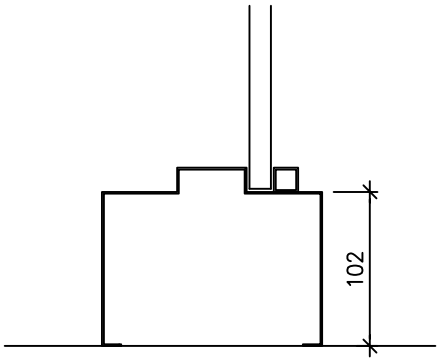
2.2

GLAZING MULLION
FRAME DEPTH TO SUIT
JAMB CONDITION
(HEAD SIM. ROTATE 90°)



2.3

HOIZONTAL MUNTIN
FRAME DEPTH TO SUIT
JAMB CONDITION

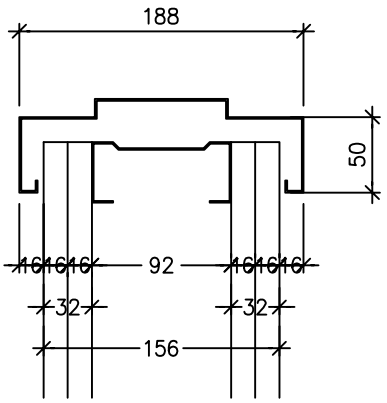


2.4

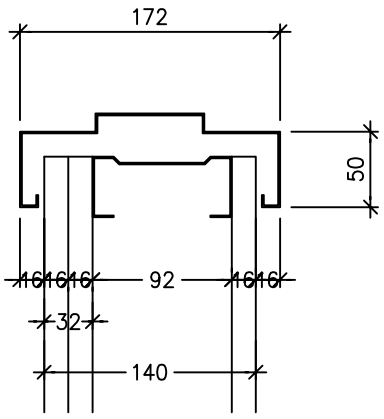
GLAZING SILL
FRAME DEPTH TO SUIT
JAMB CONDITION

FRAME DETAILS

Series Type 2- Pressed Steel Profiles



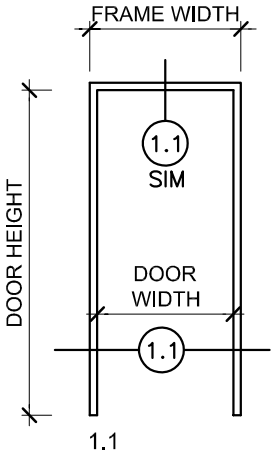
2.5



2.6

FRAME TYPES

Series 1 - Aluminum Frames



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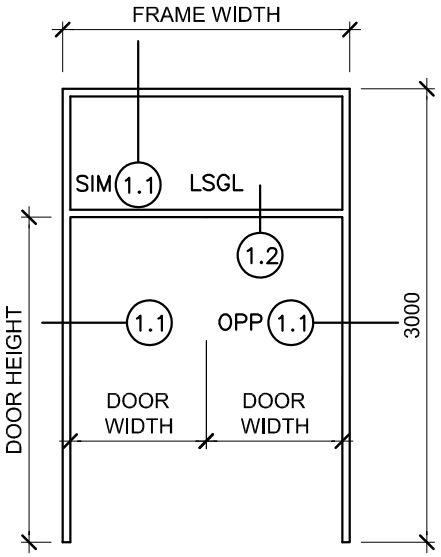
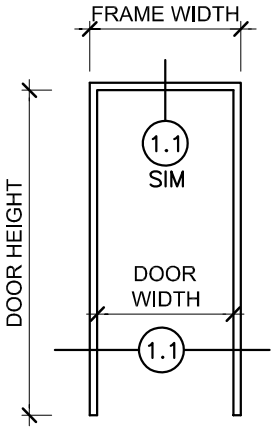


1.2

REFER TO WINDOW SCHEDULE A-402

FRAME TYPES

Series 2 - Pressed Steel Frames



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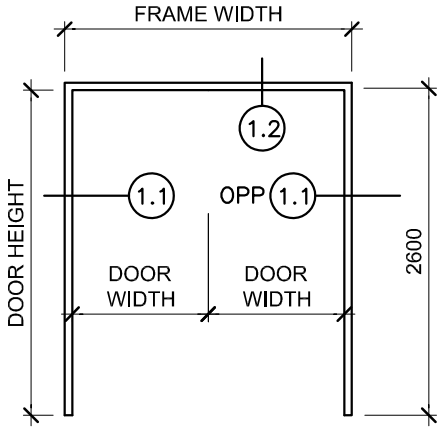

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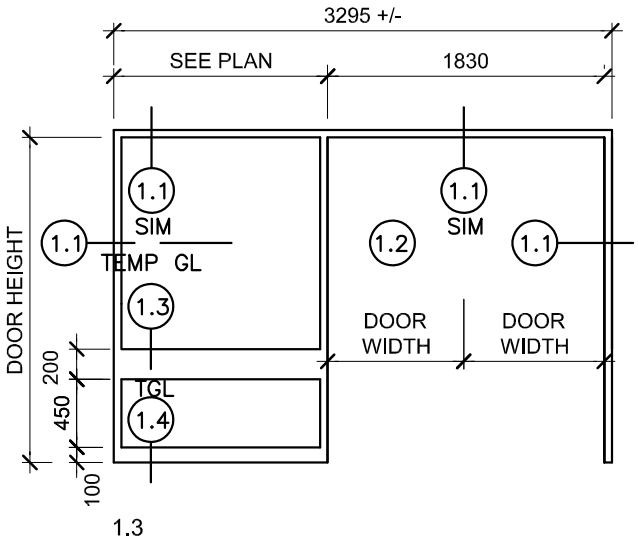

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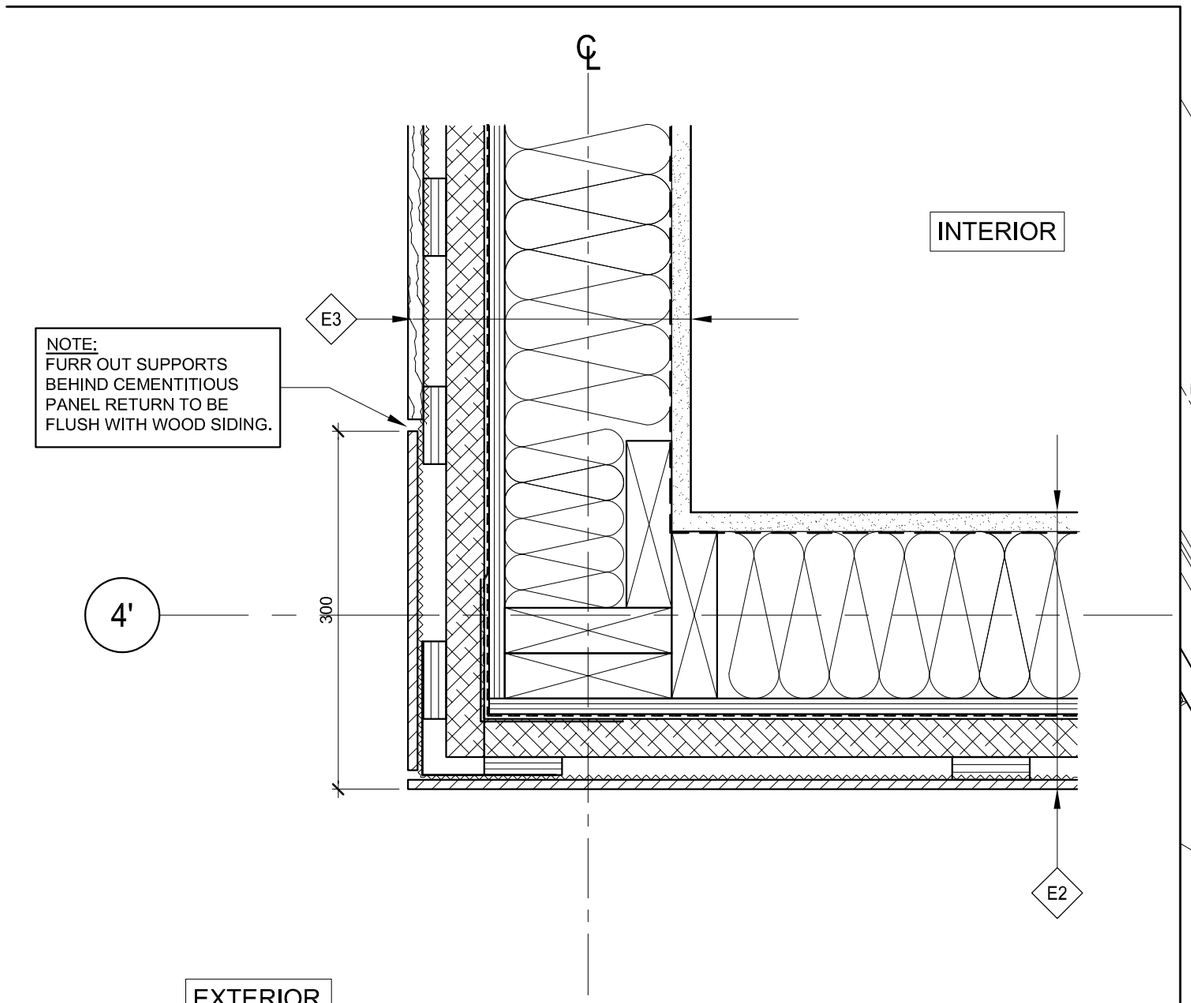
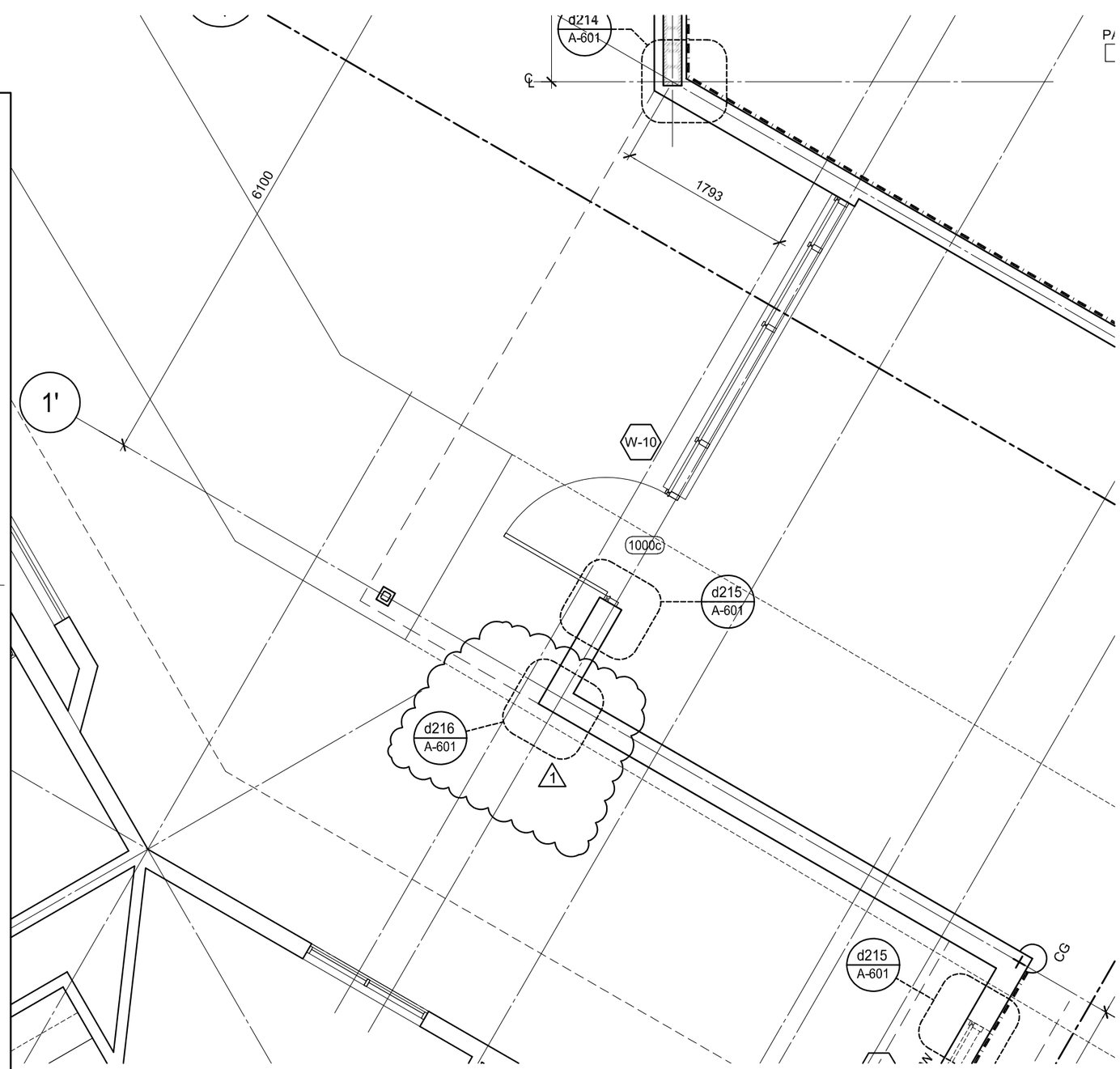


D216 / A201 PLAN DETAIL - CORNER CONDITION @ WOOD / CEMENTITIOUS CLADDING INTERFACE
SCALE 1:5



1 / A201 PARTIAL FLOOR PLAN
SCALE 1:50

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Project	PINES DINING HALL ADD. BURNS LAKE, BC			Title	EXTERIOR PLAN DETAIL D-216/A-202
Drawn -	Checked -	Scale	AS NOTED	Drawing No.	Revision
Project No. 17-110		Date	2018-05-03	ASK-001	1

FOR EXTENT OF TREE REMOVAL REFER TO CIVIL DRAWINGS AND SPECIFICATIONS

FOR EXTENT OF CLEARING AND GRUBBING REFER TO CIVIL DRAWINGS AND SPECIFICATIONS

STORAGE SHED

FOR EXTENT OF CLEARING AND GRUBBING REFER TO CIVIL DRAWINGS AND SPECIFICATIONS

FOR EXTENT OF TREE REMOVAL REFER TO CIVIL DRAWINGS AND SPECIFICATIONS

EMERGENCY GENERATOR

EXISTING SERVICE ROAD

FOR EXTENT OF TREE REMOVAL REFER TO CIVIL DRAWINGS AND SPECIFICATIONS

FOR EXTENT OF TREE REMOVAL REFER TO CIVIL DRAWINGS AND SPECIFICATIONS

EXISTING CONCRETE WALKWAY/PATH

FOR EXTENT OF REMOVAL OF EXISTING FENCING REFER TO CIVIL DRAWINGS AND SPECIFICATIONS

FOR EXTENT OF SITE PREPARATION WORK REFER TO CIVIL DRAWINGS AND SPECIFICATIONS

EXISTING IRRIGATION SYSTEM THROUGHOUT. SYSTEM TO BE SHUT DOWN BY ZONE AS REQUIRED REMOVE SYSTEM AS REQUIRED FOR NEW CONSTRUCTION.

PROTECT EXISTING AIR INTAKE DURING DEMOLITION AND CONSTRUCTION - REFER TO MECHANICAL FOR INSTRUCTIONS

NEW AIR CONDITIONING UNIT BY OWNER. ALLOW FOR PROTECTION OF UNIT DURING CONSTRUCTIONS AND RELOCATION POST CONSTRUCTION.

FOR EXTENT OF TREE REMOVAL REFER TO CIVIL DRAWINGS AND SPECIFICATIONS

FOR EXTENT OF TREE REMOVAL REFER TO CIVIL DRAWINGS AND SPECIFICATIONS

PROPOSED HOARDING LINE

EXISTING CONCRETE PATH TO BE DEMOLISHED AND REMOVED

EXISTING CONCRETE PATH TO BE DEMOLISHED AND REMOVED

1 SITE PLAN - EXISTING - DEMOLITION
A-102 SCALE 1:100

NORTH

DGBK

	revision / issue	date
1	Issued for Tender	2018-04-24
2	Issued for B.P.	2018-04-25
3	Addendum 01	2018-05-04

project

THE PINES DINING HALL & SERVERY ADDITION

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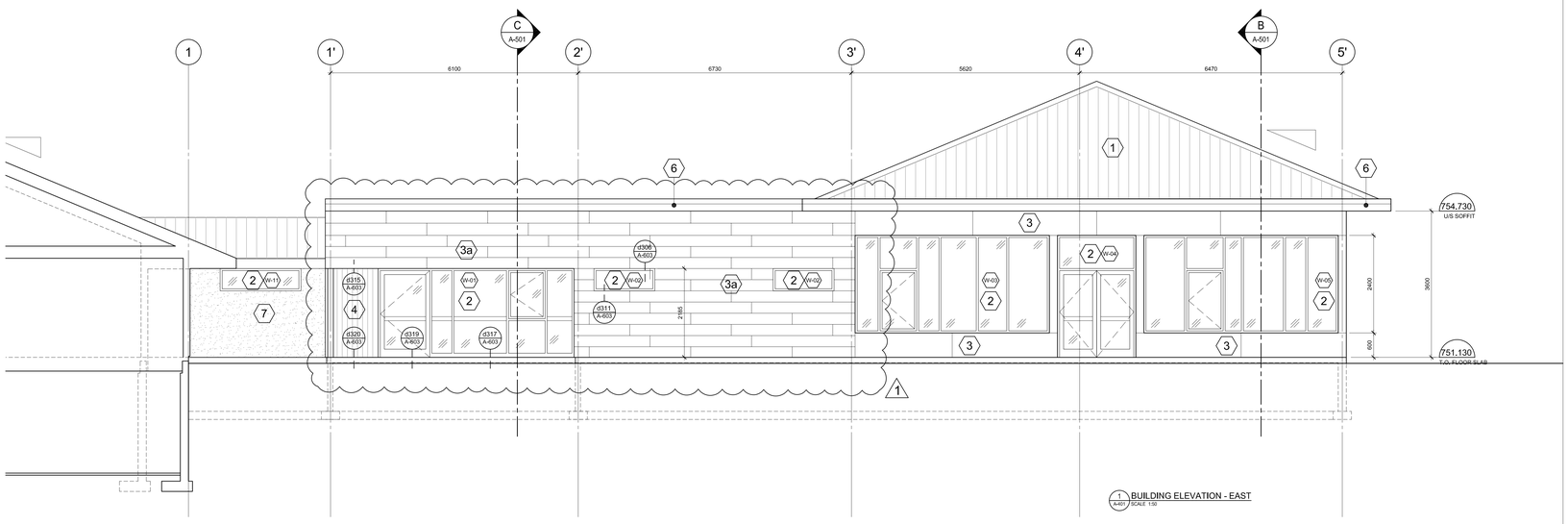
title

PLANS - EXISTING SITE DEMOLITION

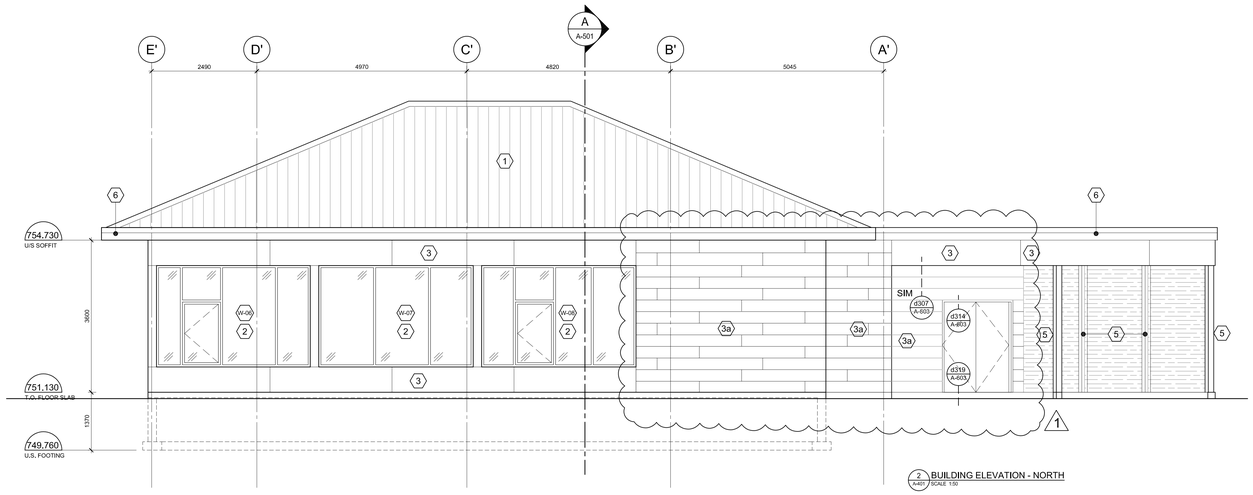
scale 1:100
date 2018.04.20
drawn
checked
seal
project no. 17-110
drawing no.

A-102

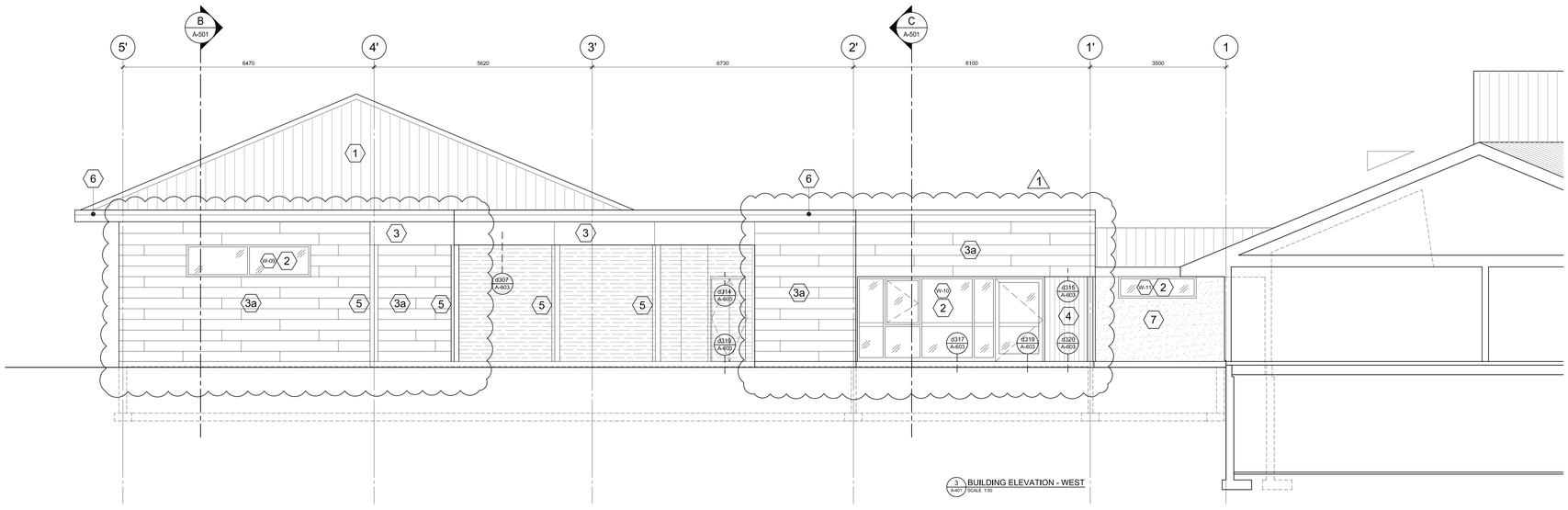
latest revision no. 2



1 A-401 BUILDING ELEVATION - EAST
SCALE 1:50



2 A-401 BUILDING ELEVATION - NORTH
SCALE 1:50



3 A-401 BUILDING ELEVATION - WEST
SCALE 1:50

ELEVATION KEYNOTES

1. PREFINISHED METAL ROOFING STYLE TO MATCH EXISTING
2. ALUMINIUM WINDOWS, CLEAR ANODIZED FINISH
3. PREFINISHED CEMENTITIOUS EXTERIOR PANELS.
3a. PREFINISHED CEMENTITIOUS EXTERIOR PLANKS.
4. CLEAR CEDAR WOOD SIDING STAINED FINISH
5. WOOD BEAMS & COLUMNS STAINED FINISH
6. WOOD FASCIA AND TRIM PAINTED FINISH
7. EXTERIOR STUCCO PAINTED FINISH TO MATCH EXISTING
8. 2 PLY SBS ROOF MEMBRANE
9. MECHANICAL R.T.U.
10. SCUPPER

DGBK

	revision / issue	date
1	Issued for Tender	2018-04-24
2	Issued for B.P.	2018-04-25
3	Addendum 01	2018-05-04

project

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title

BUILDING ELEVATIONS EAST, NORTH, WEST

scale 1:50
date 2017.11.27
drawn
checked
seal
project no. 17-110
drawing no.

A-401

latest revision no. 2

ELEVATION KEYNOTES

1 PREFINISHED METAL ROOFING STYLE TO MATCH EXISTING

2 ALUMINIUM WINDOWS, CLEAR ANODIZED FINISH

3 PREFINISHED CEMENTITIOUS EXTERIOR PANELS.

3a PREFINISHED CEMENTITIOUS EXTERIOR PLANKS.

4 CLEAR CEDAR WOOD SIDING STAINED FINISH

5 WOOD BEAMS & COLUMNS STAINED FINISH

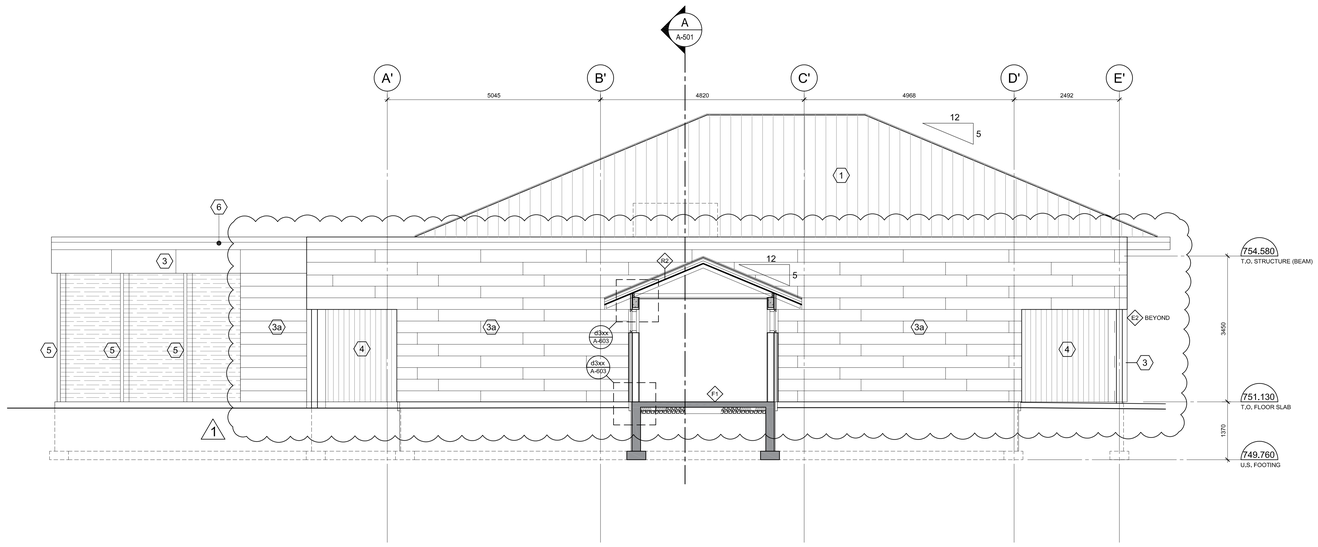
6 WOOD FASCIA AND TRIM PAINTED FINISH

7 EXTERIOR STUCCO PAINTED FINISH TO MATCH EXISTING

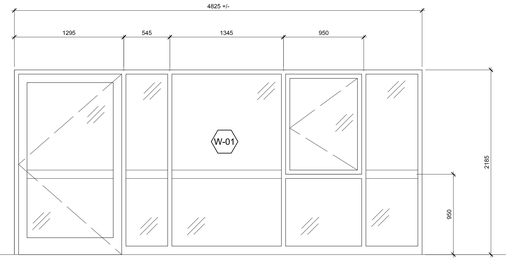
8 2 PLY SBS ROOF MEMBRANE

9 MECHANICAL R.T.U.

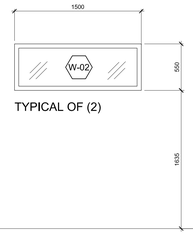
10 SCUPPER



4 A402 BUILDING ELEVATION - SOUTH
SCALE: 1:50



1 A202 TYPE W-01
SCALE 1:20



TYPICAL OF (2)

2 A202 TYPE W-02
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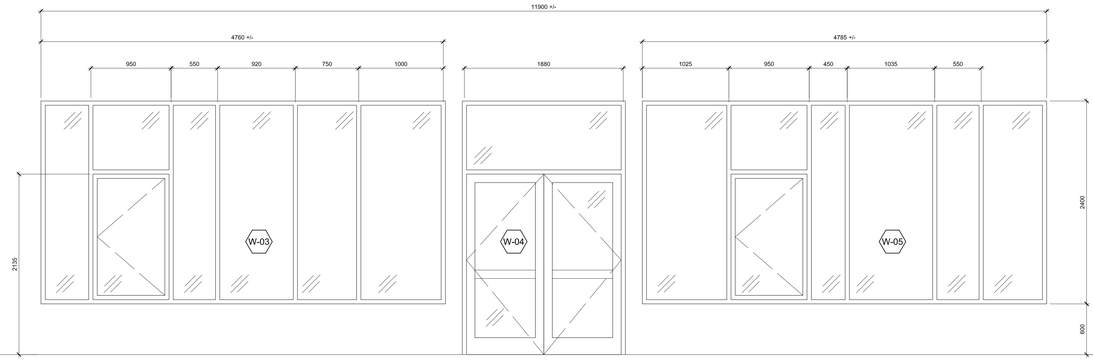
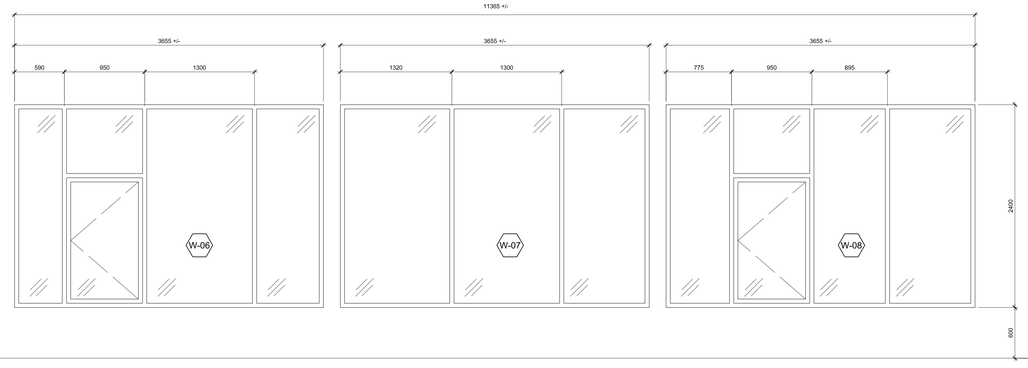


3 A202 TYPE W-03
SCALE 1:20

4 A202 TYPE W-04
SCALE 1:20

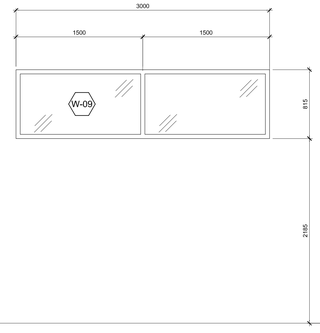
5 A202 TYPE W-05
SCALE 1:20



6 A202 TYPE W-06
SCALE 1:20

7 A202 TYPE W-07
SCALE 1:20

8 A202 TYPE W-08
SCALE 1:20



9 A202 TYPE W-09
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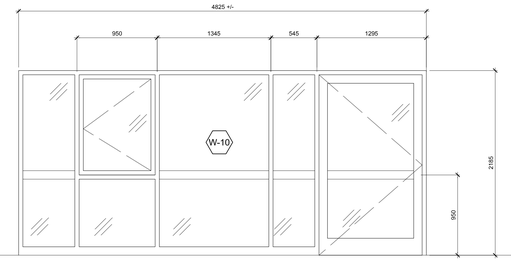

10 A202 TYPE W-10
SCALE 1:20

TYPICAL OF (2)

11 A202 TYPE W-11
SCALE 1:20

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	revision / issue	date
1	Issued for Tender	2018-04-24
2	Issued for B.P.	2018-04-25
3	Addendum 01	2018-05-04

project

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title

BUILDING ELEVATIONS SOUTH, WINDOW ELEVATIONS

scale AS NOTED
date 2017.11.27
drawn
checked
seal

project no. 17-110

drawing no. **A-402**

latest revision no. 2

L&M ENGINEERING LIMITED
1210 Fourth Avenue
Prince George, B.C. V2L 3J4
Tel. (250) 562-1977
Fax (250) 562-1967

CIVIL ADDENDUM NO. 1

Project: 1606-01

Date: May 2nd, 2018

PROJECT: **The Pines**
Dining Hall Addition

ARCHITECT: **DGBK Architects**

LOCATION: **Burns Lake BC**

OWNER: **Northern Health Authority**

This Addendum is issued prior to the close of Tenders to revise and/or clarify parts of the Contract Documents. This Addendum is part of the Contract Documents and in the case of conflict with the balance of the Documents, this Addendum shall govern. The Tender Period will not be extended as a result of this Addendum.

1. **Existing Irrigation System** –

   There is an existing irrigation system in the area of construction. The existing system is to be turned off at the rear of the building before demolition works. The existing system not under the new building footprint is to be retained and protected. Sprinkler heads and irrigation lines that are located in the new build area are to be removed and irrigation lines capped.

Per: Terry Fjellstrom

Terry Fjellstrom, P.Eng.

VALVES & SPRINKLERS THEY CONTROL

Irrigation shut-off

The following addendum supersedes information contained in drawings and specifications issued for the project to the extent referenced. This Addendum forms part of the Tender Documents and is subject to all of the conditions set out in the contract conditions.

1. DRAWINGS – MECHANICAL

1.1 Drawing M001 – Mechanical Equipment Schedules

.1 ADD Plumbing Fixture Schedule:

.1 **LAV-1 (Barrier Free Lavatory)**

American Standard Murro 0954.904EC/0059.020EC, wall-hung basin, 540mm x 520mm x 165mm high nominal dimensions, 3 holes, 102mm centres, vitreous china, no overflow, c/w semi-pedestal p-trap cover.

Faucet: American Standard 7500.170.002 Monterrey, two handles faucet, polishe chrome finish, brass, 1.9 LPM (0.5 GPM) laminar flow outlet, rigid gooseneck spout with 127mm (5") projection, 102mm (4") wrist blade handles.

Provide McGuire #155A open grid drain, McGuire #LFH170BVRB chrome plated polished brass supplies, 1/4 turn ball valve angle stops, escutcheon and stainless steel braided flexible risers, McGuire #8872C p-trap.

Wall Carrier: Watts WCA-411-CA-481 basin carrier with concealed arms.

.2 **WC-1 (Barrier Free Water Closet)**

American Standard Cadet 2467.600.020, floor mounted toilet, vitreous china with EverClean antimicrobial surface, elongated bowl with fully glazed internal trapway, bolt caps.

Flush Tank: 3483.001 bowl and 4142.600 bolted tank cover, minimum working pressure range of 20 psi to 80 psi maximum, 6 l (1.6 gal) per flush.

Seat: Centoco 500STSCC.001 toilet seat, heavy duty, elongated bowl, open front less cover, stainless steel check hinges, metal flat washers, stainless steel posts and nuts.

.3 **FD-1 (Floor Drain)**

Watts FD-100-C-DD, epoxy coated cast iron floor drain with anchor flange, reversible membrane clamp with primary and secondary weepholes, 6mm (1/4") thick 178mm (7") adjustable nickel bronze strainer with surface membrane clamp, 13mm (1/2") trap primer connection.

.4 **FD-2 (Floor Drain with Funnel)**

Watts FD-100-C-DD, epoxy coated cast iron floor drain with anchor flange, reversible membrane clamp with primary and secondary weepholes, 6mm (1/4") thick 178mm (7") adjustable nickel bronze strainer with surface membrane clamp, 13mm (1/2") trap primer connection, c/w 102mm (4") round nickel bronze funnel.

.5 **RD-1 (Roof Drain)**

Zurn Z-121-DP, 305mm (12") diameter roof drain, dura-coated cast iron body with combination membrane flashing clamp, top-set deck plate, and poly-dome, 76mm (3") pipe outlet.

.6 **RD-2 (Gutter Drain)**

Zurn Z185, 152mm (6") diameter cornice drain, dura-coated cast iron with 90° side outlet body, plain bronze dome and membrane flashing clamp, 76mm (3") pipe outlet.

The following addendum supersedes information contained in drawings and specifications issued for the project to the extent referenced. This Addendum forms part of the Tender Documents and is subject to all of the conditions set out in the contract conditions.

.7 **RD-3 (Gutter Drain)**

Zurn Z181, 152mm (6") diameter cornice drain, dura-coated cast iron bottom outlet body, plain bronze dome and membrane flashing clamp, 76mm (3") pipe outlet.

.8 **TD-1 (Trench Drain)**

ACO-KS100, 100mm width, 0.5% sloped sections, polymer concrete, V-shaped with galvanized steel edges c/w 447D/448D stainless steel, heel safe and K1-901G end catch basin pit with same grate as trench. Refer to drawings for overall trench length.

.9 **BFP-1 (1/2" Reduced Pressure Backflow Preventer)**

Watts 009, 12mm reduced pressure, all bronze body and seats, stainless steel internal parts. c/w soft seat check valves and unions.

.10 **BFP-2 (3/4" Double Check Valve Backflow Preventer)**

Watts 007, 20mm double check valve, all bronze body and seats, stainless steel internal parts. c/w soft seat check valves and unions.

.2 ADD Grease Interceptor Schedule:

.1 **GI-1 (Grease Interceptor)**

Zurn Z1172, large capacity grease interceptor, size 1100, 102mm (4") inlet and outlet, 473 LPM (125 GPM) flow rate, 114 kg (250 lb) grease capacity, heavy duty traffic cover rated for 10,000 lb, dura-coated exterior fabricated steel extension section to suit grade.

1.2 Drawing M001 Mechanical Motor List

.1 RTU-1: REVISE MCA to 70 amps.

.2 EFF-1 and BBH-1: REVISE to DDC control.

1.3 Drawing M001 Packaged Gas Fire Rooftop Unit

.1 RTU-1:

.1 REVISE fan HP to 5.0 and MCA to 70 amps

.2 REPLACE note #18 with "provide terminal strip for DDC system to control fan start/stop, 2 stages of heating and 2 stages of cooling.

.3 ADD note #19: "Contractor to adjust and or change belts and sheaves to obtain required air volumes as shown on drawings".

1.4 Drawing M001 Diffuser, Grille and Register Schedule

.1 ADD R-2: Return Grille Perforated Price 10/F/A/B12 surface mounted.

1.5 Drawing M102 Plumbing Plan

.1 At grid B'/5' RWL to run within perimeter wall and be insulated as per specifications.

1.6 Drawing M103 Roof Plan

.1 At grids A'/4' REVISE RD-2 to RD-3.

The following addendum supersedes information contained in drawings and specifications issued for the project to the extent referenced. This Addendum forms part of the Tender Documents and is subject to all of the conditions set out in the contract conditions.

1.7 Drawing M401 HVAC Plan

.1 On the existing building the main outdoor air intake is located just west of grids A'/1'. Contractor to install temporary filters over intake louvres. Include in price for 2 replacements during construction.

.2 At grids A'/1' and E'/1' add EFF-1 each c/w thermostat (DDC sensor).

.3 On west and east perimeter walls of Connector Corridor install BBH-1 0.75 kw. Provide one DDC sensor to control the 2 heaters. Locate sensor on west wall just south of grid 1'.

.4 Dining Hall Electric Baseboard Thermostats

.1 Provide 3 DDC sensors to control radiation on each exposure: 1 @ A'/4', 1 @ B'/5' and one @ E'/3'.

1.8 Drawing M501 Partial Plans

.1 Detail 5 Water Entry and Sprinkler Station

.1 The existing 65mm water entry station is being replaced with a new 100mm station c/w 2 backflows, PRV's and District Meter. Given that the water service is critical to the operation of the facility, minimal shut down times for replacement is necessary. The contractor will need to prefab the station either on site or off site. The water will be shut down from 9:00 pm until 6:00 am to allow for the water entry station replacement. During this time the facility will make arrangements for their water usage. The contractor is to ensure that they have sufficient trades people on site in order to replace the station within the time frame.

.2 Prior to start of work, Mechanical Contractor to provide a work schedule prior to commencement of work.

1.9 Drawing M501 Partial Plans

.1 Detail 7 New Wet and Dry Sprinkler Zones

.1 During the new zone sprinkler tie in the building sprinkler system will need to be shut down. Sprinkler Contractor will need to co-ordinate with Northern Health for a fire watch. Assume that a fire watch will be required during all times that the sprinkler system is shut down.

1.10 Drawing M701 Specifications:

.1 Section 9: Controls

.1 Control system to be Reliable Controls installed by and Authorized Reliable Controls Contractor.

.2 The addition's HVAC system is to be controlled by the base building Reliable Controls system. Provide new panels or expansion to existing panels to suit the new equipment in the addition. Provide graphics. Locate any new panels adjacent to existing panels.

.3 All sensors to match base building system

The following addendum supersedes information contained in drawings and specifications issued for the project to the extent referenced. This Addendum forms part of the Tender Documents and is subject to all of the conditions set out in the contract conditions.

.4 Sequence of Operation:

.1 EFF-1 Electric Force Flow: Heater comes with 24volt transformer. Heater to be energized based upon space temperature sensor input.

.2 BBH-1 Electric Base Board Heater: Base board heaters come with 24volt transformer. Heaters to be energized based upon space temperature sensor input. Refer to drawings for number of heaters to be controlled by single thermostat/sensor.

.3 EF-1 Washroom Exhaust Fan: Provide start/stop and status for fan.

.4 EF-2 Dishwasher Canopy Exhaust Fan: Local line voltage switch to control fan. All work by Electrical Contractor.

.5 SF-1 Pressurization Fan: Provide start/stop and status for fan.

.6 RTU-1 Constant Volume Gas Fired Electric Cooled Roof Top Unit:

- Unit comes with a terminal strip for DDC system to control fan start/stop, 2 stages of cooling and 2 stages of heating.
- Disconnect existing ecomomizer controls on unit and provide DDC control of existing actuators.
- Provide new Outdoor Air sensor to control economizer controls for free cooling.
- Provide CO2 sensor in space to control outdoor air volumes during nonfree cooling times. During heating season CO2 sensor to control outdoor air damper – damper to open to maximum 30%.
- Provide current sensor on each compressor for status input point.
- Provide current sensor on supply fan for status input point
- Provide dirty filter pressure sensor and input point.
- Provide supply air temperature sensor and input point.
- Provide space temperature sensor to provide input point.
- Provide unitary controller to new and existing points.
- Provide controls strategy to ensure perimeter electric baseboard heaters are not energized when RTU in cooling mode.
- At the end of the project provide end to end testing, controls commissioning report and a demonstration to the Owner.

END OF MECHANICAL ADDENDUM NO. **1**

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ASBESTOS CONTAINING BUILDING MATERIALS ASSESSMENT REPORT

LAKES DISTRICT HOSPITAL

BURNS LAKE, BC

DISTRICT HOSPITAL
NURSES RESIDENCE
THE PINES LONG TERM CARE FACILITY

Prepared for:

NORTHERN HEALTH
700-299 Victoria Street
Prince George, BC
V2L-5B8

Prepared by:

Peak Earth and Environmental Consulting Inc.
951 Pinewood Place
Kelowna, BC V1Z 3G7
Stephen Ferguson, AScT. *President*
File: 1080 Lakes District Hosptial Site Asbestos R01

The site survey for this December 29, 2008 report was completed on: November 6, 2008 All observation and conditions herein are respective to these dates.

1.0 EXECUTIVE SUMMARY

Peak Earth and Environmental Consulting Inc. were retained by Northern Health to perform an assessment and review of the Lakes District Hospital Site for asbestos-containing building materials. The purpose of this survey was to collected samples of building finishes to determine their asbestos content, provide quantities, locations, remediation cost estimates and associated building occupant risk regarding asbestos-containing materials located within each building included on the site.

Asbestos-containing building materials identified within various facilities are noted on the attached summary sheets, spreadsheets and drawings for each facility. These documents should be reviewed to ascertain the exact location of asbestos applications within this building or buildings on this site.

Contractors performing work within this facility must review these documents prior to performing their work duties to ensure that asbestos applications are not inadvertently disturbed, resulting in the possible release of asbestos fibres into the ambient air.

Contractors working on this site must also complete the sign-off sheet attached to these documents, stating that they have reviewed the spreadsheets and drawings and are aware of the asbestos applications located within this facility.

2.0 METHODOLOGY

Samples of suspect asbestos-containing building materials were collected from areas to minimize damage to finished surfaces and were sent to and accredited laboratory for analysis. Samples were analyzes in accordance with NIOSH 9002 methodologies with a detection limit of 1% to determine their asbestos content. As outlined in the Workers' Compensation Board of BC Regulation, all materials containing one percent (1%) or greater of asbestos are considered to be asbestos containing.

Representative samples of drywall fillers were collected from each building and from each visible renovation area within the building. Samples of vinyl flooring and ceiling tiles were collected based on visible size, color and pattern. Flooring and ceiling tile applications with the same surface coloring and patterns were considered a homogeneous application throughout the building. Representative samples of each separate application were collected and analyzed for asbestos content.

Where multiple drywall samples were collected and a mix of asbestos and non-asbestos drywall was found, all drywall applications in that facility were considered to be asbestos containing. Additional samples of drywall filler should be collected prior to any work, which may impact finished drywall applications, resulting in the possible release of asbestos fibres into the ambient air.

Concrete block walls were inspected for the presence of vermiculite insulation and where present they have been identified in the spreadsheets included in this report and are to be considered contaminated with asbestos fibers.

Visual identification of some materials was performed. Materials such as pre 1978 insulating cements, corrugated paper pipe insulation and cement boards are known to contain asbestos. If these materials were identified, they were noted as being asbestos-containing and no verification samples were collected. Similarly, new application ceiling tiles and vinyl flooring applications, identified as being circa 1990 applications, were considered to be non-asbestos with no verification samples collected.

No sampling of building finishes or membranes was performed where sample collection would cause or create a leak or irreversible damage to the building of building finishes or systems.

3.0 BUILDING OCCUPANT RISK OF EXPOSURE AND WORKER PROTECTION REQUIREMENTS

Friable asbestos-containing materials, such as insulating cements, ceiling textures, mechanical insulation and asbestos paper products pose the greatest risk of exposure to building occupants as they are easily crumbled by hand releasing airborne asbestos fibres when damaged or exposed. Non-friable materials, such as vinyl flooring and cement asbestos board pose a lesser risk as they are not easily crumbled by hand and must be broken or mechanically abraded to release asbestos fibres.

There is an increased risk of asbestos fibre release if asbestos applications are disturbed through renovation or maintenance activities that will abrade the material, releasing asbestos fibres to the ambient air. There would also be an elevated risk of asbestos exposure through dry burnishing of vinyl floor tile applications. Dry burnishing activities should not be performed on asbestos floor tile applications.

Currently there is no risk of exposure to airborne asbestos from asbestos applications located in this facility provided they remain intact and un-damaged.

Friable asbestos applications located in un-controlled locations such as corridors or washrooms, or where located adjacent to air movement equipment or found to be in poor or damaged condition, have been prioritized for abatement. Friable applications located in areas where control and access is limited are scheduled for phased removal.

All remaining non-friable asbestos applications have been scheduled for removal in conjunction with planed building renovation or maintenance work or abatement prior to work, which may impact and damage the asbestos applications.

All asbestos applications identified in this report should be routinely inspected to ensure their condition has not deteriorated, resulting in the exposure of the asbestos application. Damaged and exposed asbestos application should be immediately removed by a qualified asbestos abatement contract.

4.0 AREAS OF RESTRICTED ENTRY DUE TO POOR CONDITION ASBESTOS APPLICATIONS

No areas of poor condition asbestos or areas, which would require special entry procedures, were noted in this facility.

Asbestos containing insulating cement materials located on mechanical pipe fittings in the crawlspace areas of the Main Hospital Building and Nurse Residence were found to be in poor and deteriorated condition. Entry to these spaces must be performed utilizing appropriate personal protective equipment and moderate risk work procedures to prevent worker or building occupant exposure to asbestos fibers released from these asbestos applications.

Areas with poor or deteriorated condition asbestos insulation were also observed within various areas of the Main Hospital Building and Nurse Residence. Removal or repair of damaged asbestos insulating materials is required to prevent potential exposure to airborne asbestos fibers released from damaged applications if disturbed.

5.0 REMEDIAL WORK

PHASED REMOVAL WORK

- All friable asbestos-containing applications located in un-controlled areas (corridors and washroom areas) should be scheduled for abatement. Due to the fact that these applications can be damaged without the knowledge of the maintenance department these applications should be routinely inspected for damage and delamination. Any damaged, delaminating or exposed asbestos materials should be removed, repaired or enclosed to prevent the possible release of asbestos fibres.
- All Friable asbestos-containing materials should be removed in conjunction with planned building maintenance, abatement or renovation activities.

MANAGEMENT

- All friable and non-friable materials remaining within this building should be managed in-place, prior to abatement, with a bi-annual or quarterly inspections to ensure their condition has not deteriorated, resulting in the possible release of asbestos fibres. Any materials showing signs of damage, delamination or exposed asbestos should be repaired or abatement.
- Vinyl asbestos flooring should be inspected for delamination, cracking or wearing that has exposed the asbestos paper backing. Sections of flooring with exposed paper backing should be removed to prevent the release of asbestos fibres into the ambient air.
- Asbestos-containing materials identified within this report should be identified as containing asbestos and maintenance and custodial staff should be trained in the safe handling of asbestos in accordance with WCB regulations.

All materials identified in this report must be removed prior to any work that may impact asbestos applications resulting in the release of asbestos fibres.

6.0 LIMITATIONS

This report is for the purpose of asbestos identification only. All observations were recorded at the time of the initial site inspection. Instances may occur were changes in condition and resultant building occupant risk have occurred from the time of the initial inspection to the production of this report. Peak Earth and Environmental Consulting Inc. accept no liability for such changes and resultant change in exposure risk to building occupants.

Site conditions and building construction may have not permitted the complete inspection of some void spaces. These spaces may contain asbestos applications not identified by this report. Any suspect materials, located within void spaces should be inspected and/or tested to determine if they containing asbestos.

Where possible, inspection of sub-flooring applications located beneath carpeting and vinyl flooring materials was performed. Where a second layer of vinyl flooring material was discovered, samples were collected to determine their asbestos content. No inspection of sub-flooring applications was performed once a structural member was discovered (i.e. wood or concrete). There is a possibility that subsequent asbestos flooring applications, not identified in this report, may be located beneath carpeting, false floors or a covering layer of non-asbestos flooring. Any suspect materials sandwiched between multiple flooring layers should be inspected or tested to determine if they containing asbestos.

ASBESTOS LOCATION SUMMARY
AND
CONTRACTOR SIGN OFF SHEET

NORTHERN HEALTH

ASBESTOS EXPOSURE AND CONTROL PLAN
ASBESTOS CONTAINING BUILDING MATERIALS SUMMARY

LAKES DISTRICT HOSPITAL SITE
Burns Lake, BC

The following asbestos applications have been identified within the above noted facility. The attached asbestos location drawings and spreadsheets should be reviewed for the exact location of all known asbestos applications within this facility.

MAIN HOSPITAL BUILDING

FRIABLE ASBESTOS APPLICATIONS

- Asbestos insulating cement is located on hot water pipe fittings located randomly throughout the building.
- Asbestos insulating cement is located on domestic hot water tanks and heat exchangers in the basement Boiler Room and Fan Room areas of the building.
- Asbestos paper insulating pads are located on randomly incandescent lighting located randomly throughout the building.

NON-FRIABLE ASBESTOS APPLICATIONS

- Cement asbestos board is located in the main floor Pantry Room wall.
- Vinyl asbestos floor tiles are located randomly throughout the building.

NURSES RESIDENCE BUILDING

FRIABLE ASBESTOS APPLICATIONS

- Asbestos insulating cement is located on hot water pipe fittings located randomly throughout the building.
- Asbestos paper insulating pads are located on randomly incandescent lighting located randomly throughout the building.
- Asbestos paper backed vinyl Corlon floor sheeting is located in various areas throughout the building.

NON-FRIABLE ASBESTOS APPLICATIONS

- No non-friable asbestos applications were identified in this building.

THE PINES LONG TERM CARE FACILITY

No asbestos containing building materials were identified or suspected within this building.

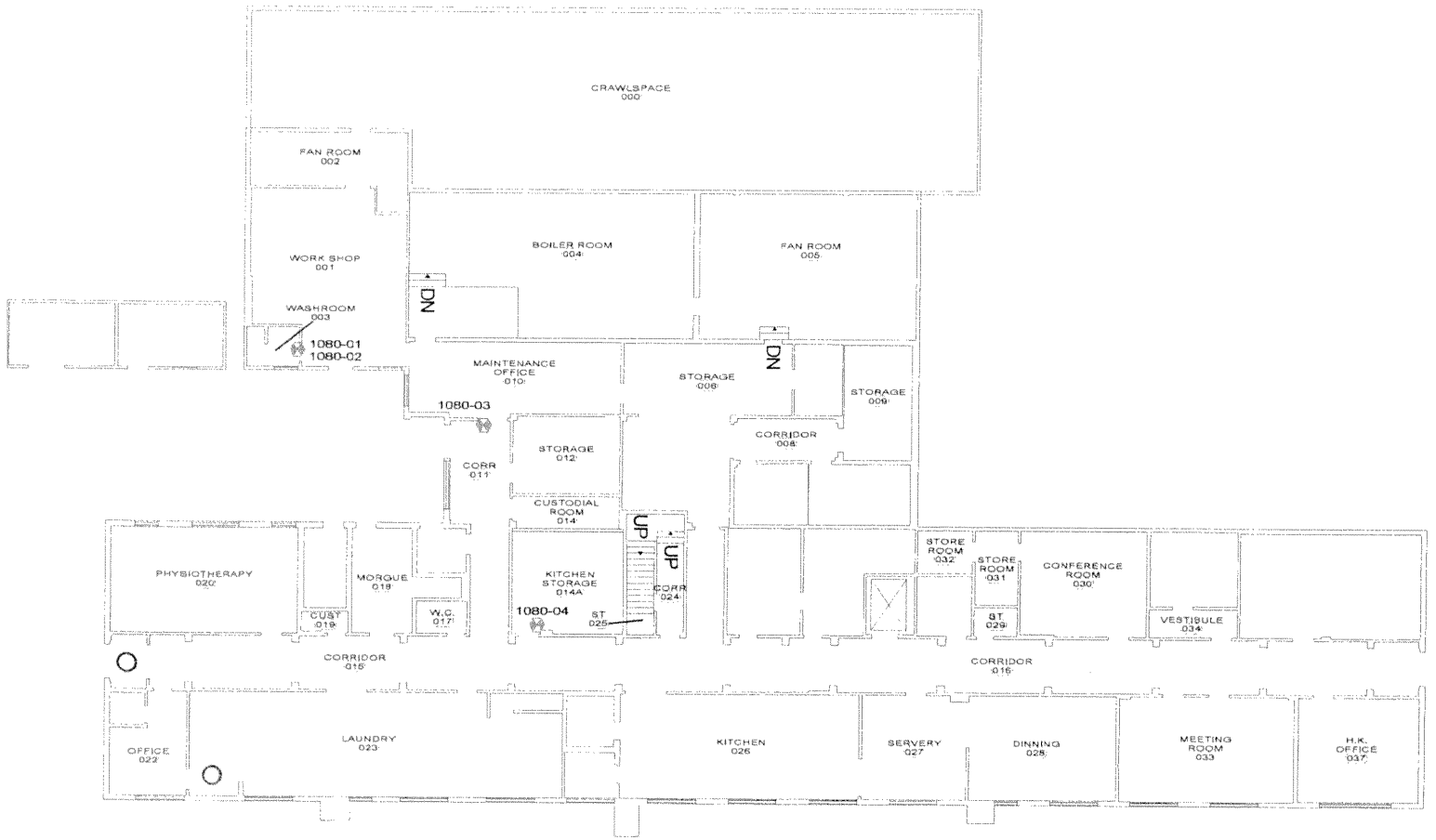
CONTRACTOR SIGN-OFF SHEET

By signing below, you have been informed as to the location of all known and suspected asbestos applications located within the facilities on this site. You the contractor will make all efforts to direct your work duties so as to NOT disturb known asbestos or suspect asbestos applications. IF, through your work, asbestos applications are to be disturbed or have been inadvertently disturbed, it is your responsibility to inform the maintenance staff who will direct the clean-up or removal of asbestos applications in way of your proposed renovation work.

COMPANY NAME	SIGNATURE	DATE

MAIN HOSPITAL BUILDING

ASBESTOS LOCATION DRAWINGS
AND
LOCATION SPREADSHEETS



NOTE:
ASBESTOS PIPE INSULATION LOCATED IN THE CRAWLSPACE AREA IS IN POOR CONDITION. MODERATE RISK PERSONAL PROTECTIVE EQUIPMENT AND WORK PROCEDURES ARE REQUIRED FOR ENTRY IN TO THIS SPACE.

ASBESTOS APPLICATIONS NOT SHOWN ON DRAWING

ASBESTOS PIPE INSULATION LOCATED ON PIPE FITTINGS IN VARIOUS EXPOSED AND CONCEALED AREAS THROUGHOUT THE BASEMENT AREA OF THE BUILDING.

ASBESTOS INSULATION IS LOCATED ON DOMESTIC HOT WATER TANKS IN THE BOILER ROOM.

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Project No.: 1080

Drawing:

ASBESTOS CONTAINING BUILDING MATERIALS LOCATIONS

Title:

LAKE DISTRICT HOSPITAL BASEMENT FLOOR

741 Centre Street
Burns Lake, BC

Owner:

northern health

Legend:

- VINYL ASBESTOS FLOORING
- INCANDESCENT LIGHTING ASBESTOS INSULATING PAD
- BULK SAMPLE LOCATION AND SAMPLE NUMBER

Date: 12.28.2008
Revision:
Scale: 1 : 300
Drawn by: S.Ferguson

DRAWING NUMBER
1080 ASB 1.2

PEAK EARTH AND ENVIRONMENTAL CONSULTING INC.
951 Pinewood Place
Kelowna, BC V1Z 3G7
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Project No.: 1080

Drawing:

ASBESTOS CONTAINING BUILDING MATERIALS LOCATIONS

Title:

LAKE DISTRICT HOSPITAL
UPPER FLOOR

741 Centre Street
Burns Lake, BC

Owner:

northern health

Legend:

- VINYL ASBESTOS FLOORING
- INCANDESCENT LIGHTING ASBESTOS INSULATING PAD
- CEMENT ASBESTOS BOARD ON WALLS
- BULK SAMPLE LOCATION AND SAMPLE NUMBER

Date: 12.28.2008
Revision:
Scale: 1 : 300
Drawn by: S.Ferguson

DRAWING NUMBER
1080 ASB 2.2

BUILDING & FUNCTIONAL AREA (room # and description)	ID CODE DESCRIPTION AND APPLICATION	VIS	CONDITION	ACCESSIBILITY	FRIABILITY	QUANTITY	UNIT	FOOT NOTES
LAKES DISTRICT HOSPITAL								
BASEMENT FLOOR								
000 Crawlspace	C1 - Insulating Cement	L	Fair	High	High	250	FTG	/
001 Work Shop	C1 - Insulating Cement	L	Good	High	High	30	FTG	
002 Fan Room	C1 - Insulating Cement	L	Good	High	High	50	FTG	
003 Washroom	C1 - Insulating Cement	L	Good	High	High	8	FTG	
003 Washroom	H1- Floor Tile		Good	High	Low	45	SF	
004 Boiler Room	D1 - Tank Insulation	L	Good	High	High	2	Unit	
004 Boiler Room	C1 - Insulating Cement	L	Good	High	High	165	FTG	
004 Boiler Room	C1 - Insulating Cement	L	Poor	High	High	60	FTG	
005 Fan Room	C1 - Insulating Cement	L	Good	High	High	125	FTG	
005 Fan Room	C1 - Insulating Cement	L	Poor	High	High	25	FTG	
005 Fan Room	D2 - Tank Insulation	L	Fair	High	High	2	Unit	
006 Store Room	C1 - Insulating Cement	L	Good	High	High	40	FTG	
008 Corridor	C1 - Insulating Cement		Good	High	High	6	FTG	
009 Store Room	C1 - Insulating Cement		Good	High	High	13	FTG	
010 Maintenance Office	C1 - Insulating Cement		Good	High	High	20	FTG	
011 Corridor	C1 - Insulating Cement	AF	Good	High	Low	25	FTG	
011 Corridor	H2- Floor Tile		Good	High	Low	240	SF	
012 Store Room	C1 - Insulating Cement	L	Good	High	High	5	FTG	
014 Custodial Room	C1 - Insulating Cement	L	Good	High	High	6	FTG	
014 Custodial Room	C1 - Insulating Cement	L	Poor	High	High	2	FTG	
014A Kitchen Store room	C1 - Insulating Cement	L	Good	High	High	24	FTG	
015 Corridor	C1 - Insulating Cement	AF	Good	High	Low	40	FTG	
015 Corridor	H2- Floor Tile		Good	High	Low	460	SF	
015 Corridor	L1 - Insulating Pad		Poor	Mod	High	1	Unit	
016 Corridor	C1 - Insulating Cement	AF	Good	High	Low	30	FTG	
016 Corridor	H1- Floor Tile		Good	High	Low	510	SF	
016 Corridor	H2- Floor Tile		Good	High	Low	560	SF	
016 Corridor	C1 - Insulating Cement	AF	Good	High	Low	50	FTG	
017 Washroom	H2- Floor Tile		Good	High	Low	40	SF	
018 Morgue	H2- Floor Tile		Good	High	Low	145	SF	
019 Custodial Room	H2- Floor Tile		Good	High	Low	20	SF	
020 Physiotherapy	C1 - Insulating Cement	AF	Good	High	Low	25	FTG	//
020 Physiotherapy	H2- Floor Tile		Good	High	Low	440	SF	
023 Laundry Room	C1 - Insulating Cement	AF	Good	High	Low	20	FTG	
023 Laundry Room	C1 - Insulating Cement	L	Good	High	High	12	FTG	
023 Laundry	H1- Floor Tile		Good	High	Low	125	SF	
023 Laundry	H2- Floor Tile		Good	High	Low	175	SF	
023 Laundry	L1 - Insulating Pad		Poor	Mod	High	1	Unit	
024 Stairwell Corridor	H2- Floor Tile		Good	High	Low	60	SF	
025 Under Stair Storage	H2- Floor Tile		Good	High	Low	15	SF	
026 Kitchen	C1 - Insulating Cement	AF	Good	High	Low	20	FTG	
027 Servery	C1 - Insulating Cement	AF	Good	High	Low	10	FTG	
027 Servery	H1- Floor Tile		Good	High	Low	240	SF	
028 Dinning Area	C1 - Insulating Cement	AF	Good	High	Low	15	FTG	
028 Dinning Area	H1- Floor Tile		Good	High	Low	345	SF	
029 Store Room	H1- Floor Tile		Good	High	Low	30	SF	
030 Conference Room	H1- Floor Tile		Good	High	Low	300	SF	
030 Conference Room	C1 - Insulating Cement	AF	Good	High	Low	5	FTG	
031 Store Room	H1- Floor Tile		Good	High	Low	75	SF	
032 Store Room	H1- Floor Tile		Good	High	Low	55	SF	
032 Store Room	C1 - Insulating Cement	AF	Good	High	Low	1	FTG	
033 Meeting Room	C1 - Insulating Cement	AF	Good	High	Low	8	FTG	
034 Vestibule	H1- Floor Tile		Good	High	Low	60	SF	
034 Vestibule	C1 - Insulating Cement	AF	Good	High	Low	6	FTG	
036 Meeting Room	C1 - Insulating Cement	AF	Good	High	Low	6	FTG	
037 Housekeeping Office	H1 / H2 - Floor Tile		Good	High	Low	280	SF	
037 Housekeeping Office	C1 - Insulating Cement	AF	Good	High	Low	12	FTG	

ASBESTOS CONTAINING MATERIAL LOCATIONS

BUILDING & FUNCTIONAL AREA (room # and description)	ID CODE DESCRIPTION AND APPLICATION	VIS	CONDITION	ACCESSIBILITY	FRIABILITY	QUANTITY	UNIT	FOOT NOTES
LAKES DISTRICT HOSPITAL								
UPPER FLOOR								
100A Store Room	H1- Floor Tile		Good	High	Low	35	SF	
103 Washroom	L1 - Insulating Pad		Fair	Mod	High	1	Unit	
106 Store Room	L1 - Insulating Pad		Fair	Mod	High	1	Unit	
113 Pantry	J1 - Cement Board		Good	High	Low	50	SF	
116 Store Room	L1 - Insulating Pad		Poor	Mod	High	1	Unit	
136 Custodial Room	L1 - Insulating Pad		Poor	Mod	High	1	Unit	
158 Custodial Room	L1 - Insulating Pad		Poor	Mod	High	1	Unit	
161 Maternity Store Room	L1 - Insulating Pad		Poor	Mod	High	1	Unit	
173 Custodial Room	L1 - Insulating Pad		Poor	Mod	High	1	Unit	
PENTHOUSE								
200 Penthouse Fan Room	C1 - Insulating Cement		Good	High	High	75	FTG	

FOOT NOTES:

/ Asbestos insulating cement in this location is in poor condition. Entry to this space must be performed utilizing appropriate personal protective equipment and moderate risk work procedures.

// Assumed asbestos application, no access to this room was possible during our assessment of the facility.

GENERAL NOTES:

1. Abatement and re-application costs are based on individual applications. Prices will vary dependent upon timing and scope of work. It is recommended that revised budget numbers be prepared once an abatement scope of work is ascertained.
2. Functional area numbers are representative of the survey drawings provided with this report and may not indicate actual room numbers.
3. Only known and visible asbestos materials are listed. There is a distinct possibility that asbestos materials may be present in wall, ceiling and floor void spaces not identified in this report. Any materials located in void spaces should be sampled for asbestos content prior to disturbance.
4. This is an occupied building assessment for asbestos containing materials. No sampling of building membrane materials was conduced there such sampling could breath the water tightness of the building. Additionally, applications routinely sampled prior to building demolition were not assessed through this inspection, concealed flooring applications beneath covering flooring and sub-flooring materials, where coring would be required to identified concealed materials, was not performed. A pre-demolition assessment should be performed prior to building demolition.

FRIABILITY	**CONDITION**
HIGH (easily crumbled by hand)	GOOD (no visible signs of disturbance)
MED (not easily crumbled by hand)	FAIR (visible signs of disturbance, no debris noted on ground)
LOW (tool or implement required to disturb)	POOR (delamination/deterioration evident/imminent, may have debris on ground)
ACCESSIBILITY	**VIS (VISIBILITY)**
LOW (material concealed or enclosed)	Applications are exposed unless otherwise noted
MED (material exposed but out of hand reach)	AF - Application concealed above fixed ceilings
HIGH (material exposed and within hand reach)	L - Low application height <8'

PEAK EARTH AND ENVIRONMENTAL CONSULTING INC.
250-862-0971 / 1-877-518-PEAK (Toll Free)

BUILDING & FUNCTIONAL AREA (room # and description)	ID CODE DESCRIPTION AND APPLICATION	VIS	CONDITION	ACCESSIBILITY	FRIABILITY	QUANTITY	UNIT	FOOT NOTES

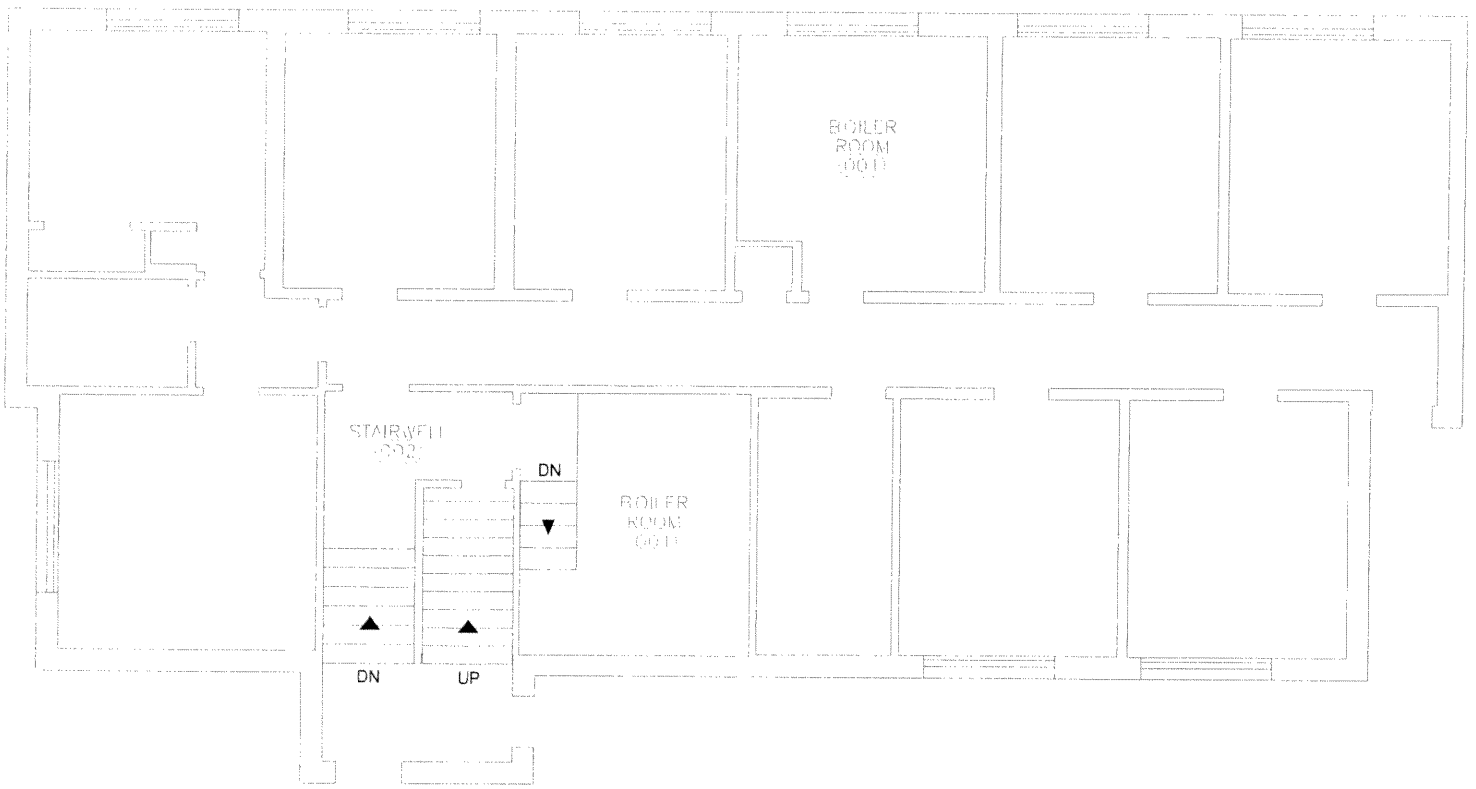
LAKES DISTRICT HOSPITAL

SURVEYED MATERIALS DESCRIPTIONS AND SAMPLE NUMBERS			
ID CODE	*AND VISUAL DESCRIPTION*	*SAMPLE No.*	*ASBESTOS CONTENT*
A1	Soft Stipple Ceiling Texture - Nurses Office 111	1080-07	Non-Asbestos
C1	Grey Fibrous Pipe Fitting Insulating Cement - Penthouse Fan Room 300	Not Sampled	Known Asbestos Application
D1	Domestic Hot Water Tank Insulating Cement - Basement Boiler Room 003	Not Sampled	Known Asbestos Application
D2	Heat Exchanger Tank - Basement Fan Room 005	Not Sampled	Known Asbestos Application
G1	1x1' Donna Conna Compresses Cellulose Ceiling Tile - Basement Corridor 011	Not Sampled	Known Non-Asbestos Application
G2	1x1' Large and Small Holed Donna Conna Compresses Cellulose Ceiling Tile - Basement Laundry Room 023	Not Sampled	Known Non-Asbestos Application
G3	2x4' Textured Finish Compresses Cellulose Ceiling Tile - Basement Dinning Room 028	Not Sampled	Known Non-Asbestos Application
G4	1x1' Holed and Textured Finish Donna Conna Compresses Cellulose Ceiling Tile - Nurses Station 117	Not Sampled	Known Non-Asbestos Application
G5	2x4' Short Omni-Directional Fissures with Large and Small Pinhole Ceiling Tile - Lab 133	Not Sampled	Known Non-Asbestos Application
H1	12x12" Beige with Minimal Thin Brown Streaked Vinyl Floor Tile - Basement Washroom 003	1080-01	3% Chrysotile Asbestos
H2	9x9" Brown with Brown and White Streaked Vinyl Floor Tile - Basement Corridor 011	1080-03	3% Chrysotile Asbestos
H3	12x12" Marble Pattern New Vinyl Floor Tile - Quite Room 120	Not Sampled	Known Non-Asbestos Application
H4	12x12" White with Large and Small Grey and Brown Splotched Composite Floor Tile - Operating Room 150	Not Sampled	Known Non-Asbestos Application
H5	12x12" Dark Brown with Small Black Splotched Composite Floor Tile - Operating Room 151	Not Sampled	Known Non-Asbestos Application
I1	Beige with Small Cream and Brown Splotched Pattern Tarkett Vinyl Floor Sheeting - Basement Office 022	Not Sampled	Known Non-Asbestos Application
I10	White 10" Square Pattern Paper Backed New Corlon Vinyl Floor Sheeting - Dr. Lounge 131	Not Sampled	Known Non-Asbestos Application
I11	Beige, Brown and Dark Brown Swirl Pattern Jute Backed Marmoleum Floor Sheeting - Maternity 160	Not Sampled	Known Non-Asbestos Application
I2	Brown with Brown and Cream Splotched Pattern Jute Backed Marmoleum Floor Sheeting - Reception 100	Not Sampled	Known Non-Asbestos Application
I3	Beige with Brown and Cream Swirl Pattern Jute Backed Marmoleum Floor Sheeting - Corridor 101	Not Sampled	Known Non-Asbestos Application
I4	Beige with Short Brown Streaked New Foam Core Vinyl Floor Sheeting - Washroom 103	Not Sampled	Known Non-Asbestos Application
I5	Grey with Dark Grey and Cream Splotched Pattern Jute Backed Marmoleum Floor Sheeting - Public Health Nurse Office 104	Not Sampled	Known Non-Asbestos Application
I6	Beige with Long Brown Streaked Foam Core Vinyl Floor Sheeting - Washroom 110A	1080-05	Non-Asbestos
I7	Beige, Brown and Cream Random Size Stone Pattern Paper Backed Corlon Vinyl Floor Sheeting - Public Health Nurse Washroom 111A	1080-06	Non-Asbestos
I8	White with Random Sized Blue and Cream Splotched Paper Backed New Corlon Vinyl Floor Sheeting - Washroom 115A	Not Sampled	Known Non-Asbestos Application
I9	Blue with Blue and Cream Streaked New Foam Core Vinyl Floor Sheeting - X-Ray 125	Not Sampled	Known Non-Asbestos Application
J1	Terrazzo Pattern Cement Asbestos Board - Pantry 113	Not Sampled	Known Asbestos Application
L1	Incandescent Lighting Gray Paper Insulating Pad - Basement Corridor 015	Not Sampled	Known Asbestos Application
P1	Drywall Filler - Basement Washroom 003	1080-02	Non-Asbestos
P2	Finished Plaster - Basement Kitchen Stores 014A	1080-04	Non-Asbestos
S1	Exterior Acrylic Stucco - Exterior	Not Sampled	Known Non-Asbestos Application

NURSES RESIDENCE BUILDING

ASBESTOS LOCATION DRAWINGS
AND
LOCATION SPREADSHEETS

BASEMENT FLOOR PLAN



NOTE:
ASBESTOS PIPE INSULATION LOCATED IN THE CRAWLSPACE AREA IS IN POOR CONDITION. MODERATE RISK PERSONAL PROTECTIVE EQUIPMENT AND WORK PROCEDURES ARE REQUIRED FOR ENTRY IN TO THIS SPACE.

ASBESTOS APPLICATIONS NOT SHOWN ON DRAWING

ASBESTOS PIPE INSULATION LOCATED ABOVE FIXED CEILINGS THROUGHOUT THE BASEMENT AREA.

PEAK EARTH AND ENVIRONMENTAL CONSULTING INC.
951 Pinewood Place
Kelowna, BC V1Z 3G7
Ph 250-862-0971

Project No.: 1080

Drawing:
ASBESTOS CONTAINING BUILDING MATERIALS LOCATIONS

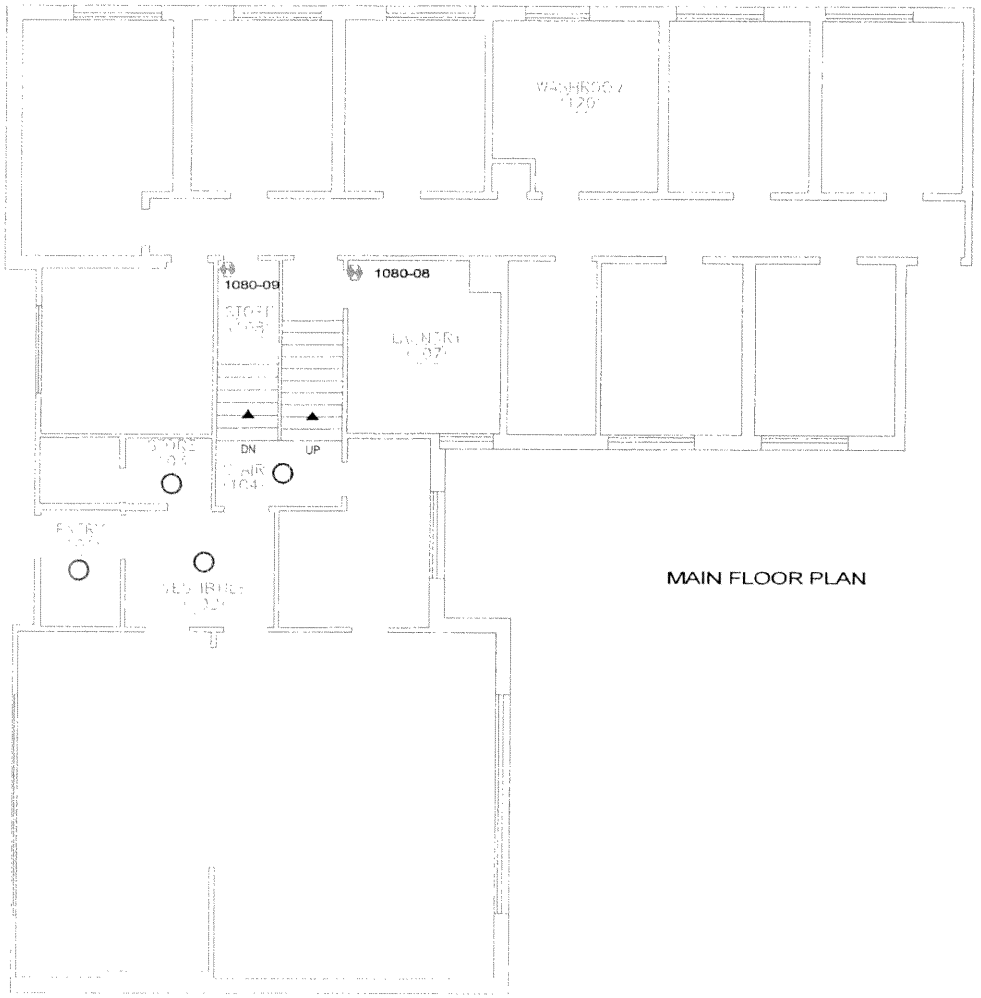
Title:
LAKE DISTRICT HOSPITAL NURSES RESIDENCE
741 Centre Street
Burns Lake, BC

Owner:
northern health

Legend:
- VINYL ASBESTOS FLOORING
- INCANDESCENT LIGHTING ASBESTOS INSULATING PAD
- BULK SAMPLE LOCATION AND SAMPLE NUMBER

Date: 12.28.2008
Revision:
Scale: 1 : 100
Drawn by: S.Ferguson

DRAWING NUMBER
1080 ASB 1.2



MAIN FLOOR PLAN

NOTE:
ASBESTOS PIPE INSULATION LOCATED IN THE CRAWLSPACE AREA IS IN POOR CONDITION. MODERATE RISK PERSONAL PROTECTIVE EQUIPMENT AND WORK PROCEDURES ARE REQUIRED FOR ENTRY IN TO THIS SPACE.

PEAK EARTH AND ENVIRONMENTAL CONSULTING INC.
951 Pinewood Place
Kelowna, BC V1Z 3G7
Ph 250-862-0971

Project No.: 1080

Drawing:
ASBESTOS CONTAINING BUILDING MATERIALS LOCATIONS

Title:
LAKE DISTRICT HOSPITAL NURSES RESIDENCE
741 Centre Street
Burns Lake, BC

Owner:
northern health

Legend:
- VINYL ASBESTOS FLOORING
- INCANDESCENT LIGHTING ASBESTOS INSULATING PAD
- BULK SAMPLE LOCATION AND SAMPLE NUMBER

Date: 12.28.2008
Revision:
Scale: 1 : 150
Drawn by: S.Ferguson

DRAWING NUMBER
1080 ASB 2.2

ASBESTOS CONTAINING MATERIAL LOCATIONS

12/27/2008

BUILDING & FUNCTIONAL AREA (room # and description)	ID CODE DESCRIPTION AND APPLICATION	VIS	CONDITION	ACCESSIBILITY	FRIABILITY	QUANTITY	UNIT	FOOT NOTES
LAKES DISTRICT HOSPITAL - NURSES RESIDENCE BUILDING								
BASEMENT FLOOR								
001 Boiler Rom	C1 - Insulating Cement	L	Good	High	High	50	FTG	
001 Boiler Rom	C1 - Insulating Cement	L	Poor	High	High	2	FTG	
002 Stairwell	I2 - Floor Sheeting		Good	Mod	High	90	SF	
003 Basement	C1 - Insulating Cement	AF	Good	High	High	100	FTG	
004 Crawlspace	C1 - Insulating Cement	L	Poor	High	High	150	FTG	/
010 Basement Washroom	I2 - Floor Sheeting		Good	Mod	High	130	SF	
UPPER FLOOR								
101 Entry	L1 - Insulating Pad		Fair	Mod	High	1	Unit	
102 Vestibule	L1 - Insulating Pad		Fair	Mod	High	1	Unit	
103 Store Room	L1 - Insulating Pad		Fair	Mod	High	1	Unit	
104 Stairwell	L1 - Insulating Pad		Fair	Mod	High	1	Unit	
107 Laundry Room	I2 - Floor Sheeting		Good	Mod	High	125	SF	
120 Washroom	I2 - Floor Sheeting		Good	Mod	High	130	SF	

FOOT NOTES:

/ Asbestos insulating cement in this location is in poor condition. Entry to this space must be performed utilizing appropriate personal protective equipment and moderate risk work procedures.

GENERAL NOTES:

1 Abatement and re-application costs are based on individual applications. Prices will vary dependent upon timing and scope of work. It is recommended that revised budget numbers be prepared once an abatement scope of work is ascertained.

2 Functional area numbers are representative of the survey drawings provided with this report and may not indicate actual room numbers.

3 Only known and visible asbestos materials are listed. There is a distinct possibility that asbestos materials may be present in wall, ceiling and floor void spaces not identified in this report. Any materials located in void spaces should be sampled for asbestos content prior to disturbance.

4 This is an occupied building assessment for asbestos containing materials. No sampling of building membrane materials was conduced there such sampling could breath the water tightness of the building. Additionally, applications routinely sampled prior to building demolition were not assessed through this inspection, concealed flooring applications beneath covering flooring and sub-flooring materials, where coring would be required to identified concealed materials, was not performed. A pre-demolition assessment should be performed prior to building demolition.

FRIABILITY
HIGH (easily crumbled by hand)
MED (not easily crumbled by hand)
LOW (tool or implement required to disturb)

CONDITION
GOOD (no visible signs of disturbance)
FAIR (visible signs of disturbance, no debris noted on ground)
POOR (delamination/deterioration evident/imminent, may have debris on ground)

ACCESSIBILITY
LOW (material concealed or enclosed)
MED (material exposed but out of hand reach)
HIGH (material exposed and within hand reach)

VIS (VISIBILITY)
Applications are exposed unless otherwise noted
AF - Application concealed above fixed ceilings
L - Low application height >8'

SURVEYED MATERIALS DESCRIPTIONS AND SAMPLE NUMBERS

ID CODE AND VISUAL DESCRIPTION		*SAMPLE No.*	*ASBESTOS CONTENT*
C1	Grey Fibrous Pipe Fitting Insulating Cement - Boiler Room 001	Not Sampled	Known Asbestos Application
G1	1x1' Donna Conna Compresses Cellulose Ceiling Tile - Dining Room 103	Not Sampled	Known Non-Asbestos Application
H1	9x9" Cream with Light Brown Splotched and Tar Paper Backed Vinyl Floor Tile - Store Room 108	1080-09	Non-Asbestos
I1	Oak Strip Pattern Vinyl Floor Sheeting - Dinning 103	Not Sampled	Known Non-Asbestos Application
I2	Beige, Brown and Cream Square Mosaic Pattern Paper Backed Corlon Vinyl Floor Sheeting - Laundry 107	1080-08	35% Chrysotile Asbestos
L1	Incandescent Lighting Gray Paper Insulating Pad - Entry 101	Not Sampled	Known Asbestos Application

PEAK EARTH AND ENVIRONMENTAL CONSULTING INC.
250-862-0971 / 1-877-518-PEAK (Toll Free)

THE PINES LONG TERM CARE FACILITY

ASBESTOS LOCATION DRAWINGS
AND
LOCATION SPREADSHEETS

ASBESTOS CONTAINING MATERIAL LOCATIONS

12/27/2008

BUILDING & FUNCTIONAL AREA (room # and description)	ID CODE DESCRIPTION AND APPLICATION	VIS	CONDITION	ACCESSIBILITY	FRIABILITY	QUANTITY	UNIT	FOOT NOTES

THE PINES LONG TERM CARE FACILITY

No asbestos containing applications were observed in this facility

GENERAL NOTES:

1. Abatement and re-application costs are based on individual applications. Prices will vary dependent upon timing and scope of work. It is recommended that revised budget numbers be prepared once an abatement scope of work is ascertained.
2. Functional area numbers are representative of the survey drawings provided with this report and may not indicate actual room numbers.
3. Only known and visible asbestos materials are listed. There is a distinct possibility that asbestos materials may be present in wall, ceiling and floor void spaces not identified in this report. Any materials located in void spaces should be sampled for asbestos content prior to disturbance.
4. This is an occupied building assessment for asbestos containing materials. No sampling of building membrane materials was conduced there such sampling could breath the water tightness of the building. Additionally, applications routinely sampled prior to building demolition were not assessed through this inspection, concealed flooring applications beneath covering flooring and sub-flooring materials, where coring would be required to identified concealed materials, was not performed. A pre-demolition assessment should be performed prior to building demolition.

FRIABILITY
HIGH (easily crumbled by hand)
MED (not easily crumbled by hand)
LOW (tool or implement required to disturb)

CONDITION
GOOD (no visible signs of disturbance)
FAIR (visible signs of disturbance, no debris noted on ground)
POOR (delamination/deterioration evident/imminent, may have debris on ground)

ACCESSIBILITY
LOW (material concealed or enclosed)
MED (material exposed but out of hand reach)
HIGH (material exposed and within hand reach)

VIS (VISIBILITY)
Applications are exposed unless otherwise noted

SURVEYED MATERIALS DESCRIPTIONS AND SAMPLE NUMBERS

ID CODE AND VISUAL DESCRIPTION		*SAMPLE No.*	*ASBESTOS CONTENT*
C1	Beige Non-Fibrous Pipe Fitting Insulating Cement - Basement Mechanical Room	1080-12	Non-Asbestos
G1	2x4' Cross-Directional Fissures with Large and Small Pinholed Ceiling Tile - North Wing Corridor	Not Sampled	Known Non-Asbestos Application
I1	Cream with Small Brown Splotched Tarkett Vinyl Floor Sheeting - Dinning Area	Not Sampled	Known Non-Asbestos Application
I2	Oak Strip Pattern Vinyl Floor Sheeting - Nurses Station	Not Sampled	Known Non-Asbestos Application
I3	Beige,. Brown and Cream Ransom Sized Stone Pattern Paper Backed New Corlon Vinyl Floor Sheeting - Washroom 25	Not Sampled	Known Non-Asbestos Application
I4	Beige Textured Rubber Non-Slip Floor Sheeting - North Bath Room	Not Sampled	Known Non-Asbestos Application
I5	Pink with Cream and Dark Pink Splotched Tarkett Vinyl Floor Sheeting - Washroom 20	Not Sampled	Known Non-Asbestos Application
M1	Brown Duct Mastic - Basement Mechanical Room	1080-10	Non-Asbestos
P1	Drywall Filler - Basement Store Room	1080-11	Non-Asbestos

PEAK EARTH AND ENVIRONMENTAL CONSULTING INC.
250-862-0971 / 1-877-518-PEAK (Toll Free)

ANALYTICAL BULK SAMPLE RESULTS

SURE Hazmat and Testing

9912 Lougheed Highway,
Burnaby, B.C.
Tel: 604 444.0204

Bulk Asbestos Results

Client: 1063 - Peak Earth and Environmental Consulting Inc.

Location: Northern Health - Lake District Hospital, Project 1080

Client Sample #	Date Analyzed	Analyst	Sample No.	Sample Location	Material Type	Other Materials	Asbestos Type & Amount
1063-143	14-Nov-08	DAC	1	Washroom 003	VAT - H1	Non-Fibrous 90% Other Fibres >5%	**Chrysotile 3%**
1063-144	14-Nov-08	DAC	2	Washroom 003	Drywall Filler - P1	Non-Fibrous 90% Other Fibres >5%	Not Detected
1063-145	14-Nov-08	DAC	3	Corridor 011	VAT - H2	Non-Fibrous 90% Other Fibres >5%	**Chrysotile 3%**
1063-146	14-Nov-08	DAC	4	Kitchen Stores 014	Finished Plaster - P2	Non-Fibrous 90% Other Fibres >5%	Not Detected
1063-147	14-Nov-08	DAC	5	Washroom 110A	Foam Core - I6	Non-Fibrous 30% Other Fibres >65%	Not Detected
1063-148	14-Nov-08	DAC	6	Washroom 111A	Corlon - I7	Non-Fibrous 50% Other Fibres >45%	Not Detected
1063-149	14-Nov-08	DAC	7	Laundry Room 107	Stipple Texture - A1	Non-Fibrous 90% Other Fibres >5%	Not Detected
1063-150	14-Nov-08	DAC	8	Nurses Residence Laundry Room 107	Corlon - I2	Non-Fibrous 40% Other Fibres >20%	**Chrysotile 35%**
1063-151	14-Nov-08	DAC	9	Nurses Residence Storage 108	VCT- H1	Non-Fibrous 90% Other Fibres >5%	Not Detected
1063-152	14-Nov-08	DAC	10	LDH The Pines Basement Mechanical	Duct Mastic - M1	Non-Fibrous 90% Other Fibres >5%	Not Detected
1063-153	14-Nov-08	DAC	11	LDH The Pines Basement Storage	Drywall Filler - P1	Non-Fibrous 90% Other Fibres >5%	Not Detected
1063-154	14-Nov-08	DAC	12	LDH The Pines Basement Mechanical	Insulating Cement - C1	Non-Fibrous 90% Other Fibres >5%	Not Detected

Note* Chrysotile is part of the Serpentine Asbestos Mineral Group

*Samples analyzed in accordance with NIOSH 9002 PLM Bulk Sampling Method

MAIN HOSPITAL BUILDING

PRIORITIZE ASBESTOS ABATEMENT SCHEDULE AND ABATEMENT BUDGET ESTIMATES (2008)

NORTHERN HEALTH
LAKE DISTRICT HOSPITAL

ASBESTOS CONTAINING MATERIAL LOCATIONS AND PRIORITIZED ABATEMENT COST ESTIMATES

12/27/2008

BUILDING & FUNCTIONAL AREA (room # and description)	ID CODE DESCRIPTION AND APPLICATION	VIS	CONDITION	ACCESSIBILITY	FRIABILITY	QUANTITY	UNIT	ABATEMENT RATE	ABATEMENT COST	REAPPLICATION RATE	REAPPLICATION COST	COST PER APPLICATION	REMOVAL PRIORITY	FOOT NOTES
LAKES DISTRICT HOSPITAL														
BASEMENT FLOOR														
000 Crawlspace	C1 - Insulating Cement	L	Fair	High	High	250	FTG	$ 95.00	$ 23,750.00	$ 45.00	$ 11,250.00	**$ 35,000.00**	1	/
001 Work Shop	C1 - Insulating Cement	L	Good	High	High	30	FTG	$ 95.00	$ 2,850.00	$ 45.00	$ 1,350.00	**$ 4,200.00**	2	
002 Fan Room	C1 - Insulating Cement	L	Good	High	High	50	FTG	$ 95.00	$ 4,750.00	$ 45.00	$ 2,250.00	**$ 7,000.00**	2	
003 Washroom	C1 - Insulating Cement	L	Good	High	High	8	FTG	$ 95.00	$ 760.00	$ 45.00	$ 360.00	**$ 1,120.00**	2	
003 Washroom	H1- Floor Tile		Good	High	Low	45	SF	$ 3.50	$ 157.50	$ 7.00	$ 315.00	**$ 472.50**	3	
004 Boiler Room	D1 - Tank Insulation	L	Good	High	High	2	Unit	$ 6,000.00	$ 12,000.00	$ 2,500.00	$ 5,000.00	**$ 17,000.00**	2	
004 Boiler Room	C1 - Insulating Cement	L	Good	High	High	165	FTG	$ 95.00	$ 15,675.00	$ 45.00	$ 7,425.00	**$ 23,100.00**	2	
004 Boiler Room	C1 - Insulating Cement	L	Poor	High	High	60	FTG	$ 95.00	$ 5,700.00	$ 45.00	$ 2,700.00	**$ 8,400.00**	*IMM*	
005 Fan Room	C1 - Insulating Cement	L	Good	High	High	125	FTG	$ 95.00	$ 11,875.00	$ 45.00	$ 5,625.00	**$ 17,500.00**	2	
005 Fan Room	C1 - Insulating Cement	L	Poor	High	High	25	FTG	$ 95.00	$ 2,375.00	$ 45.00	$ 1,125.00	**$ 3,500.00**	*IMM*	
005 Fan Room	D2 - Tank Insulation	L	Fair	High	High	2	Unit	$ 2,500.00	$ 5,000.00	$ 500.00	$ 1,000.00	**$ 6,000.00**	1	
006 Store Room	C1 - Insulating Cement	L	Good	High	High	40	FTG	$ 95.00	$ 3,800.00	$ 45.00	$ 1,800.00	**$ 5,600.00**	1	
008 Corridor	C1 - Insulating Cement		Good	High	High	6	FTG	$ 95.00	$ 570.00	$ 45.00	$ 270.00	**$ 840.00**	2	
009 Store Room	C1 - Insulating Cement		Good	High	High	13	FTG	$ 95.00	$ 1,235.00	$ 45.00	$ 585.00	**$ 1,820.00**	2	
010 Maintenance Office	C1 - Insulating Cement		Good	High	High	20	FTG	$ 95.00	$ 1,900.00	$ 45.00	$ 900.00	**$ 2,800.00**	2	
011 Corridor	C1 - Insulating Cement	AF	Good	High	Low	25	FTG	$ 95.00	$ 2,375.00	$ 45.00	$ 1,125.00	**$ 3,500.00**	3	
011 Corridor	H2- Floor Tile		Good	High	Low	240	SF	$ 3.50	$ 840.00	$ 7.00	$ 1,680.00	**$ 2,520.00**	3	
012 Store Room	C1 - Insulating Cement	L	Good	High	High	5	FTG	$ 95.00	$ 475.00	$ 45.00	$ 225.00	**$ 700.00**	1	
014 Custodial Room	C1 - Insulating Cement	L	Good	High	High	6	FTG	$ 95.00	$ 570.00	$ 45.00	$ 270.00	**$ 840.00**	1	
014 Custodial Room	C1 - Insulating Cement	L	Poor	High	High	2	FTG	$ 95.00	$ 190.00	$ 45.00	$ 90.00	**$ 280.00**	*IMM*	
014A Kitchen Store room	C1 - Insulating Cement	L	Good	High	High	24	FTG	$ 95.00	$ 2,280.00	$ 45.00	$ 1,080.00	**$ 3,360.00**	1	
015 Corridor	C1 - Insulating Cement	AF	Good	High	Low	40	FTG	$ 95.00	$ 3,800.00	$ 45.00	$ 1,800.00	**$ 5,600.00**	3	
015 Corridor	H2- Floor Tile		Good	High	Low	460	SF	$ 3.50	$ 1,610.00	$ 7.00	$ 3,220.00	**$ 4,830.00**	3	
015 Corridor	L1 - Insulating Pad		Poor	Mod	High	1	Unit	$ 50.00	$ 50.00	$ -	$ -	**$ 50.00**	*IMM*	
016 Corridor	C1 - Insulating Cement	AF	Good	High	Low	30	FTG	$ 95.00	$ 2,850.00	$ 45.00	$ 1,350.00	**$ 4,200.00**	3	
016 Corridor	H1- Floor Tile		Good	High	Low	510	SF	$ 3.50	$ 1,785.00	$ 7.00	$ 3,570.00	**$ 5,355.00**	3	
016 Corridor	H2- Floor Tile		Good	High	Low	560	SF	$ 3.50	$ 1,960.00	$ 7.00	$ 3,920.00	**$ 5,880.00**	3	
016 Corridor	C1 - Insulating Cement	AF	Good	High	Low	50	FTG	$ 95.00	$ 4,750.00	$ 45.00	$ 2,250.00	**$ 7,000.00**	3	
017 Washroom	H2- Floor Tile		Good	High	Low	40	SF	$ 3.50	$ 140.00	$ 7.00	$ 280.00	**$ 420.00**	3	
018 Morgue	H2- Floor Tile		Good	High	Low	145	SF	$ 3.50	$ 507.50	$ 7.00	$ 1,015.00	**$ 1,522.50**	3	
019 Custodial Room	H2- Floor Tile		Good	High	Low	20	SF	$ 3.50	$ 70.00	$ 7.00	$ 140.00	**$ 210.00**	3	
020 Physiotherapy	C1 - Insulating Cement	AF	Good	High	Low	25	FTG	$ 95.00	$ 2,375.00	$ 45.00	$ 1,125.00	**$ 3,500.00**	3	//
020 Physiotherapy	H2- Floor Tile		Good	High	Low	440	SF	$ 3.50	$ 1,540.00	$ 7.00	$ 3,080.00	**$ 4,620.00**	3	
023 Laundry Room	C1 - Insulating Cement	AF	Good	High	Low	20	FTG	$ 95.00	$ 1,900.00	$ 45.00	$ 900.00	**$ 2,800.00**	3	
023 Laundry Room	C1 - Insulating Cement	L	Good	High	High	12	FTG	$ 95.00	$ 1,140.00	$ 45.00	$ 540.00	**$ 1,680.00**	1	
023 Laundry	H1- Floor Tile		Good	High	Low	125	SF	$ 3.50	$ 437.50	$ 7.00	$ 875.00	**$ 1,312.50**	3	
023 Laundry	H2- Floor Tile		Good	High	Low	175	SF	$ 3.50	$ 612.50	$ 7.00	$ 1,225.00	**$ 1,837.50**	3	
023 Laundry	L1 - Insulating Pad		Poor	Mod	High	1	Unit	$ 50.00	$ 50.00	$ -	$ -	**$ 50.00**	*IMM*	
024 Stairwell Corridor	H2- Floor Tile		Good	High	Low	60	SF	$ 3.50	$ 210.00	$ 7.00	$ 420.00	**$ 630.00**	3	
025 Under Stair Storage	H2- Floor Tile		Good	High	Low	15	SF	$ 3.50	$ 52.50	$ 7.00	$ 105.00	**$ 157.50**	3	

PEAK EARTH AND ENVIRONMENTAL CONSULTING INC.
250-862-0971 / 1-877-518-PEAK (Toll Free)

ASBESTOS CONTAINING MATERIAL LOCATIONS AND PRIORITIZED ABATEMENT COST ESTIMATES

BUILDING & FUNCTIONAL AREA (room # and description)	ID CODE DESCRIPTION AND APPLICATION	VIS	CONDITION	ACCESSIBILITY	FRIABILITY	QUANTITY	UNIT	ABATEMENT RATE	ABATEMENT COST	REAPPLICATION RATE	REAPPLICATION COST	COST PER APPLICATION	REMOVAL PRIORITY	FOOT NOTES
LAKES DISTRICT HOSPITAL														
BASEMENT FLOOR Con't														
026 Kitchen	C1 - Insulating Cement	AF	Good	High	Low	20	FTG	$ 95.00	$ 1,900.00	$ 45.00	$ 900.00	**$ 2,800.00**	3	
027 Servery	C1 - Insulating Cement	AF	Good	High	Low	10	FTG	$ 95.00	$ 950.00	$ 45.00	$ 450.00	**$ 1,400.00**	3	
027 Servery	H1- Floor Tile		Good	High	Low	240	SF	$ 3.50	$ 840.00	$ 7.00	$ 1,680.00	**$ 2,520.00**	3	
028 Dinning Area	C1 - Insulating Cement	AF	Good	High	Low	15	FTG	$ 95.00	$ 1,425.00	$ 45.00	$ 675.00	**$ 2,100.00**	3	
028 Dinning Area	H1- Floor Tile		Good	High	Low	345	SF	$ 3.50	$ 1,207.50	$ 7.00	$ 2,415.00	**$ 3,622.50**	3	
029 Store Room	H1- Floor Tile		Good	High	Low	30	SF	$ 3.50	$ 105.00	$ 7.00	$ 210.00	**$ 315.00**	3	
030 Conference Room	H1- Floor Tile		Good	High	Low	300	SF	$ 3.50	$ 1,050.00	$ 7.00	$ 2,100.00	**$ 3,150.00**	3	
030 Conference Room	C1 - Insulating Cement	AF	Good	High	Low	5	FTG	$ 95.00	$ 475.00	$ 45.00	$ 225.00	**$ 700.00**	3	
031 Store Room	H1- Floor Tile		Good	High	Low	75	SF	$ 3.50	$ 262.50	$ 7.00	$ 525.00	**$ 787.50**	3	
032 Store Room	H1- Floor Tile		Good	High	Low	55	SF	$ 3.50	$ 192.50	$ 7.00	$ 385.00	**$ 577.50**	3	
032 Store Room	C1 - Insulating Cement	AF	Good	High	Low	1	FTG	$ 95.00	$ 95.00	$ 45.00	$ 45.00	**$ 140.00**	3	
033 Meeting Room	C1 - Insulating Cement	AF	Good	High	Low	8	FTG	$ 95.00	$ 760.00	$ 45.00	$ 360.00	**$ 1,120.00**	3	
034 Vestibule	H1- Floor Tile		Good	High	Low	60	SF	$ 3.50	$ 210.00	$ 7.00	$ 420.00	**$ 630.00**	3	
034 Vestibule	C1 - Insulating Cement	AF	Good	High	Low	6	FTG	$ 95.00	$ 570.00	$ 45.00	$ 270.00	**$ 840.00**	3	
036 Meeting Room	C1 - Insulating Cement	AF	Good	High	Low	6	FTG	$ 95.00	$ 570.00	$ 45.00	$ 270.00	**$ 840.00**	3	
037 Housekeeping Office	H1 / H2 - Floor Tile		Good	High	Low	280	SF	$ 3.50	$ 980.00	$ 7.00	$ 1,960.00	**$ 2,940.00**	3	
037 Housekeeping Office	C1 - Insulating Cement	AF	Good	High	Low	12	FTG	$ 95.00	$ 1,140.00	$ 45.00	$ 540.00	**$ 1,680.00**	3	
UPPER FLOOR														
100A Store Room	H1- Floor Tile		Good	High	Low	35	SF	$ 3.50	$ 122.50	$ 7.00	$ 245.00	**$ 367.50**	3	
103 Washroom	L1 - Insulating Pad		Fair	Mod	High	1	Unit	$ 50.00	$ 50.00	$ -	$ -	**$ 50.00**	1	
106 Store Room	L1 - Insulating Pad		Fair	Mod	High	1	Unit	$ 50.00	$ 50.00	$ -	$ -	**$ 50.00**	1	
113 Pantry	J1 - Cement Board		Good	High	Low	50	SF	$ 10.00	$ 500.00	$ -	$ -	**$ 500.00**	3	
116 Store Room	L1 - Insulating Pad		Poor	Mod	High	1	Unit	$ 50.00	$ 50.00	$ -	$ -	**$ 50.00**	*IMM*	
136 Custodial Room	L1 - Insulating Pad		Poor	Mod	High	1	Unit	$ 50.00	$ 50.00	$ -	$ -	**$ 50.00**	*IMM*	
158 Custodial Room	L1 - Insulating Pad		Poor	Mod	High	1	Unit	$ 50.00	$ 50.00	$ -	$ -	**$ 50.00**	*IMM*	
161 Maternity Store Room	L1 - Insulating Pad		Poor	Mod	High	1	Unit	$ 50.00	$ 50.00	$ -	$ -	**$ 50.00**	*IMM*	
173 Custodial Room	L1 - Insulating Pad		Poor	Mod	High	1	Unit	$ 50.00	$ 50.00	$ -	$ -	**$ 50.00**	*IMM*	
PENTHOUSE														
200 Penthouse Fan Room	C1 - Insulating Cement		Good	High	High	75	FTG	$ 110.00	$ 8,250.00	$ 45.00	$ 3,375.00	**$ 11,625.00**	2	

IMMEDIATE ABATEMENT AND RE-APPLICATION COSTS $	**12,530.00**
PRIORITY 1 RECOMMENDED ABATEMENT AND RE-APPLICATION COSTS $	53,280.00
PRIORITY 2 RECOMMENDED ABATEMENT AND RE-APPLICATION COSTS $	87,005.00
[illegible]	[illegible]
TOTAL ABATEMENT AND RE-APPLICATION COSTS FOR THIS FACILITY $	**236,212.50**

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ASBESTOS CONTAINING MATERIAL LOCATIONS AND PRIORITIZED ABATEMENT COST ESTIMATES

BUILDING & FUNCTIONAL AREA (room # and description)	ID CODE DESCRIPTION AND APPLICATION	VIS	CONDITION	ACCESSIBILITY	FRIABILITY	QUANTITY	UNIT	ABATEMENT RATE	ABATEMENT COST	REAPPLICATION RATE	REAPPLICATION COST	COST PER APPLICATION	REMOVAL PRIORITY	FOOT NOTES
LAKES DISTRICT HOSPITAL														

FOOT NOTES:

/ Asbestos insulating cement in this location is in poor condition. Entry to this space must be performed utilizing appropriate personal protective equipment and moderate risk work procedures.

// Assumed asbestos application, no access to this room was possible during our assessment of the facility.

GENERAL NOTES:

1 Abatement and re-application costs are based on individual applications. Prices will vary dependent upon timing and scope of work. It is recommended that revised budget numbers be prepared once an abatement scope of work is ascertained.

2 Functional area numbers are representative of the survey drawings provided with this report and may not indicate actual room numbers.

3 Only known and visible asbestos materials are listed. There is a distinct possibility that asbestos materials may be present in wall, ceiling and floor void spaces not identified in this report. Any materials located in void spaces should be sampled for asbestos content prior to disturbance.

4 This is an occupied building assessment for asbestos containing materials. No sampling of building membrane materials was conduced there such sampling could breach the water tightness of the building. Additionally, applications routinely sampled prior to building demolition were not assessed through this inspection, concealed flooring applications beneath covering flooring and sub-flooring materials, where coring would be required to identified concealed materials, was not performed. A pre-demolition assessment should be performed prior to building demolition.

FRIABILITY
HIGH (easily crumbled by hand)
MED (not easily crumbled by hand)
LOW (tool or implement required to disturb)

CONDITION
GOOD (no visible signs of disturbance)
FAIR (visible signs of disturbance, no debris noted on ground)
POOR (delamination/deterioration evident/imminent, may have debris on ground)

VIS (VISIBILITY)
Applications are exposed unless otherwise noted
AF - Application concealed above fixed ceiling
L - Low application height <8'

ACCESSIBILITY
LOW (material concealed or enclosed)
MED (material exposed but out of hand reach)
HIGH (material exposed and within hand reach)

REMOVAL PRIORITY
IMMEDIATE Immediate removal recommended. There is a distinct possibility of asbestos fibre release
1 Remove within one year due to this applications location and the surrounding areas use, damage is probable.
2 Removal, in conjunction with proposed building renovations or maintenance, is recommended
3 Removal, prior to renovation or demolition activities, is recommended

PEAK EARTH AND ENVIRONMENTAL CONSULTING INC.
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BUILDING & FUNCTIONAL AREA (room # and description)	ID CODE DESCRIPTION AND APPLICATION	VIS	CONDITION	ACCESSIBILITY	FRIABILITY	QUANTITY	UNIT	ABATEMENT RATE	ABATEMENT COST	REAPPLICATION RATE	REAPPLICATION COST	COST PER APPLICATION	REMOVAL PRIORITY	FOOT NOTES

LAKES DISTRICT HOSPITAL

SURVEYED MATERIALS DESCRIPTIONS AND SAMPLE NUMBERS

ID CODE AND VISUAL DESCRIPTION	*SAMPLE No.*	*ASBESTOS CONTENT*
A1 Soft Stipple Ceiling Texture - Nurses Office 111	1080-07	Non-Asbestos
C1 Grey Fibrous Pipe Fitting Insulating Cement - Penthouse Fan Room 300	Not Sampled	Known Asbestos Application
D1 Domestic Hot Water Tank Insulating Cement - Basement Boiler Room 003	Not Sampled	Known Asbestos Application
D2 Heat Exchanger Tank - Basement Fan Room 005	Not Sampled	Known Asbestos Application
G1 1x1' Donna Conna Compresses Cellulose Ceiling Tile - Basement Corridor 011	Not Sampled	Known Non-Asbestos Application
G2 1x1' Large and Small Holed Donna Conna Compresses Cellulose Ceiling Tile - Basement Laundry Room 023	Not Sampled	Known Non-Asbestos Application
G3 2x4' Textured Finish Compresses Cellulose Ceiling Tile - Basement Dinning Room 028	Not Sampled	Known Non-Asbestos Application
G4 1x1' Holed and Textured Finish Donna Conna Compresses Cellulose Ceiling Tile - Nurses Station 117	Not Sampled	Known Non-Asbestos Application
G5 2x4' Short Omni-Directional Fissures with Large and Small Pinhole Ceiling Tile - Lab 133	Not Sampled	Known Non-Asbestos Application
H1 12x12" Beige with Minimal Thin Brown Streaked Vinyl Floor Tile - Basement Washroom 003	1080-01	3% Chrysotile Asbestos
H2 9x9" Brown with Brown and White Streaked Vinyl Floor Tile - Basement Corridor 011	1080-03	3% Chrysotile Asbestos
H3 12x12" Marble Pattern New Vinyl Floor Tile - Quite Room 120	Not Sampled	Known Non-Asbestos Application
H4 12x12" White with Large and Small Grey and Brown Splotched Composite Floor Tile - Operating Room 150	Not Sampled	Known Non-Asbestos Application
H5 12x12" Dark Brown with Small Black Splotched Composite Floor Tile - Operating Room 151	Not Sampled	Known Non-Asbestos Application
I1 Beige with Small Cream and Brown Splotched Pattern Tarkett Vinyl Floor Sheeting - Basement Office 022	Not Sampled	Known Non-Asbestos Application
I10 White 10" Square Pattern Paper Backed New Corlon Vinyl Floor Sheeting - Dr. Lounge 131	Not Sampled	Known Non-Asbestos Application
I11 Beige, Brown and Dark Brown Swirl Pattern Jute Backed Marmoleum Floor Sheeting - Maternity 160	Not Sampled	Known Non-Asbestos Application
I2 Brown with Brown and Cream Splotched Pattern Jute Backed Marmoleum Floor Sheeting - Reception 100	Not Sampled	Known Non-Asbestos Application
I3 Beige with Brown and Cream Swirl Pattern Jute Backed Marmoleum Floor Sheeting - Corridor 101	Not Sampled	Known Non-Asbestos Application
I4 Beige with Short Brown Streaked New Foam Core Vinyl Floor Sheeting - Washroom 103	Not Sampled	Known Non-Asbestos Application
I5 Grey with Dark Grey and Cream Splotched Pattern Jute Backed Marmoleum Floor Sheeting - Public Health Nurse Office 104	Not Sampled	Known Non-Asbestos Application
I6 Beige with Long Brown Streaked Foam Core Vinyl Floor Sheeting - Washroom 110A	1080-05	Non-Asbestos
I7 Beige, Brown and Cream Random Size Stone Pattern Paper Backed Corlon Vinyl Floor Sheeting - Public Health Nurse Washroom 111A	1080-06	Non-Asbestos
I8 White with Random Sized Blue and Cream Splotched Paper Backed New Corlon Vinyl Floor Sheeting - Washroom 115A	Not Sampled	Known Non-Asbestos Application
I9 Blue with Blue and Cream Streaked New Foam Core Vinyl Floor Sheeting - X-Ray 125	Not Sampled	Known Non-Asbestos Application
J1 Terrazzo Pattern Cement Asbestos Board - Pantry 113	Not Sampled	Known Asbestos Application
L1 Incandescent Lighting Gray Paper Insulating Pad - Basement Corridor 015	Not Sampled	Known Asbestos Application
P1 Drywall Filler - Basement Washroom 003	1080-02	Non-Asbestos
P2 Finished Plaster - Basement Kitchen Stores 014A	1080-04	Non-Asbestos
S1 Exterior Acrylic Stucco - Exterior	Not Sampled	Known Non-Asbestos Application

NURSES RESIDENCE BUILDING

PRIORITIZE ASBESTOS ABATEMENT SCHEDULE AND ABATEMENT BUDGET ESTIMATES (2008)

NORTHERN HEALTH
LAKE DISTRICT HOSPITAL

ASBESTOS CONTAINING MATERIAL LOCATIONS AND PRIORITIZED ABATEMENT COST ESTIMATES

12/27/2008

BUILDING & FUNCTIONAL AREA (room # and description)	ID CODE DESCRIPTION AND APPLICATION	VIS	CONDITION	ACCESSIBILITY	FRIABILITY	QUANTITY	UNIT	ABATEMENT RATE	ABATEMENT COST	REAPPLICATION RATE	REAPPLICATION COST	COST PER APPLICATION	REMOVAL PRIORITY	FOOT NOTES
LAKES DISTRICT HOSPITAL - NURSES RESIDENCE BUILDING														
BASEMENT FLOOR														
001 Boiler Rom	C1 - Insulating Cement	L	Good	High	High	50	FTG	$ 95.00	$ 4,750.00	$ 45.00	$ 2,250.00	**$ 7,000.00**	1	
001 Boiler Rom	C1 - Insulating Cement	L	Poor	High	High	2	FTG	$ 95.00	$ 190.00	$ 45.00	$ 90.00	**$ 280.00**	*IMM*	
002 Stairwell	I2 - Floor Sheeting		Good	Mod	High	90	SF	$ 10.00	$ 900.00	$ 8.00	$ 720.00	**$ 1,620.00**	3	
003 Basement	C1 - Insulating Cement	AF	Good	High	High	100	FTG	$ 110.00	$ 11,000.00	$ 45.00	$ 4,500.00	**$ 15,500.00**	3	
004 Crawlspace	C1 - Insulating Cement	L	Poor	High	High	150	FTG	$ 95.00	$ 14,250.00	$ 45.00	$ 6,750.00	**$ 21,000.00**	1	/
010 Basement Washroom	I2 - Floor Sheeting		Good	Mod	High	130	SF	$ 10.00	$ 1,300.00	$ 8.00	$ 1,040.00	**$ 2,340.00**	3	
UPPER FLOOR														
101 Entry	L1 - Insulating Pad		Fair	Mod	High	1	Unit	$ 50.00	$ 50.00	$ -	$ -	**$ 50.00**	1	
102 Vestibule	L1 - Insulating Pad		Fair	Mod	High	1	Unit	$ 50.00	$ 50.00	$ -	$ -	**$ 50.00**	1	
103 Store Room	L1 - Insulating Pad		Fair	Mod	High	1	Unit	$ 50.00	$ 50.00	$ -	$ -	**$ 50.00**	1	
104 Stairwell	L1 - Insulating Pad		Fair	Mod	High	1	Unit	$ 50.00	$ 50.00	$ -	$ -	**$ 50.00**	1	
107 Laundry Room	I2 - Floor Sheeting		Good	Mod	High	125	SF	$ 10.00	$ 1,250.00	$ 8.00	$ 1,000.00	**$ 2,250.00**	3	
120 Washroom	I2 - Floor Sheeting		Good	Mod	High	130	SF	$ 10.00	$ 1,300.00	$ 8.00	$ 1,040.00	**$ 2,340.00**	3	

IMMEDIATE ABATEMENT AND RE-APPLICATION COSTS $	**280.00**
PRIORITY 1 RECOMMENDED ABATEMENT AND RE-APPLICATION COSTS $	28,200.00
PRIORITY 2 RECOMMENDED ABATEMENT AND RE-APPLICATION COSTS $	-
[illegible]	[illegible]
TOTAL ABATEMENT AND RE-APPLICATION COSTS FOR THIS FACILITY $	**52,530.00**

FOOT NOTES:

/ Asbestos insulating cement in this location is in poor condition. Entry to this space must be performed utilizing appropriate personal protective equipment and moderate risk work procedures.

GENERAL NOTES:

1 Abatement and re-application costs are based on individual applications. Prices will vary dependent upon timing and scope of work. It is recommended that revised budget numbers be prepared once an abatement scope of work is ascertained.

2 Functional area numbers are representative of the survey drawings provided with this report and may not indicate actual room numbers.

3 Only known and visible asbestos materials are listed. There is a distinct possibility that asbestos materials may be present in wall, ceiling and floor void spaces not identified in this report. Any materials located in void spaces should be sampled for asbestos content prior to disturbance.

4 This is an occupied building assessment for asbestos containing materials. No sampling of building membrane materials was conduced there such sampling could breach the water tightness of the building. Additionally, applications routinely sampled prior to building demolition were not assessed through this inspection, concealed flooring applications beneath covering flooring and sub-flooring materials, where coring would be required to identified concealed materials, was not performed. A pre-demolition assessment should be performed prior to building demolition.

PEAK EARTH AND ENVIRONMENTAL CONSULTING INC.
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ASBESTOS CONTAINING MATERIAL LOCATIONS AND PRIORITIZED ABATEMENT COST ESTIMATES

BUILDING & FUNCTIONAL AREA (room # and description)	ID CODE DESCRIPTION AND APPLICATION	VIS	CONDITION	ACCESSIBILITY	FRIABILITY	QUANTITY	UNIT	ABATEMENT RATE	ABATEMENT COST	REAPPLICATION RATE	REAPPLICATION COST	COST PER APPLICATION	REMOVAL PRIORITY	FOOT NOTES
LAKES DISTRICT HOSPITAL - NURSES RESIDENCE BUILDING														

FRIABILITY
HIGH (easily crumbled by hand)
MED (not easily crumbled by hand)
LOW (tool or implement required to disturb)

CONDITION
GOOD (no visible signs of disturbance)
FAIR (visible signs of disturbance, no debris noted on ground)
POOR (delamination/deterioration evident/imminent, may have debris on ground)

VIS (VISIBILITY)
Applications are exposed unless otherwise noted
AF - Application concealed above fixed ceilings
L - Low application height >8'

ACCESSIBILITY
LOW (material concealed or enclosed)
MED (material exposed but out of hand reach)
HIGH (material exposed and within hand reach)

REMOVAL PRIORITY
IMMEDIATE Immediate removal recommended. There is a distinct possibility of asbestos fibre release
1 Remove within one year due to this applications location and the surrounding areas use, damage is probable.
2 Removal, in conjunction with proposed building renovations or maintenance, is recommended
3 Removal, prior to renovation or demolition activities, is recommended

SURVEYED MATERIALS DESCRIPTIONS AND SAMPLE NUMBERS

ID CODE AND VISUAL DESCRIPTION	*SAMPLE No.*	*ASBESTOS CONTENT*
C1 Grey Fibrous Pipe Fitting Insulating Cement - Boiler Room 001	Not Sampled	Known Asbestos Application
G1 1x1' Donna Conna Compresses Cellulose Ceiling Tile - Dining Room 103	Not Sampled	Known Non-Asbestos Application
H1 9x9" Cream with Light Brown Splotched and Tar Paper Backed Vinyl Floor Tile - Store Room 108	1080-09	Non-Asbestos
I1 Oak Strip Pattern Vinyl Floor Sheeting - Dinning 103	Not Sampled	Known Non-Asbestos Application
I2 Beige, Brown and Cream Square Mosaic Pattern Paper Backed Corlon Vinyl Floor Sheeting - Laundry 107	1080-08	35% Chrysotile Asbestos
L1 Incandescent Lighting Gray Paper Insulating Pad - Entry 101	Not Sampled	Known Asbestos Application

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THE PINES LONG TERM CARE FACILITY

PRIORITIZE ASBESTOS ABATEMENT SCHEDULE AND ABATEMENT BUDGET ESTIMATES (2008)

NORTHERN HEALTH

ASBESTOS CONTAINING MATERIAL LOCATIONS AND PRIORITIZED ABATEMENT COST ESTIMATES

12/27/2008

BUILDING & FUNCTIONAL AREA (room # and description)	ID CODE DESCRIPTION AND APPLICATION	VIS	CONDITION	ACCESSIBILITY	FRIABILITY	QUANTITY	UNIT	ABATEMENT RATE	ABATEMENT COST	REAPPLICATION RATE	REAPPLICATION COST	COST PER APPLICATION	REMOVAL PRIORITY	FOOT NOTES

THE PINES LONG TERM CARE FACILITY

No asbestos containing applications were observed in this facility

IMMEDIATE ABATEMENT AND RE-APPLICATION COSTS	$ -
PRIORITY 1 RECOMMENDED ABATEMENT AND RE-APPLICATION COSTS	$ -
PRIORITY 2 RECOMMENDED ABATEMENT AND RE-APPLICATION COSTS	$ -
PRIORITY 3 RECOMMENDED ABATEMENT AND RE-APPLICATION COSTS	$
TOTAL ABATEMENT AND RE-APPLICATION COSTS FOR THIS FACILITY	$ -

GENERAL NOTES:

1. Abatement and re-application costs are based on individual applications. Prices will vary dependent upon timing and scope of work. It is recommended that revised budget numbers be prepared once an abatement scope of work is ascertained.
2. Functional area numbers are representative of the survey drawings provided with this report and may not indicate actual room numbers.
3. Only known and visible asbestos materials are listed. There is a distinct possibility that asbestos materials may be present in wall, ceiling and floor void spaces not identified in this report. Any materials located in void spaces should be sampled for asbestos content prior to disturbance.
4. This is an occupied building assessment for asbestos containing materials. No sampling of building membrane materials was conduced there such sampling could breach the water tightness of the building. Additionally, applications routinely sampled prior to building demolition were not assessed through this inspection, concealed flooring applications beneath covering flooring and sub-flooring materials, where coring would be required to identified concealed materials, was not performed. A pre-demolition assessment should be performed prior to building demolition.

FRIABILITY
HIGH (easily crumbled by hand)
MED (not easily crumbled by hand)
LOW (tool or implement required to disturb)

CONDITION
GOOD (no visible signs of disturbance)
FAIR (visible signs of disturbance, no debris noted on ground)
POOR (delamination/deterioration evident/imminent, may have debris on ground)

VIS (VISIBILITY)
Applications are exposed unless otherwise noted

ACCESSIBILITY
LOW (material concealed or enclosed)
MED (material exposed but out of hand reach)
HIGH (material exposed and within hand reach)

REMOVAL PRIORITY
IMMEDIATE Immediate removal recommended. There is a distinct possibility of asbestos fibre release
1 Remove within one year due to this applications location and the surrounding areas use, damage is probable.
2 Removal, in conjunction with proposed building renovations or maintenance, is recommended
3 Removal, prior to renovation or demolition activities, is recommended

SURVEYED MATERIALS DESCRIPTIONS AND SAMPLE NUMBERS

ID CODE AND VISUAL DESCRIPTION	*SAMPLE No.*	*ASBESTOS CONTENT*
C1 Beige Non-Fibrous Pipe Fitting Insulating Cement - Basement Mechanical Room	1080-12	Non-Asbestos
G1 2x4' Cross-Directional Fissures with Large and Small Pinholed Ceiling Tile - North Wing Corridor	Not Sampled	Known Non-Asbestos Application
I1 Cream with Small Brown Splotched Tarkett Vinyl Floor Sheeting - Dinning Area	Not Sampled	Known Non-Asbestos Application
I2 Oak Strip Pattern Vinyl Floor Sheeting - Nurses Station	Not Sampled	Known Non-Asbestos Application
I3 Beige,. Brown and Cream Ransom Sized Stone Pattern Paper Backed New Corlon Vinyl Floor Sheeting - Washroom 25	Not Sampled	Known Non-Asbestos Application
I4 Beige Textured Rubber Non-Slip Floor Sheeting - North Bath Room	Not Sampled	Known Non-Asbestos Application
I5 Pink with Cream and Dark Pink Splotched Tarkett Vinyl Floor Sheeting - Washroom 20	Not Sampled	Known Non-Asbestos Application
M1 Brown Duct Mastic - Basement Mechanical Room	1080-10	Non-Asbestos
P1 Drywall Filler - Basement Store Room	1080-11	Non-Asbestos

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