

LEGAL DESCRIPTION

The Quantum Matter Institute (QMI) is an addition to the AMPEL (Advanced Materials and Process Engineering Laboratory) building located in the Campus Core District and is bounded by the Engineering Lane to the north, East Mall to the east, the Pulp and Paper Centre to the south and the AMPEL Building to the west.

The addition will be considered an expansion of the existing Brimacombe (AMPEL) building constructed in 1990. The QMI addition will be a horizontal expansion to the east. Approximately 1000m² of floor area will be added to the 1st, 2nd, 3rd and 4th storeys, as well as the basement. Accordingly, the building will be increased by approximately 1000m².

BUILDING DATA

Total Site Area:
% coverage:
Building Height: 4 storey plus basement
Existing AMPEL Floor Area:
New QMI Floor Area:
TOTAL Gross Building Area:
SETBACKS:
Front setback permitted -
Rear Setback permitted -
Side Setback permitted -
PARKING:
Vehicle stalls permitted -
Bicycle stalls permitted -
Loading permitted -
FSR permitted -

PROJECT TEAM

PROJECT MANAGER
Nick Male
UBC Properties Trust
101 - 555 Great Northern Way
Vancouver BC V5T 1E2
T: 1(604) 742-3231
E: nmale@ubcproperties.com

ARCHITECT
Brian Wakelin, Architect, AIBC, MRAC, LEEB/AP
Public Architecture & Communication
215 - 309 W Cordova St
Vancouver BC V6B 1E5
T: 1(604) 739-4323
E: brian@publicdesign.ca

LABORATORY CONSULTANT
Alan Magles, Architect, AIBC
Magles Argo Architects Inc.
101 - 814 West 15th Street
North Vancouver, BC V7P1M6
T: 1(604) 986-4240
E: amagles@telus.net

STRUCTURAL ENGINEER Mark van Bockhoven
Jones Kwong Kishi - Dialog
#406 - 611 Alexander Street
Vancouver BC V6A 1B1
T: 1(604) 988-1728
E: mvanbockhoven@dialogdesign.ca

MECHANICAL ENGINEER
Stuart Hood P.Eng
I N T E G R A L group
180 - 200 Granville Street
Vancouver BC V5C 1S4
T: 604 687 1800
E: shood@integral-group.ca

ELECTRICAL ENGINEER
Andrew Tashiro, P.Eng. LEED AP
MMM Group Limited
1045 Howe Street, Suite 700
Vancouver, BC Canada V6Z 2A7
T: 604 676 1540
E: Tashiro@mmm.ca

GEOTECHNICAL ENGINEER
Steven Fofonoff, P.Eng.
GeoPacific Consultants Ltd.
215 - 1200 West 73rd Avenue
Vancouver, BC V6P 6G5
T: 604.439.0722
E: fofonoff@geopacific.ca

CIVIL ENGINEER
Cormac Nolan
Core Group Consulting
T: 604 299 0605
E: CNolan@coregroupconsultants.com

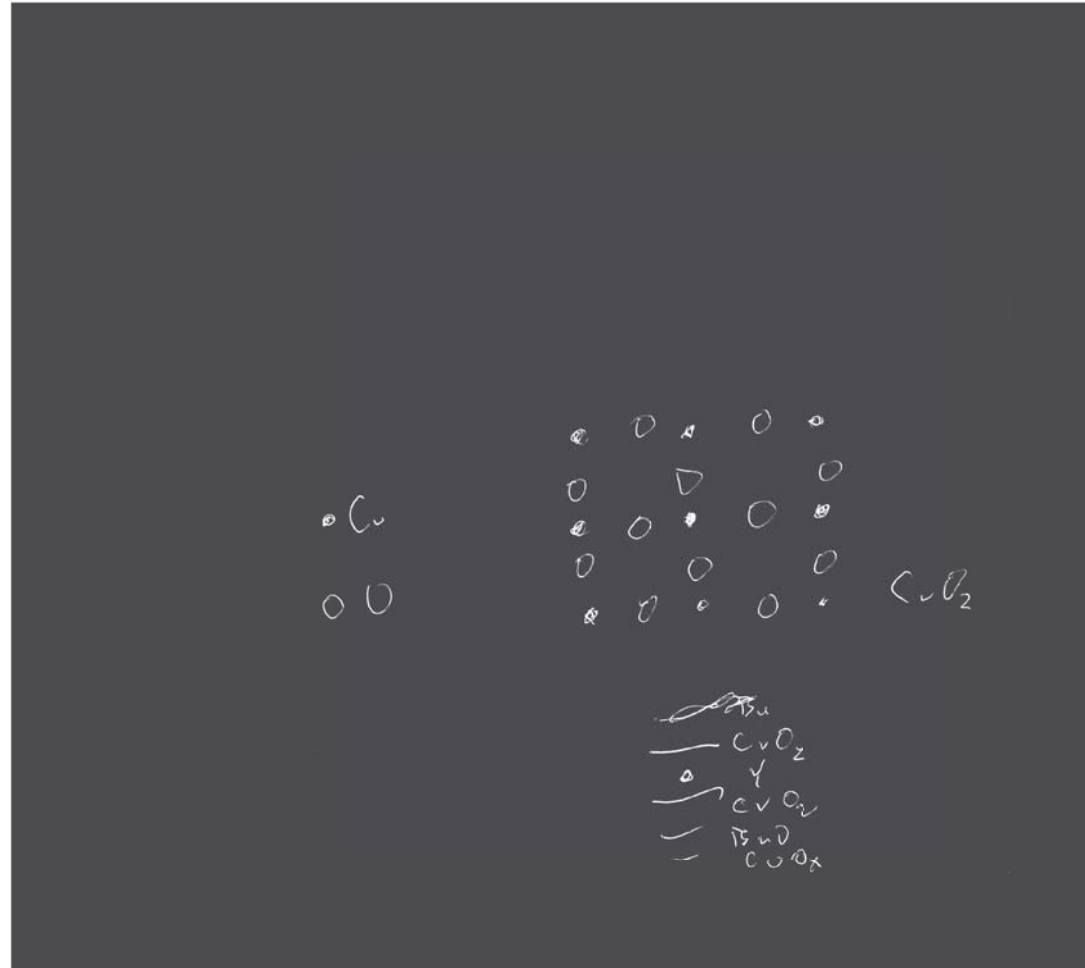
LANDSCAPE ARCHITECT
Andrew Robertson
ISL Engineering
503 - 4190 Lougheed Hwy.
Burnaby, BC V5C 6A8
T: 604 427 2616
E: ARobertson@islengineering.com

DRAWING LIST

A0 GENERAL	
A0.00	COVER SHEET
A0.01	ASSEMBLIES
A0.02	SCHEDULES + LEGENDS
A0.05	SITE PLAN
A1 PLANS	
A1.00	LEVEL -1 PLAN
A1.01	MAIN LEVEL PLAN
A1.02	LEVEL 2 PLAN
A1.03	LEVEL 3 PLAN
A1.04	LEVEL 4 PLAN
A1.05	PENTHOUSE PLAN
A1.06	ROOF PLAN
A1.07	LEVEL -1 AND LEVEL 1 AMPEL
A1.08	LEVEL 2 AND LEVEL 3 AMPEL
A1.09	LEVEL 4 AMPEL
A2 CEILINGS	
A2.02	LEVEL 1 RCP
A2.03	LEVEL 2 RCP
A3 SECTIONS	
A3.01	SECTIONS
A3.02	SECTIONS
A4 ELEVATIONS	
A4.01	NORTH ELEVATION
A4.02	EAST ELEVATIONS
A4.03	SOUTH ELEVATIONS
A4.05	WEST ELEVATIONS

Copyright reserved. This design and drawing is the exclusive property of Public Architecture and Communication Inc. and cannot be used for any purpose without the written consent of the Architect. This drawing is not to be used for construction until issued for that purpose by the Architect. Prior to commencement of the Work the Contractor shall verify all dimensions, details and levels to identify any errors and omissions, and any discrepancies between this drawing and the full Contract Documents, and bring these items to the attention of the Architect for clarification.

ISSUES + REVISIONS		
NO	DATE	DESCRIPTION
A	2013-11-08	ISSUED FOR SCHEMATIC DESIGN
B	2014-01-20	ISSUED FOR DP



not for construction

public

215 - 309 W CORDOVA ST
VANCOUVER BC V6B 1E5
TEL 604 739 4323
FAX 604 673 4323
WWW.PUBLICDESIGN.CA

UBC QMI & AMPEL

2355 EAST MALL, VANCOUVER, BC	
PROJECT CODE	STATUS
1335	DP
SCALE	DATE
	JANUARY 20, 2014

COVER SHEET
SHEET
A0.00

ISSUES + REVISIONS		
NO.	DATE	DESCRIPTION
A	2013-11-08	ISSUED FOR SCHEMATIC DESIGN
B	2014-01-20	ISSUED FOR DP

SYMBOL	FIRE RATING	SOUND RATING	CONSTRUCTION DETAIL	DESCRIPTION
W1				RETAINING WALL 10 DRAINAGE BOARD CONCRETE WALL - SEE STRUCTURAL
W2				FOUNDATION WALL 10 DRAINAGE BOARD 100 RIGID INSULATION AIR VAPOUR BARRIER CONCRETE WALL C/W WATERPROOFING ADMIXTURE AND WATERSTOPS - SEE STRUCTURAL
W3				EXTERIOR CONCRETE WALL - BRICK VENEER 90 CLAY MASONRY UNITS 25 AIR SPACE 100 RIGID INSULATION AIR VAPOUR BARRIER CONCRETE WALL - SEE STRUCTURAL 22 METAL FURRING 16 GYPSUM WALLBOARD
W4				EXTERIOR STEEL STUD WALL - BRICK VENEER 90 CLAY MASONRY UNITS 25 AIR SPACE 100 RIGID INSULATION AIR VAPOUR BARRIER 16 EXTERIOR GYPSUM WALLBOARD 152 STEEL STUD 16 GYPSUM WALLBOARD

SYMBOL	FIRE RATING	SOUND RATING	CONSTRUCTION DETAIL	DESCRIPTION
WS				CONCRETE SHEAR WALL 16 GYPSUM WALLBOARD 22 METAL FURRING CONCRETE WALL - SEE STRUCTURAL 22 METAL FURRING 16 GYPSUM WALLBOARD
WS				125 WALL 16 GYPSUM WALLBOARD 92 STEEL STUD 16 GYPSUM WALLBOARD
WS	3/4 HR			125 WALL - RATED 16 GYPSUM WALLBOARD 92 STEEL STUD 16 GYPSUM WALLBOARD
WS				185 WALL 16 GYPSUM WALLBOARD 152 STEEL STUD 16 GYPSUM WALLBOARD
WS	1 HR			185 WALL - RATED 16 GYPSUM WALLBOARD 152 STEEL STUD 16 GYPSUM WALLBOARD
WS				185 WALL - RATED ACOUSTIC 16 GYPSUM WALLBOARD 152 STEEL STUD 152 ACOUSTIC INSULATION 16 GYPSUM WALLBOARD
WS	3/4 HR			96 SHAFT WALL - CERAMIC TILE 6 CERAMIC TILE 3 GROUT 16 GYPSUM WALLBOARD 16 GYPSUM WALLBOARD 44 C-STEEL STUD 25 GYPSUM WALLBOARD
WS				EXTERIOR STEEL STUD WALL - METAL CLAD 25 METAL CLADDING 25 AIR SPACE 100 RIGID INSULATION AIR VAPOUR BARRIER EXTERIOR GYPSUM WALLBOARD 152 STEEL STUD 16 GYPSUM WALLBOARD

SYMBOL	FIRE RATING	SOUND RATING	CONSTRUCTION DETAIL	DESCRIPTION
WD				CONCRETE BLOCK 190 CONCRETE MASONRY UNIT - REFER TO STRUCTURAL
F1				CONCRETE SLAB ON GRADE CONCRETE SLAB - SEE STRUCTURAL VAPOUR RETARDER FREE DRAINING GRAVEL - REFER TO GEOTECHNICAL
F2	1 HR			CONCRETE SLAB SUSPENDED CONCRETE STRUCTURE - SEE STRUCTURAL
F3	1 HR			CONCRETE SLAB SUSPENDED - INSULATED CONCRETE STRUCTURE C/W WATERPROOFING ADMIXTURE AND WATERSTOPS - SEE STRUCTURAL AIR VAPOUR BARRIER RIGID INSULATION
				ACOUSTIC CEILING TILE 40 ACOUSTIC CEILING TILE
				METAL CEILING 38 METAL STRUCTURE 22 METAL FURRING 38 METAL CEILING PANEL

SYMBOL	FIRE RATING	SOUND RATING	CONSTRUCTION DETAIL	DESCRIPTION
R1	1 HR			BRICK OVER CONCRETE STRUCTURE 90 CLAY MASONRY UNITS 50 SAND FILTER FABRIC 150 RIGID INSULATION MODIFIED BITUMINOUS ROOFING CONCRETE STRUCTURE - REFER TO STRUCTURAL
R2				SBS ON CONCRETE STRUCTURE MODIFIED BITUMINOUS ROOFING 5 PROTECTION BOARD 5 RIGID INSULATION VAPOUR RETARDER CONCRETE STRUCTURE - REFER TO STRUCTURAL
R3				METAL ROOF ON CONCRETE STRUCTURE 25 METAL ROOFING 150 RIGID INSULATION MODIFIED BITUMINOUS ROOFING CONCRETE STRUCTURE - REFER TO STRUCTURAL
C1				GYPSUM WALL BOARD 40 METAL FURRING 16 GYPSUM WALLBOARD
C2				ACOUSTIC CEILING TILE 40 ACOUSTIC CEILING TILE
C3				METAL CEILING 38 METAL STRUCTURE 22 METAL FURRING 38 METAL CEILING PANEL

not for construction

public
215 - 309 W CD RD 100A ST
VANCOUVER BC V6B 1E5
TEL 604 758 4323
FAX 604 670 4323
WWW.PUBLICARCH.COM

UBC QMI & AMPEL

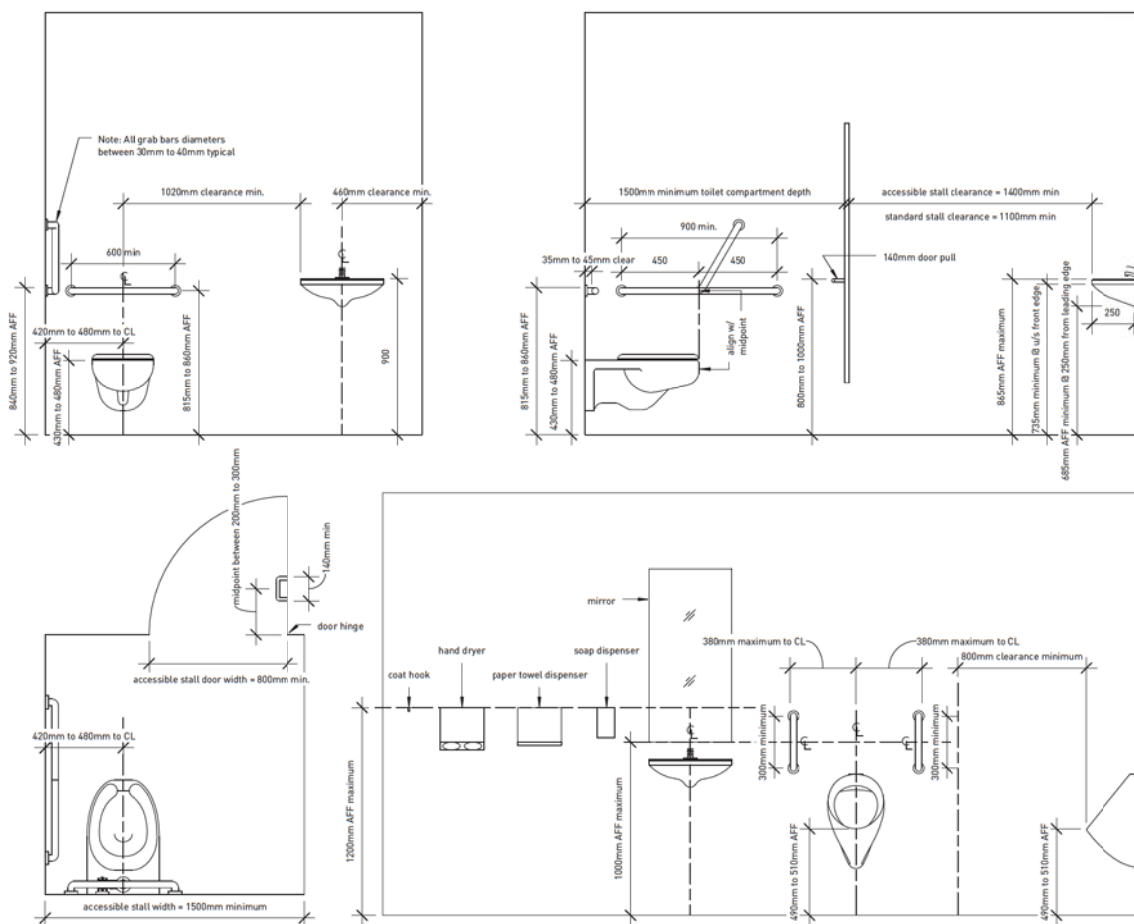
2355 EAST MALL, VANCOUVER, BC
PROJECT CODE 1335 STATUS DP
SCALE 1:5 DATE JANUARY 20, 2014

ROOM FINISH SCHEDULE

ROOM NUMBER	NAME	FLOOR FINISH	WALL FINISH				CEILING FINISH	COMMENTS
			NORTH	EAST	SOUTH	WEST		
001	UNFINISHED - SHARED	SLR	PNT	PNT	PNT	PNT	38 to 44	
002	UNFINISHED - SHARED	SLR	PNT	PNT	PNT	PNT	38 to 44	
004	QMI LAB	EXY	PNT	PNT	PNT	PNT	11, 12	
005	MECHANICAL ROOM	SLR	PNT	PNT	PNT	PNT	38 to 44	
006	STAIR 2	SLR	PNT	PNT	PNT	PNT		
007	STAIR 1	SLR	PNT	PNT	PNT	PNT		
008	UNFINISHED - SHARED	RES	PNT	PNT	PNT	PNT	38 to 44	
009	CORRIDOR	RES	PNT	PNT	PNT	PNT		
010	WC	RES	PNT	PNT	PNT	PNT		
011	WC	RES	PNT	PNT	PNT	PNT		
012	WC	RES	PNT	PNT	PNT	PNT		
013	ELECTRICAL SUB DISTRIBUTION ROOM	SLR	PNT	PNT	PNT	PNT	47	
014	MECHANICAL ROOM	SLR	PNT	PNT	PNT	PNT	47	
015	SERVICE CORRIDOR	SLR	PNT	PNT	PNT	PNT		
100	DISPLAY WINDOW	SLR	PNT	PNT	PNT	PNT		
101	RECEPTION	CPT	PNT	PNT	PNT	PNT		Subtracted from 19, 34
102	ENTRY VESTIBULE	NA	PNT	PNT	PNT	PNT		
104	QMI LAB	EXY	PNT	PNT	PNT	PNT	07	
105	QMI LAB	EXY	PNT	PNT	PNT	PNT	16, 17	
106	UNFINISHED - SHARED	RES	PNT	PNT	PNT	PNT	38 to 44	
107	QMI LAB	EXY	PNT	PNT	PNT	PNT	11, 12	
108	QMI PUMP ROOM						01	
110	STAIR 2	SLR	PNT	PNT	PNT	PNT		
111	STAIR 1	SLR	PNT	PNT	PNT	PNT		
112	LOUNGE / WAITING AREA	RES	PNT	PNT	PNT	PNT	27	
113	CORRIDOR	RES	PNT	PNT	PNT	PNT		
114	WC	RES	PNT	PNT	PNT	PNT		
115	WC	RES	PNT	PNT	PNT	PNT		
116	WC	RES	PNT	PNT	PNT	PNT		
117	ELECTRICAL COMM ROOM	SLR	PNT	PNT	PNT	PNT		
118	OFFICE SUPPORT	CPT	PNT	PNT	PNT	PNT	28	
119	PI OFFICE - NEW HIRE	CPT	PNT	PNT	PNT	PNT	18	
120	WORKSPACE	CPT	PNT	PNT	PNT	PNT	14, 15	
121	PI OFFICE - JONES	CPT	PNT	PNT	PNT	PNT	13	
122	WORKSPACE	CPT	PNT	PNT	PNT	PNT	14, 15	
123	WORKSPACE	CPT	PNT	PNT	PNT	PNT	24, 25	
124	WORKSPACE	CPT	PNT	PNT	PNT	PNT	24, 25	
125	MEETING ROOM	CPT	PNT	PNT	PNT	PNT	26	
165	MECHANICAL ROOM VESTIBULE	SLR	PNT	PNT	PNT	PNT	47	
200	CORRIDOR	RES	PNT	PNT	PNT	PNT		
201	PI OFFICE - T/C	CPT	PNT	PNT	PNT	PNT	21	
202	PI OFFICE - T/C	CPT	PNT	PNT	PNT	PNT	21	
203	WORKSPACE	CPT	PNT	PNT	PNT	PNT	22, 24, 25	
204	COMP/THEORY DISCUSSION AREA	CPT	PNT	PNT	PNT	PNT	23	
205	APP SCI LAB	EXY	PNT	PNT	PNT	PNT	31, 32	
207	QMI PUMP ROOM						01	
209	QMI LAB	EXY	PNT	PNT	PNT	PNT	16, 17	
211	STAIR 2	SLR	PNT	PNT	PNT	PNT		
212	MEETING ROOM	CPT	PNT	PNT	PNT	PNT	26	
213	WORKSPACE	CPT	PNT	PNT	PNT	PNT	22, 24, 25	
213	STAIR 2	SLR	PNT	PNT	PNT	PNT		
214	WORKSPACE	CPT	PNT	PNT	PNT	PNT	09, 18	
214	STAIR 3	SLR	PNT	PNT	PNT	PNT		
215	WORKSPACE	CPT	PNT	PNT	PNT	PNT	22, 24, 25	
216	PI OFFICE - APP SCI	CPT	PNT	PNT	PNT	PNT	33	
217	PI OFFICE - NEW HIRE	CPT	PNT	PNT	PNT	PNT	18	
218	PI OFFICE - T/C	CPT	PNT	PNT	PNT	PNT	21	
219	PI OFFICE - FOLK	CPT	PNT	PNT	PNT	PNT	08	
220	ELECTRICAL ROOM	SLR	PNT	PNT	PNT	PNT		
221	WC	RES	PNT	PNT	PNT	PNT		
222	WC	RES	PNT	PNT	PNT	PNT		
223	WC	RES	PNT	PNT	PNT	PNT		
224	STAIR 1	SLR	PNT	PNT	PNT	PNT		
300	CORRIDOR	RES	PNT	PNT	PNT	PNT		
301	PI OFFICE - SAWATZKY	CPT	PNT	PNT	PNT	PNT	04	
302	PI OFFICE - T/C	CPT	PNT	PNT	PNT	PNT	21	
303	WORKSPACE	CPT	PNT	PNT	PNT	PNT	22, 24, 25	
304	APP SCI LAB	EXY	PNT	PNT	PNT	PNT	31, 32	
307	APP SCI LAB	EXY	PNT	PNT	PNT	PNT	31, 32	
308	QMI PUMP ROOM						01	
309	QMI LAB	EXY	PNT	PNT	PNT	PNT	16, 17	
310	STAIR 2	SLR	PNT	PNT	PNT	PNT		
311	WORKSPACE	CPT	PNT	PNT	PNT	PNT	19, 28	
312	WORKSPACE	CPT	PNT	PNT	PNT	PNT	19, 28	
313	WORKSPACE	CPT	PNT	PNT	PNT	PNT	19, 28	
314	PI OFFICE - APP SCI	CPT	PNT	PNT	PNT	PNT	33	
315	WORKSPACE	CPT	PNT	PNT	PNT	PNT	19, 28	
316	PI OFFICE - APP SCI	CPT	PNT	PNT	PNT	PNT	33	
317	PI OFFICE - NEW HIRE	CPT	PNT	PNT	PNT	PNT	18	
318	ELECTRICAL COMM ROOM	SLR	PNT	PNT	PNT	PNT		
319	WC	RES	PNT	PNT	PNT	PNT		
320	WC	RES	PNT	PNT	PNT	PNT		
321	WC	RES	PNT	PNT	PNT	PNT		
322	LOUNGE	RES	PNT	PNT	PNT	PNT	27	
323	STAIR 1	SLR	PNT	PNT	PNT	PNT		
325	COMP/THEORY DISCUSSION AREA							
400	CORRIDOR	RES	PNT	PNT	PNT	PNT		
401	PI OFFICE - DAMASCELLI	CPT	PNT	PNT	PNT	PNT	04	
402	PI OFFICE - T/C	CPT	PNT	PNT	PNT	PNT	21	
403	WORKSPACE	CPT	PNT	PNT	PNT	PNT	22, 24, 25	
404	COMP/THEORY DISCUSSION AREA	CPT	PNT	PNT	PNT	PNT	23	
405	QMI LAB	EXY	PNT	PNT	PNT	PNT	16, 17	
407	QMI LAB	EXY	PNT	PNT	PNT	PNT	01	
408	QMI PUMP ROOM						01	
410	QMI LAB	EXY	PNT	PNT	PNT	PNT	02, 03	
411	MEETING ROOM	CPT	PNT	PNT	PNT	PNT	26	
412	WORKSPACE	CPT	PNT	PNT	PNT	PNT	19, 28	
413	WORKSPACE	CPT	PNT	PNT	PNT	PNT	05, 06	
414	WORKSPACE	CPT	PNT	PNT	PNT	PNT	19, 28	
415	WORKSPACE	CPT	PNT	PNT	PNT	PNT	19, 28	
416	WORKSPACE	CPT	PNT	PNT	PNT	PNT	19, 28	
417	PI OFFICE - T/C	CPT	PNT	PNT	PNT	PNT	21	
418	PI OFFICE - NEW HIRE	CPT	PNT	PNT	PNT	PNT	18	
419	ELECTRICAL ROOM	SLR	PNT	PNT	PNT	PNT		
420	WC	RES	PNT	PNT	PNT	PNT		
421	WC	RES	PNT	PNT	PNT	PNT		
422	STAIR 1	SLR	PNT	PNT	PNT	PNT		
500	STAIR 2	SLR	PNT	PNT	PNT	PNT		
501	MECHANICAL PENTHOUSE	SLR	PNT	PNT	PNT	PNT		
A-004	SHARED MAGNET FACILITY	EXY	PNT	PNT	PNT	PNT		
A-005	SHARED MAGNET FACILITY	EXY	PNT	PNT	PNT	PNT		
A-045	SHARED MAGNET FACILITY	EXY	PNT	PNT	PNT	PNT		
A-117	OFFICE, PI	CPT	PNT	PNT	PNT	PNT		
A-143	LAB	EXY	PNT	PNT	PNT	PNT		
A-143A	OFFICE, PI	CPT	PNT	PNT	PNT	PNT		
A-219	OFFICE, PI	CPT	PNT	PNT	PNT	PNT		
A-441	LAB	EXY	PNT	PNT	PNT	PNT		
A-443	LAB	EXY	PNT	PNT	PNT	PNT		

ROOM NUMBER	NAME	FLOOR FINISH	WALL FINISH				CEILING FINISH	COMMENTS
			NORTH	EAST	SOUTH	WEST		

ACCESSIBLE WASHROOM REQUIREMENTS



1 Washroom Accessories

Copyright reserved. This design and drawing is the exclusive property of PMP Public Architecture and Communication Inc. and cannot be used for any purpose without the written consent of the Architect. This drawing is not to be used for construction until issued for that purpose by the Architect. Prior to commencement of the Work the Contractor shall verify all dimensions, details and levels to identify any errors and omissions, ascertain any discrepancies between this drawing and the full Contract Documents, and bring these items to the attention of the Architect for clarification.

ISSUES + REVISIONS		
NO	DATE	DESCRIPTION
A	2013-11-08	ISSUED FOR SCHEMATIC DESIGN

not for construction

public

215 - 308 W COXDAVE ST
VANCOUVER BC V6B 1E5
TEL 604 681 4323
WWW.PUBLICDESIGN.CA

UBC QMI & AMPEL

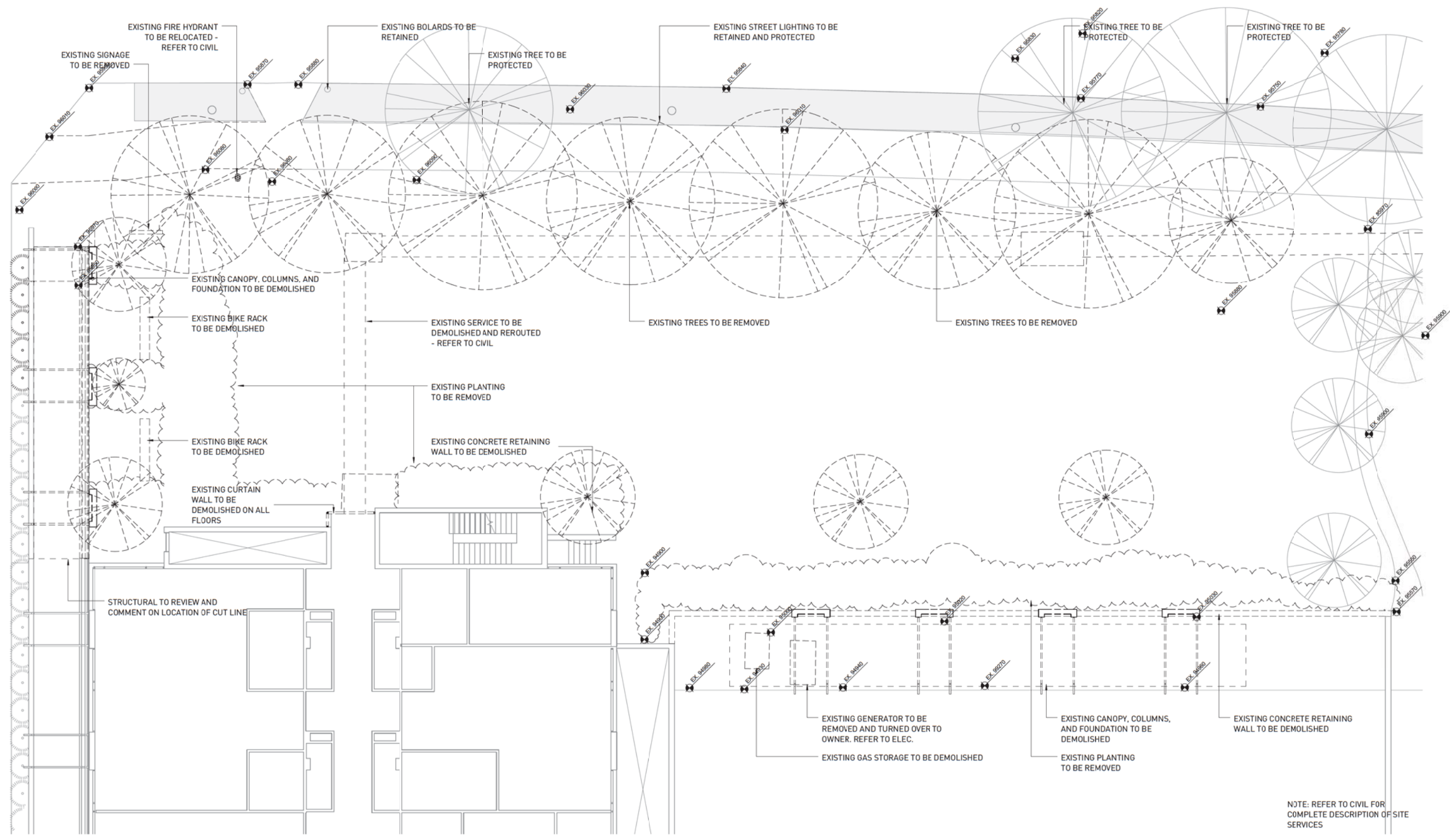
2355 EAST MALL, VANCOUVER, BC

PROJECT CODE	STATUS
1335	DP
SCALE	DATE
1 : 20	JANUARY 20, 2014

ROOM SCHEDULES

SHEET
A0.03

ISSUES + REVISIONS		
NO	DATE	DESCRIPTION
A	2013-11-08	ISSUED FOR SCHEMATIC DESIGN
B	2014-01-20	ISSUED FOR DP



NOTE: REFER TO CIVIL FOR COMPLETE DESCRIPTION OF SITE SERVICES

1 DEMO PLAN
1/A3.01 1:100

not for construction

public

215 - 307 W CD 100A ST
VANCOUVER BC V6B 1E5
TEL 604 758 4211
FAX 604 873 4313
WWW.PUBLICDESIGN.CA

UBC QMI & AMPEL

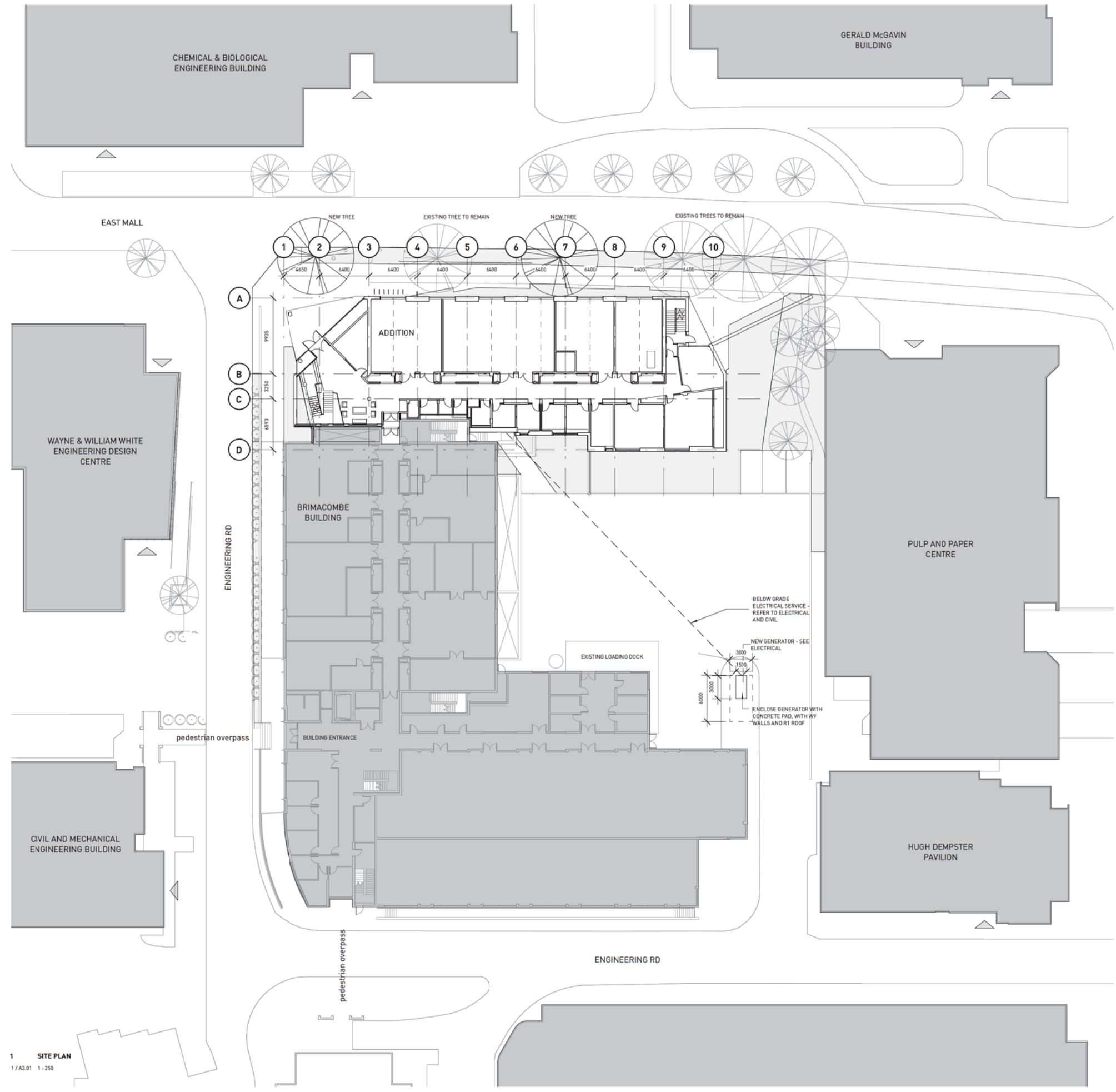
2355 EAST MALL, VANCOUVER, BC	
PROJECT CODE	STATUS
1335	DP
SCALE	DATE
1:100	JANUARY 20, 2014

DEMO PLAN
SHEET
A0.04



Copyright reserved. This design and drawing is the exclusive property of WMM Public Architecture and Communication Inc. and cannot be used for any purpose without the written consent of the Architect. This drawing is not to be used for construction until issued for that purpose by the Architect. Prior to commencement of the Work the Contractor shall verify all dimensions, details and levels to identify any errors and omissions, ascertain any discrepancies between this drawing and the full Contract Documents, and bring these items to the attention of the Architect for clarification.

ISSUES + REVISIONS		
NO	DATE	DESCRIPTION
A	2013-11-08	ISSUED FOR SCHEMATIC DESIGN
B	2014-01-20	ISSUED FOR DP



not for construction

public

215 - 307 W 10TH AVENUE
VANCOUVER BC V6B 1E5
TEL 604 758 4232
FAX 604 673 4323
WWW.PUBLICARCHITECTURE.COM

UBC QMI & AMPEL

2355 EAST MALL, VANCOUVER, BC	
PROJECT CODE	STATUS
1335	DP
SCALE	DATE
1 : 250	JANUARY 20, 2014

SITE PLAN
SHEET
A0.05



1 SITE PLAN
1 / A3.01 1 : 250

2014-01-15 10:28 AM C:\Users\1335\OneDrive\Public\2355 East Mall\1335_Site Plan.dwg