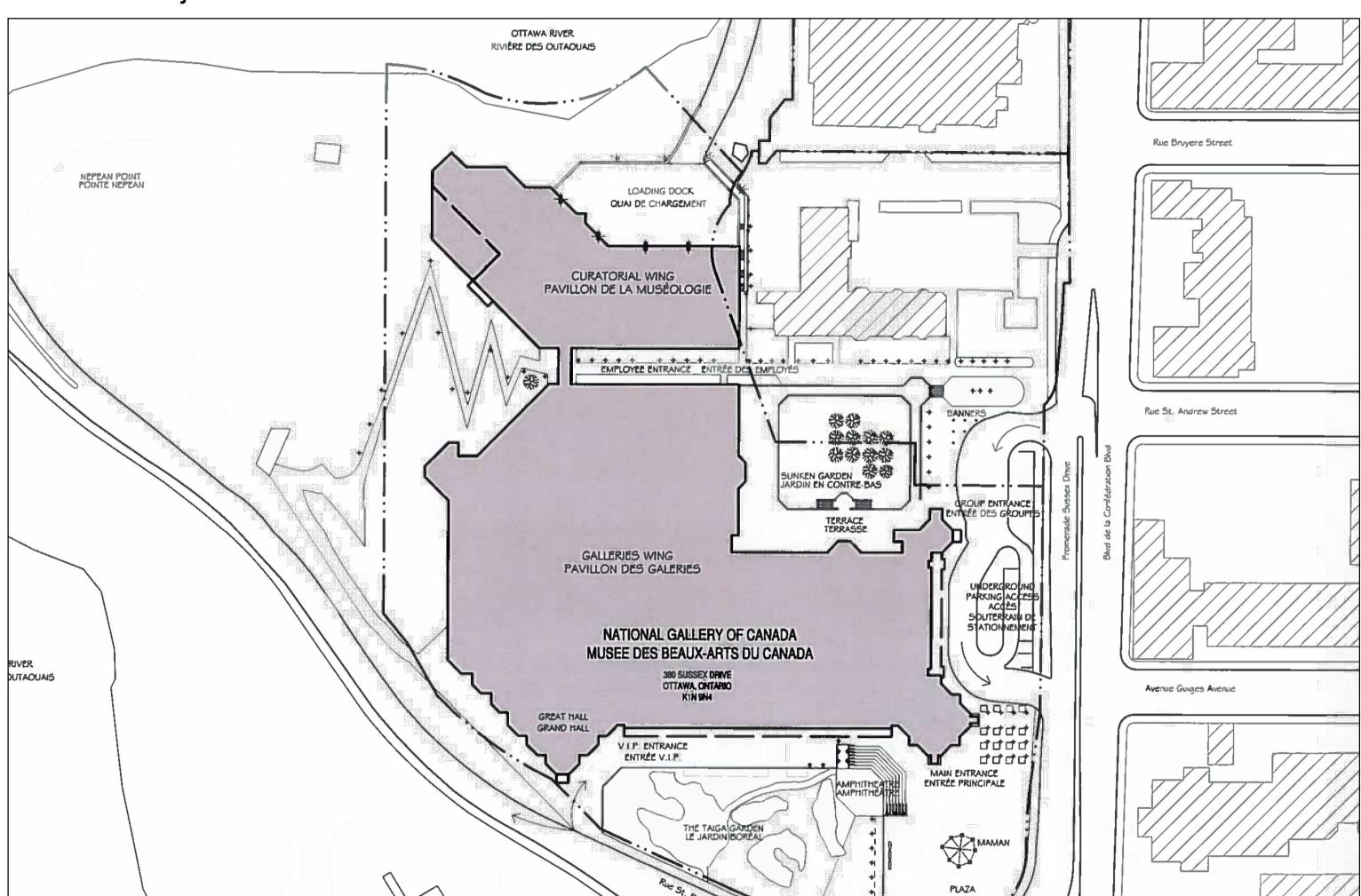
NATIONAL GALLERY OF CANADA

UNDERRATED BREAKER PANEL REPLACEMENT

Stantec Project Number: 163302068

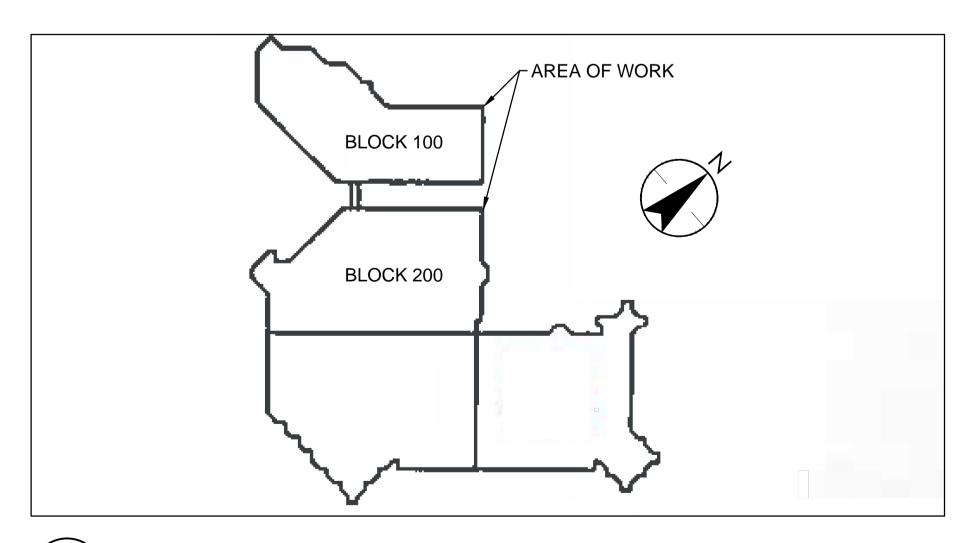


DRAWING LIST		
SHEET#	SHEET NAME	
ELECTRICAL		
E0	SITE PLAN, DRAWING LIST, AND LEGEND	
E1	SINGLE-LINE DIAGRAM - AREA OF WORK	
E2	BLOCK 100 PANELS - PARTIAL FLOOR PLANS	
E3	BLOCK 200 PANELS - PARTIAL FLOOR PLANS	
E4	BLOCK 100 - PANEL SCHEDULES	
E5	BLOCK 200 - PANEL SCHEDULES	

B

DRAWING LIST





C MAIN BUILDING - KEY PLAN - AREA OF WORK

E0 NTS



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- 3. EXCEPT AS NOTED OTHERWISE ALL EQUIPMENT TO BE RELOCATED IS SHOWN IN THICK DASHED LINES AND INDICATED WITH 'R'.
- EXCEPT AS NOTED OTHERWISE ALL NEW EQUIPMENT IS SHOWN IN THICK SOLID LINES.
- 5. PANELS IDENTIFIED TO BE RETROFITTED DURING A MAXIMUM OF FOUR (4) OVERNIGHT SHUTDOWNS, EACH SCHEDULED WITH THE OWNER A MINIMUM OF TEN (10) WORKING DAYS IN ADVANCE.
- 6. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING EXISTING CONDITIONS, INCLUDING EQUIPMENT LOCATIONS, MOUNTING DETAILS AND DIMENSIONS, AND CIRCUIT BREAKER SIZES, QUANTITIES AND CHARACTERISTICS. TO ACHIEVE SUITABLE CUSTOM RETROFIT PANELS CONFORMING TO SPECIFICATIONS.

L	EGEND
SYMBOL	DESCRIPTION
_#_A	CIRCUIT BREAKER
NAME pmss #	ELECTRICAL PANEL

		Appd.	YY.MM.DD
	K.B.	P.D.	16.11.25
	K.B.	P.D.	16.05.12
	Ву	Appd.	YY.MM.DD
B.Y.	P.D.	K.B.	16.02.11
Dwn.	Chkd.	Dsgn.	YY.MM.DD
		K.B. K.B. By	K.B. P.D. K.B. P.D. By Appd. B.Y. P.D. K.B.

Permit-Sec

Client/Project

NATIONAL GALLERY OF CANADA

UNDERRATED BREAKER PANEL REPLACEMENT

380 SUSSEX DRIVE, OTTAWA, ON, K1N 9N4

Title

ELECTRICAL
SITE PLAN, DRAWING LIST, AND LEGEND

Project No. 163302068	Scale AS SHOWN	
Drawing No.	Sheet	Revision
EO	1 of 6	0

ORIGINAL SHEET - ISO A1



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Permit-Seal

Client/Project

NATIONAL GALLERY OF CANADA

UNDERRATED BREAKER PANEL REPLACEMENT

380 SUSSEX DRIVE, OTTAWA, ON, K1N 9N4

Title

ELECTRICAL SINGLE-LINE DIAGRAM AREA OF WORK

Project No.
163302068

AS SHOWN

Drawing No.

Sheet

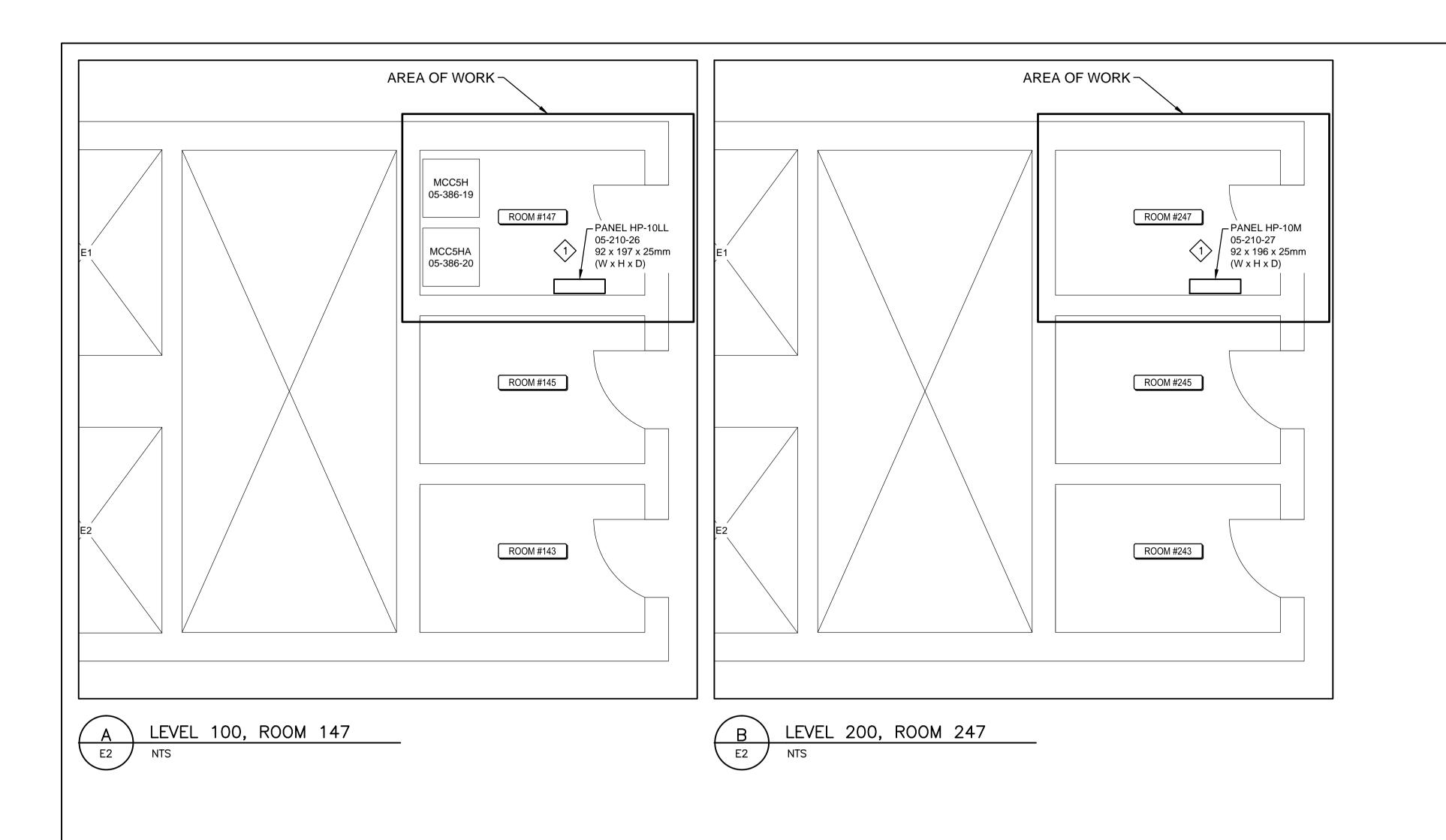
2 of 6

O

H/24 9:56 AM By: Yach, Brian

A SINGLE LINE DIAGRAM – AREA OF WORK

E1 NTS





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INDICATED WITH 'R'.

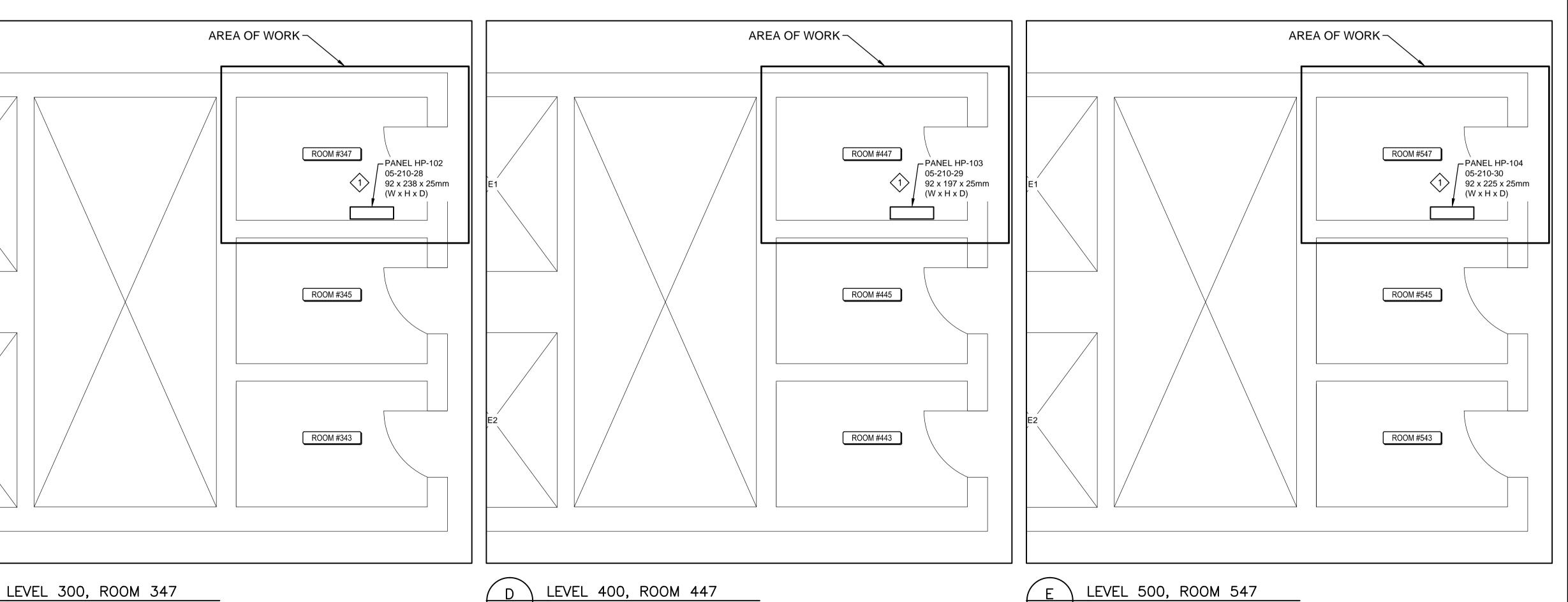
EXCEPT AS NOTED OTHERWISE ALL EXISTING EQUIPMENT TO REMAIN IS SHOWN IN THIN SOLID LINES.

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DRAWING NOTES

RETROFIT PANEL, KEEPING EXISTING ENCLOSURE, DURING OVERNIGHT SHUTDOWN. RECONNECT ALL EXISTING SUPPLY AND FEEDER CIRCUIT WIRING TO NEW CIRCUIT BREAKERS, PERFORMING TESTING AS OUTLINED IN SPECIFICATIONS.



Client/Project

NATIONAL GALLERY OF CANADA

UNDERRATED BREAKER PANEL REPLACEMENT

380 SUSSEX DRIVE, OTTAWA, ON, K1N 9N4

ELECTRICAL

BLOCK 100 PANELS
PARTIAL FLOOR PLANS

Project No.
163302068

AS SHOWN

Drawing No.
Sheet

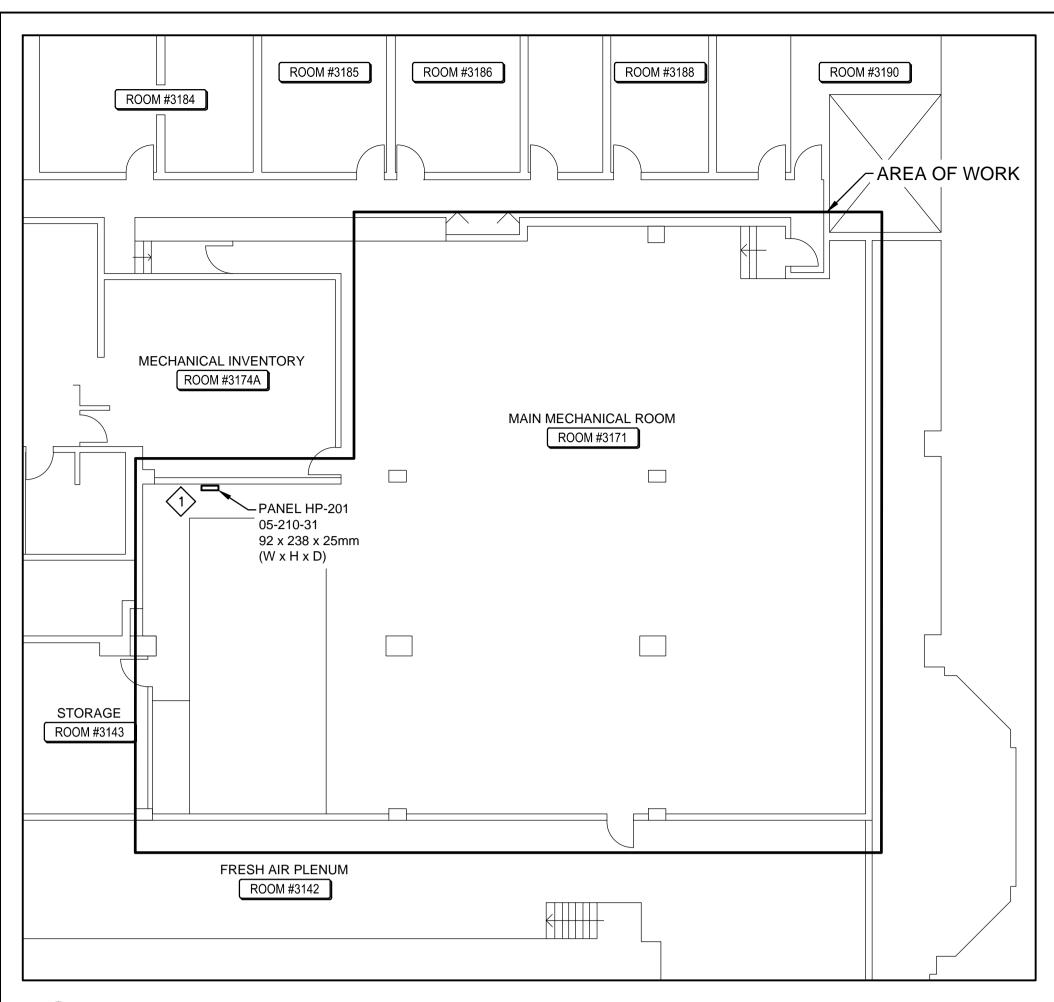
Revision

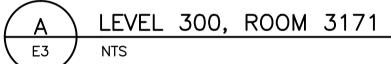
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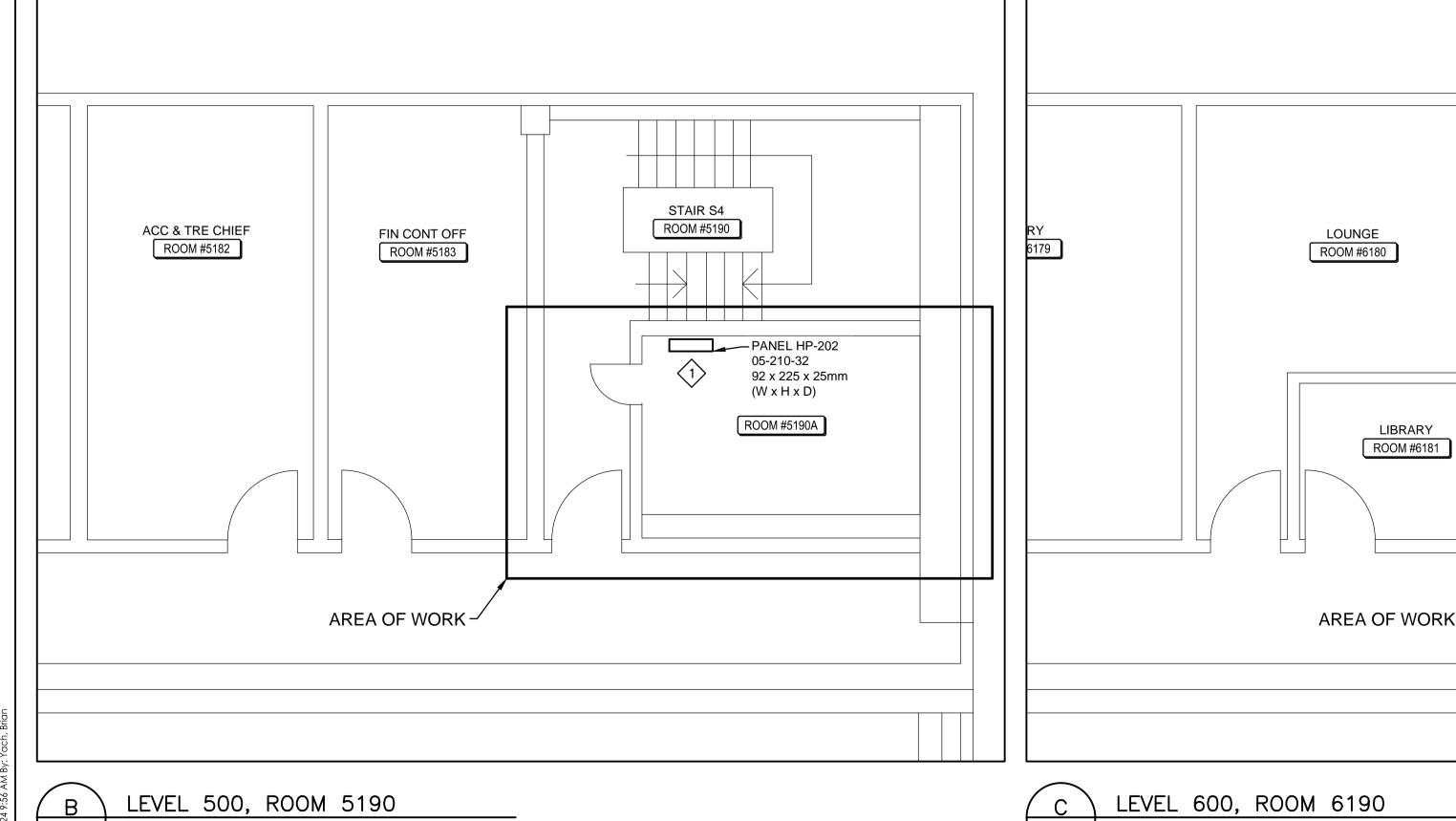
W:\active\163302068_NGC_ 2016/11/24 9:56 AM By: Yach

C E2

ORIGINAL SHEET - ISO A1









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DRAWING NOTES

RETROFIT PANEL, KEEPING EXISTING ENCLOSURE, DURING OVERNIGHT SHUTDOWN. RECONNECT ALL EXISTING SUPPLY AND FEEDER CIRCUIT WIRING TO NEW CIRCUIT BREAKERS, PERFORMING TESTING AS OUTLINED IN SPECIFICATIONS.

By Appd. YY.MM.DD Revision K.B. P.D. 16.11.25 B FOR FINAL REVIEW
 K.B.
 P.D.
 16.05.12

 By
 Appd.
 YY.MM.DD
 A FOR REVIEW Issued
 B.Y.
 P.D.
 K.B.
 16.02.11

 Dwn.
 Chkd.
 Dsgn.
 YY.MM.DD
 File Name: 02068E-3.dwg

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Client/Project

NATIONAL GALLERY OF CANADA

UNDERRATED BREAKER PANEL REPLACEMENT

380 SUSSEX DRIVE, OTTAWA, ON, K1N 9N4

ELECTRICAL BLOCK 200 PANELS PARTIAL FLOOR PLANS

Scale Project No. AS SHOWN 163302068 Sheet Revision Drawing No.

4 of 6

E3

E3

STAIR S4

ROOM #6190

ROOM #6190A

PANEL HP-204 (RIGHT)

ROOM #6125B

05-210-33

 $(W \times H \times D)$

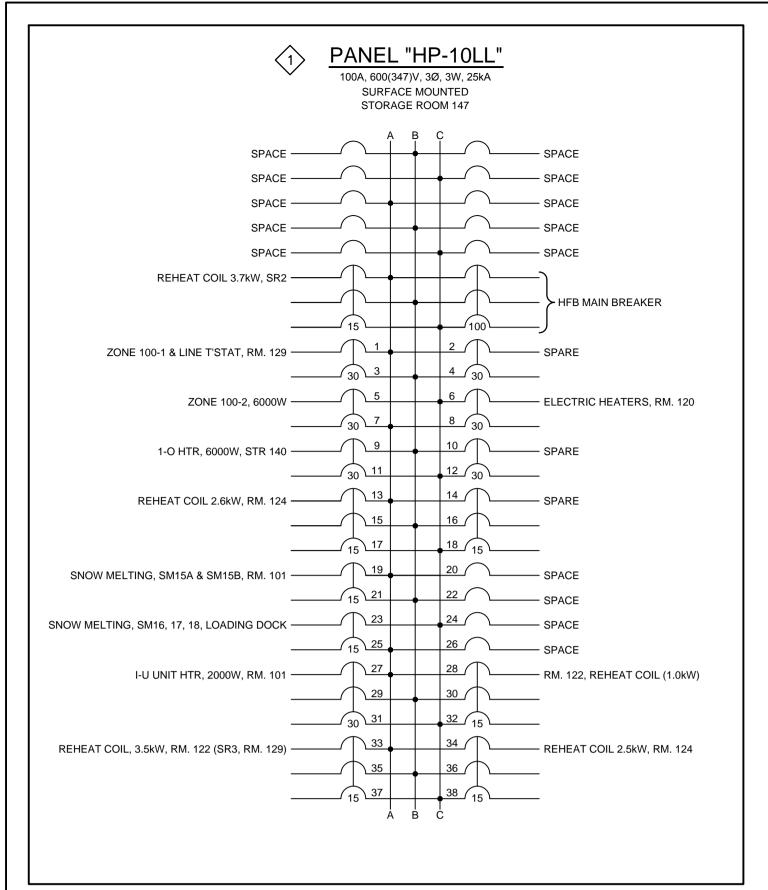
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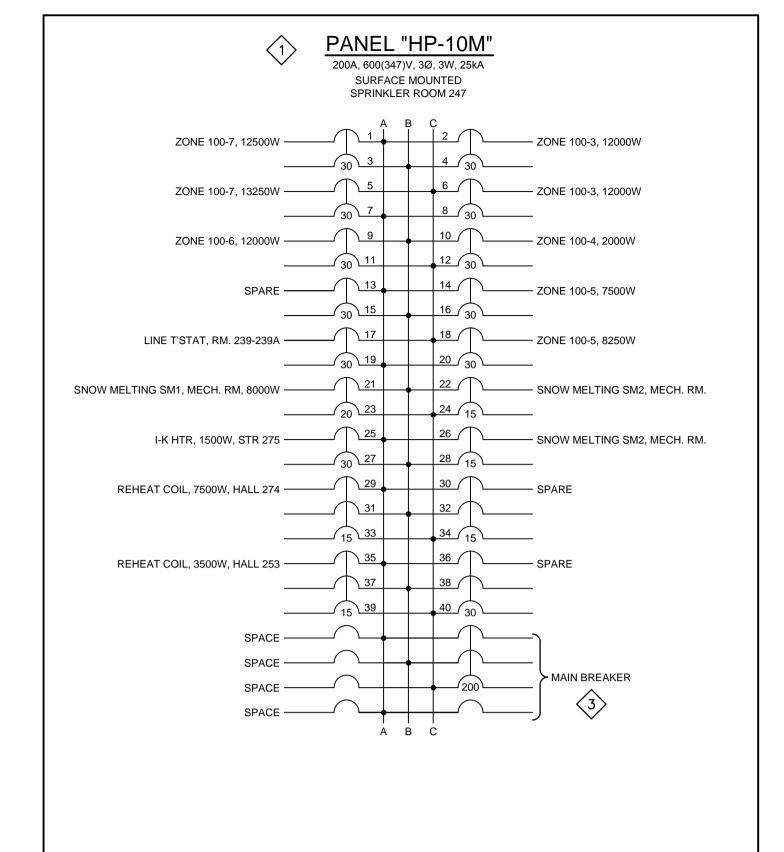
PANEL HP-204 (LEFT) -

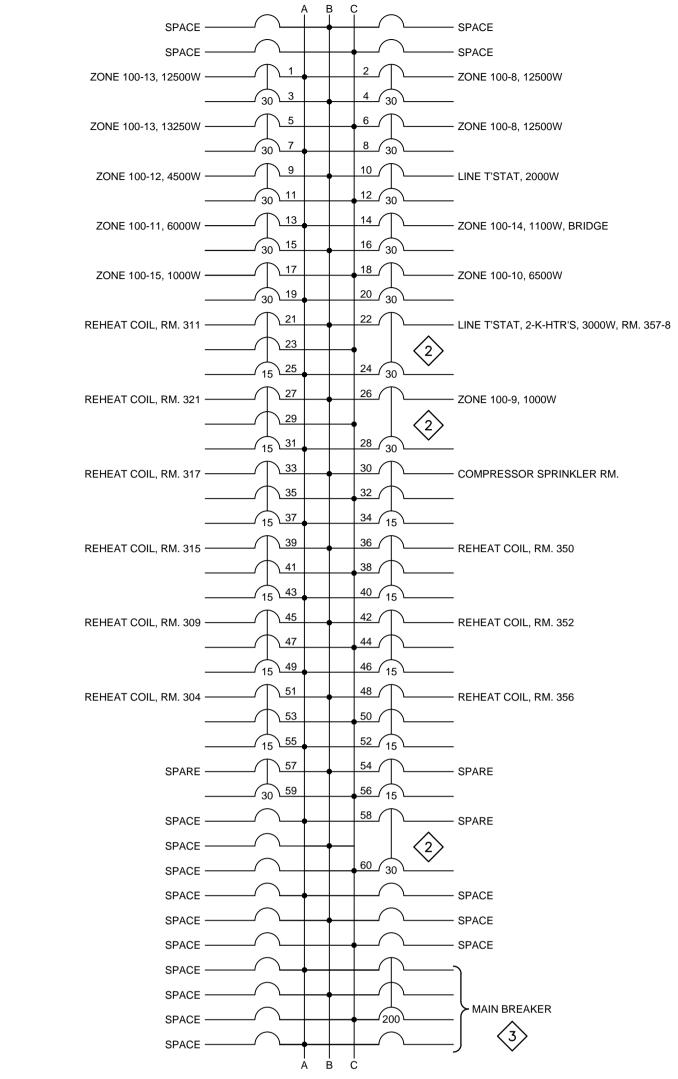
92 x 225 x 25mm

05-210-33

 $(W \times H \times D)$







PANEL "HP-102"

200A, 600(347)V, 3Ø, 3W, 25kA

SURFACE MOUNTED

MECHANICAL ROOM 347



By Appd. YY.MM.D Revision K.B. P.D. 16.11.25 B FOR FINAL REVIEW K.B. P.D. 16.05.12

By Appd. YY.MM.DD A FOR REVIEW Issued
 B.Y.
 P.D.
 K.B.
 16.02.11

 Dwn.
 Chkd.
 Dsgn.
 YY.MM.DD
 File Name: 02068E-4.dwg

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INDICATED WITH 'R'.

CIRCUITS.

SHOWN IN THICK SOLID LINES.

WORKING DAYS IN ADVANCE.

GENERAL NOTES

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NOT scale the drawing - any errors or omissions shall be reported to

EXCEPT AS NOTED OTHERWISE ALL EXISTING

EQUIPMENT TO REMAIN IS SHOWN IN THIN SOLID LINES.

EXCEPT AS NOTED OTHERWISE ALL EQUIPMENT TO BE

EXCEPT AS NOTED OTHERWISE ALL EQUIPMENT TO BE

EXCEPT AS NOTED OTHERWISE ALL NEW EQUIPMENT IS

PANELS IDENTIFIED TO BE RETROFITTED DURING A MAXIMUM OF FOUR (4) OVERNIGHT SHUTDOWNS, EACH SCHEDULED WITH THE OWNER A MINIMUM OF TEN (10)

CONTRACTOR IS RESPONSIBLE FOR CONFIRMING EXISTING CONDITIONS, INCLUDING EQUIPMENT LOCATIONS, MOUNTING DETAILS AND DIMENSIONS,

AND CIRCUIT BREAKER SIZES, QUANTITIES AND

CHARACTERISTICS. TO ACHIEVE SUITABLE CUSTOM RETROFIT PANELS CONFORMING TO SPECIFICATIONS.

CONTRACTOR TO CONFIRM ACCURACY OF PANEL SCHEDULES, BREAKER SIZES, QUANTITIES, POSITIONS

TYPEWRITTEN PANEL SCHEDULES. ALL NEW CIRCUIT

BREAKERS TO BE RATED FOR A MINIMUM OF 25kAIC OR PART OF A SERIES RATED SYSTEM WHEREBY THE EQUIVALENT INTERRUPTING RATING IS ACHIEVED. CONTRACTOR TO ADJUST BREAKER LOCATIONS AND/OR PROVIDE NEW WIRING AND SPLICE TO EXISTING, AS REQUIRED TO EXTEND EXISTING

CIRCUIT BREAKER IS A 2-POLE BUT OCCUPIES A 3-POLE

AND CHARACTERISTICS, AND PROVIDE NEW

RELOCATED IS SHOWN IN THICK DASHED LINES AND

DEMOLISHED IS SHOWN IN THICK DASHED LINES.

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Client/Project NATIONAL GALLERY OF CANADA

UNDERRATED BREAKER PANEL REPLACEMENT

380 SUSSEX DRIVE, OTTAWA, ON, K1N 9N4

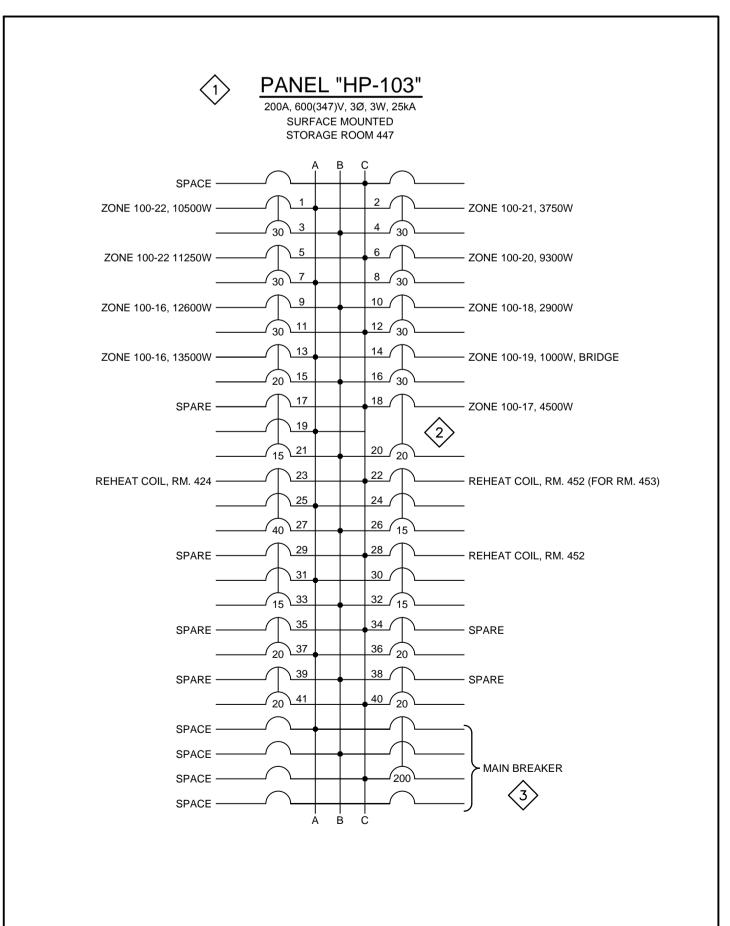
ELECTRICAL BLOCK 100

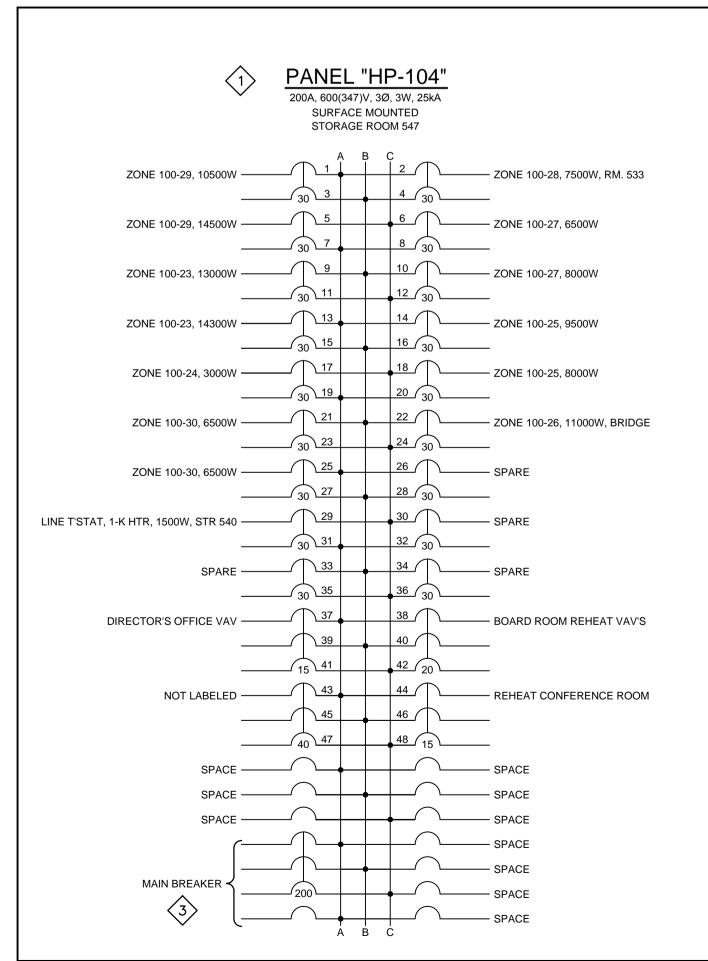
PANEL SCHEDULES Scale

Project No. AS SHOWN 163302068 Drawing No. Sheet Revision 5 of 6

BLOCK 100 PANEL SCHEDULES - PANEL "HP-10LL"

BLOCK 100 PANEL SCHEDULES - PANEL "HP-10M"



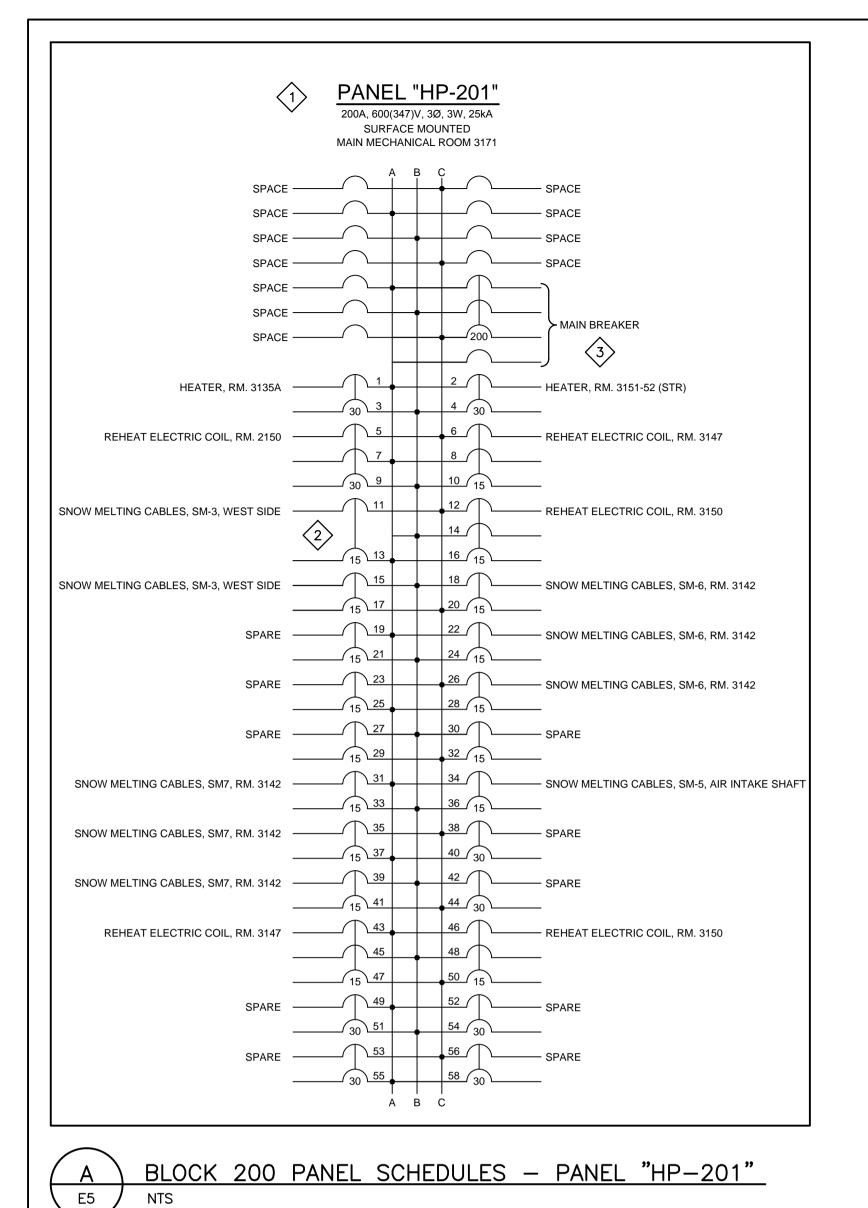


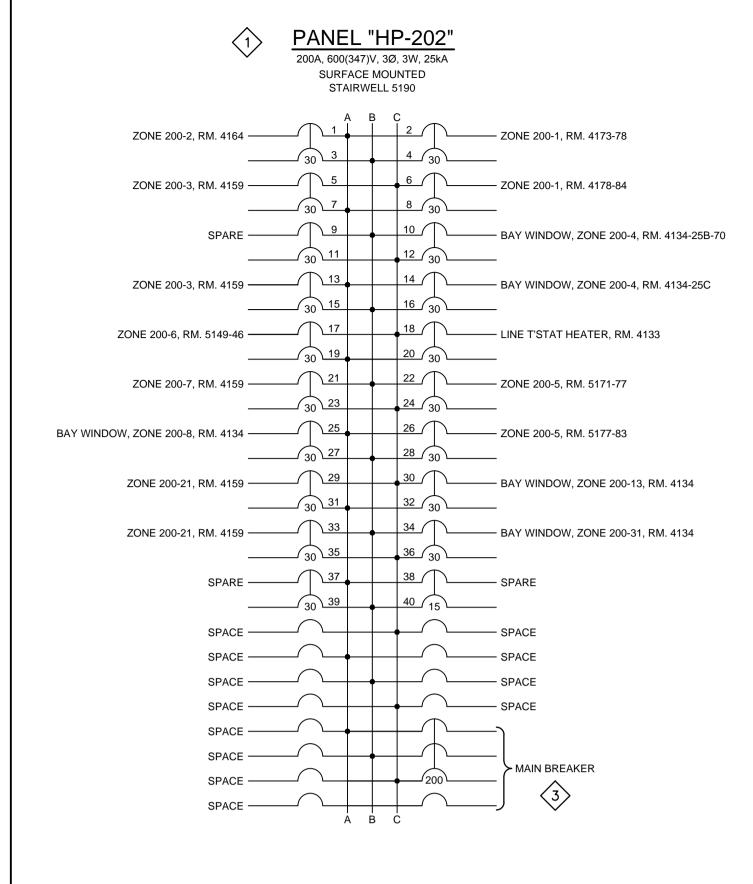
BLOCK 100 PANEL SCHEDULES - PANEL "HP-104" E4

BLOCK 100 PANEL SCHEDULES - PANEL "HP-103" E4

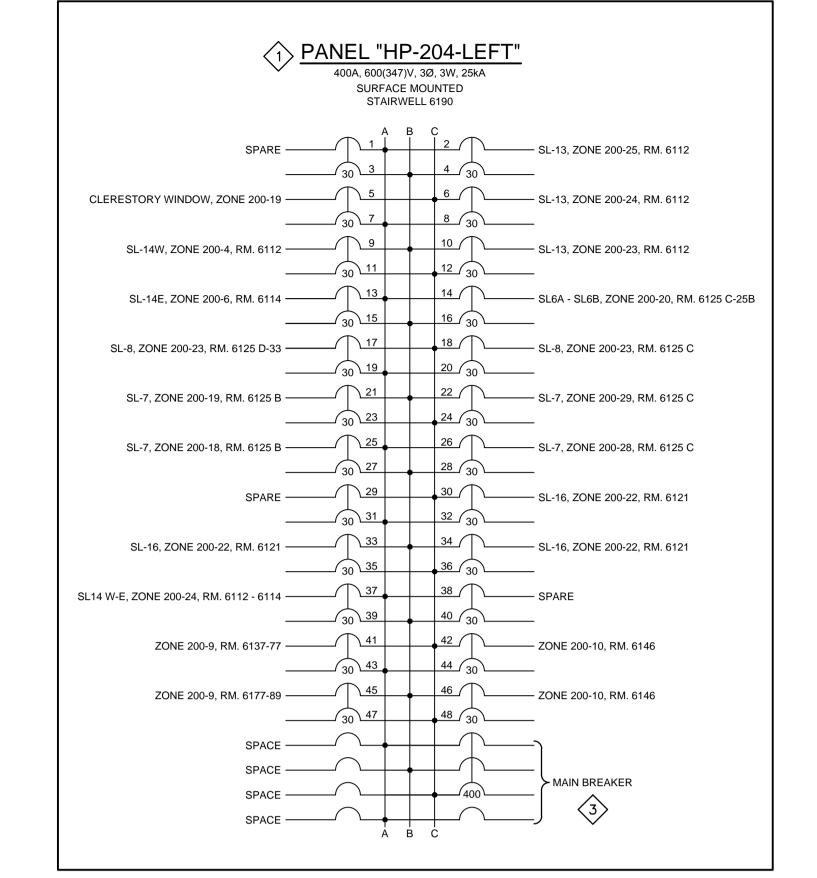
BLOCK 100 PANEL SCHEDULES - PANEL "HP-102"

ORIGINAL SHEET - ISO A1

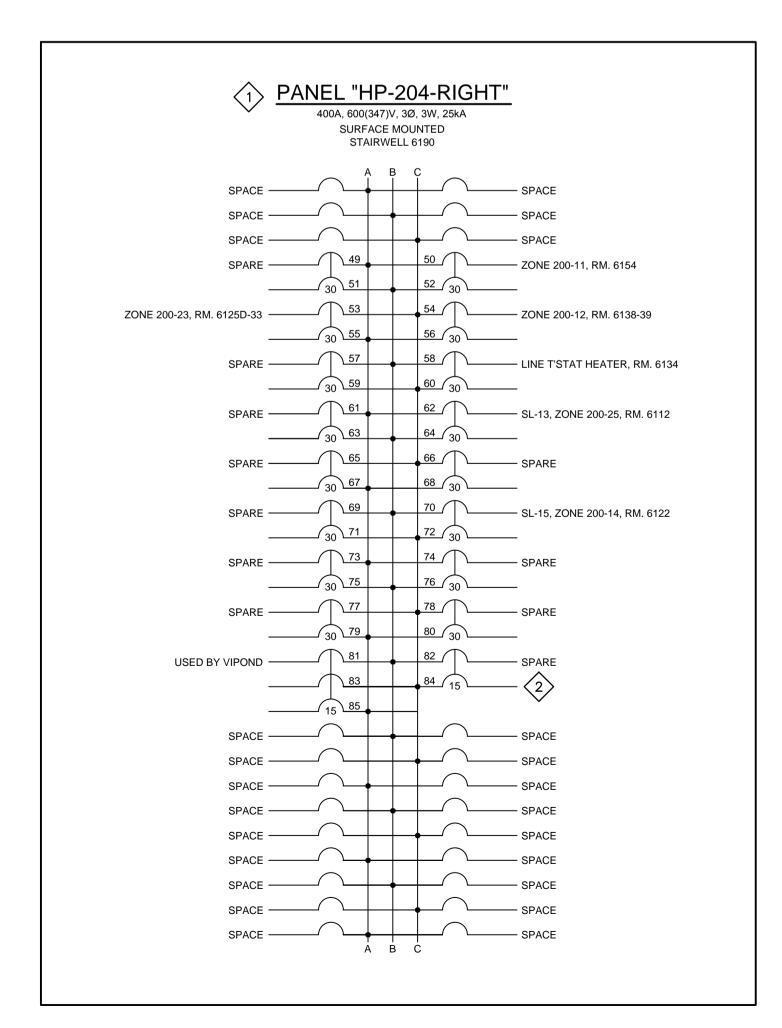








BLOCK 200 PANEL SCHEDULES - PANEL "HP-204-LEFT"



BLOCK 200 PANEL SCHEDULES - PANEL "HP-204-RIGHT"



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INDICATED WITH 'R'. **EXCEPT AS NOTED OTHERWISE ALL NEW EQUIPMENT IS**

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DRAWING NOTES

CONTRACTOR TO CONFIRM ACCURACY OF PANEL SCHEDULES, BREAKER SIZES, QUANTITIES, POSITIONS AND CHARACTERISTICS, AND PROVIDE NEW TYPEWRITTEN PANEL SCHEDULES. ALL NEW CIRCUIT BREAKERS TO BE RATED FOR A MINIMUM OF 25kAIC OR PART OF A SERIES RATED SYSTEM WHEREBY THE EQUIVALENT INTERRUPTING RATING IS ACHIEVED. CONTRACTOR TO ADJUST BREAKER LOCATIONS AND/OR PROVIDE NEW WIRING AND SPLICE TO EXISTING, AS REQUIRED TO EXTEND EXISTING CIRCUITS.

CIRCUIT BREAKER IS A 2-POLE BUT OCCUPIES A 3-POLE SPACE IN THE EXISTING PANEL. CONTRACTOR TO PROVIDE NEW 2-POLE BREAKER, AND SPACE, AS REQUIRED TO FACILITATE CONNECTION OF EXISTING

WIRING AND BALANCING OF PHASES. MAIN CIRCUIT BREAKER IS A 3-POLE BUT OCCUPIES A 4-POLE SPACE IN THE EXISTING PANEL.

By Appd. YY.MM.DD K.B. P.D. 16.11.25 FOR FINAL REVIEW K.B. P.D. 16.05.12

By Appd. YY.MM.DD A FOR REVIEW
 B.Y.
 P.D.
 K.B.
 16.02.11

 Dwn.
 Chkd.
 Dsgn.
 YY.MM.DD
 File Name: 02068E-5.dwa

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Client/Project NATIONAL GALLERY OF CANADA

UNDERRATED BREAKER PANEL REPLACEMENT

380 SUSSEX DRIVE, OTTAWA, ON, K1N 9N4

ELECTRICAL BLOCK 200

PANEL SCHEDULES Project No.

Scale AS SHOWN 163302068 Revision Drawing No. Sheet

ORIGINAL SHEET - ISO A1

6 of 6