PACKAGE B:
THIS PACKAGE CONTAINS A SECURITY REQUIREMENT

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300 ARCHITECTURAL / ARCHITECTURE
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600 CIVIL / CIVIL

700 COMMUNICATION / COMMUNICATION

800 SECURITY / SÉCURITÉ

900 INTERIOR DESIGN / CONCEPTION INTÉRIEUR

DATE 23 June 2026

LAUSCH, LINDA 100 Digitally signed by LAUSCH, LINDA 100 Date: 2026.06.23 11:17:28 -04'00'
Linda Lausch, Project Manager

DCC NO. – CDC NO. KN229981

ST JOHN, STEVEN 376 Digitally signed by ST JOHN, STEVEN 376 Date: 2026.06.24 11:16:14 -04'00'
Steve St. John, Chief Fire Inspector

PROJECT NO. – PROJET NO. OK-000020

SANTOS, FERNANDO 989 Digitally signed by SANTOS, FERNANDO 989 Date: 2026.06.23 14:37:40 -04'00'
Fernando Santos, Engineering Officer

JOB NO. K-K74-7701/35

R13 Life Safety Upgrades
R13 Massey Hall,
Address | Adresse
7 Valour Drive, Royal Military College, CFB Kingston, Kingston
City | Ville
Ontario
Province | Province

Canada

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0 50 100 200 250 300mm



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150 ISABELLA ST.
OTTAWA (ONTARIO) CANADA K1S 1V7
PHONE: 613-238-0440 | FAX: 613-238-6597 | WWW.ARCHITECTURE49.COM

wsp

LIS OF A IN S LIS E ES ESSINS

300 ARCHITECTURAL / ARCHITECTURE

300	CODE REQUIREMENTS & GENERAL NOTES
301	LEVEL 0 FLOOR PLAN - DEMOLITION LAYOUT
302	LEVEL 1 FLOOR PLAN - DEMOLITION LAYOUT
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403	LEVEL 3 FIRE PROTECTION PLAN DEMOLITION
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502	LEVEL 1 LIGHTING & FIRE ALARM PLAN - DEMOLITION LAYOUT
503	LEVEL 2 LIGHTING & FIRE ALARM PLAN - DEMOLITION LAYOUT
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505	LEVEL 0 LIGHTING PLAN - NEW WORK LAYOUT
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507	LEVEL 2 LIGHTING PLAN - NEW WORK LAYOUT
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509	LEVEL 0 FIRE ALARM PLAN - NEW WORK LAYOUT
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512	LEVEL 3 FIRE ALARM PLAN - NEW WORK LAYOUT
513	FIRE ALARM RISER DIAGRAMS & DETAILS

SET NO. - SERIE NO.

DATE

LINDA LAUSCH, PROJECT MANAGER

DCC NO. - CDC NO.

N

STEVE ST. JOHN, CHIEF FIRE INSPECTOR

PROJECT NO. - PROJET NO.

CA

XXXX

JOB NO.

ISSUED FOR TENDER

Canada

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MASSEY BUILDING R13
7 VALOUR DRIVE
ROYAL MILITARY COLLEGE, CFB KINGSTON
ADDRESS | ADRESSE

KINGSTON
CITY | VILLE

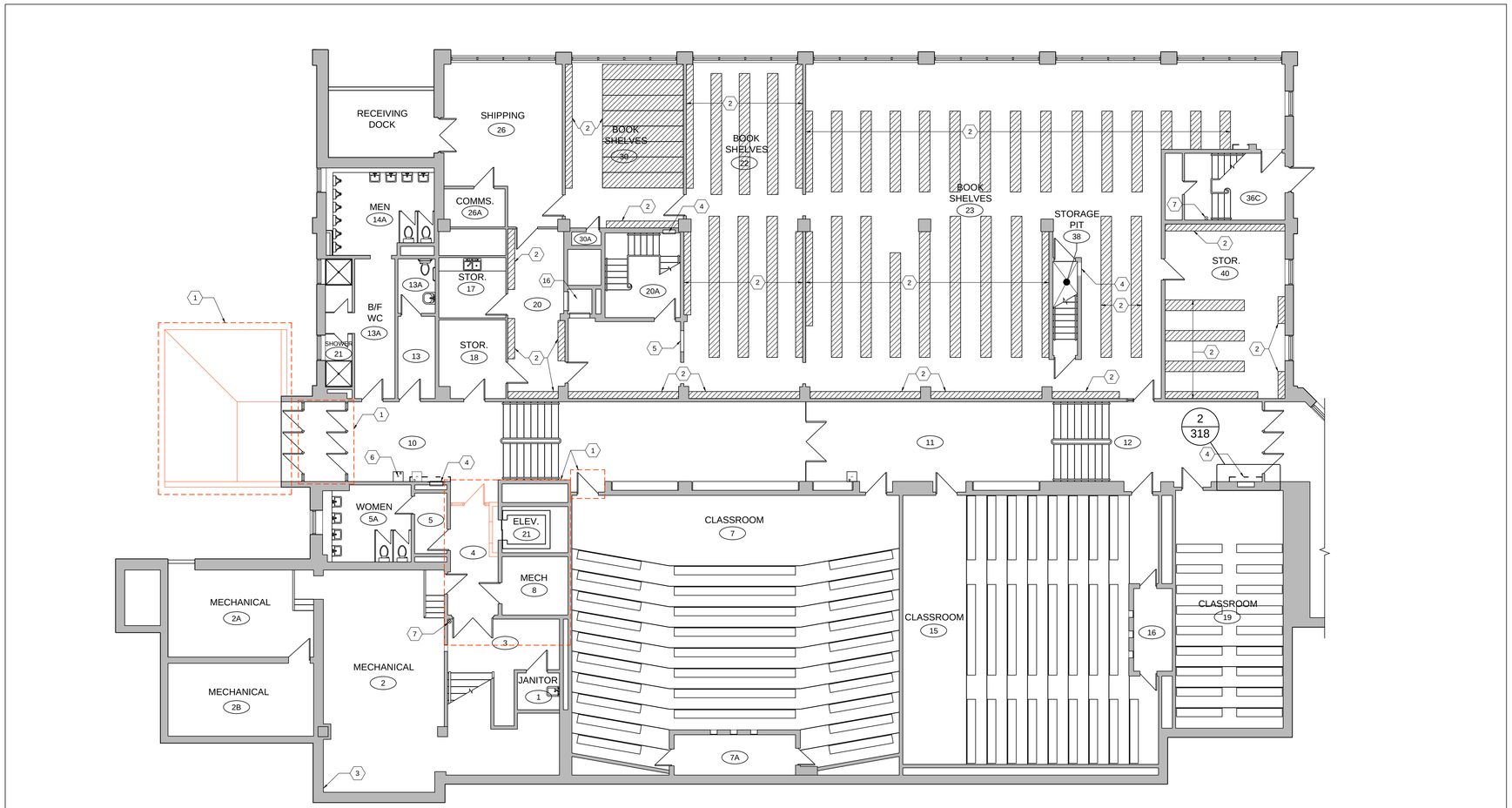
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0 50 100 200 250 300mm



1
301

FLOOR PLAN - LEVEL 0
EXISTING & DEMO LAYOUT

SCALE: 1:100

GENERAL NOTES:

- ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE.
- SITE CONFIRM ALL EXISTING CONDITIONS AND VERIFY ALL DIMENSIONS BEFORE START OF WORK.
- REFER TO MECHANICAL AND ELECTRICAL FOR EXTENT OF REMOVALS AND UPGRADES.
- CAREFULLY REMOVE AND REINSTATE EXISTING CEILINGS AS REQUIRED FOR SPRINKLER INSTALLATION. FOR ENTIRE NEW WORK, ASSUME ~1620 sq.m. ACT REMOVAL, ~245 sq.m. GYPSUM BOARD CEILING REMOVAL, AND ~50 sq.m. METAL PANEL SUSPENDED CEILING REMOVAL. PATCH AND REFINISH GYPSUM BOARD CEILINGS TO MATCH ORIGINAL PAINT COLOUR, AS REQUIRED WHERE DAMAGED. PAINT COLOUR TO BE SELECTED BY DCC REPRESENTATIVE. FINAL SPRINKLER LAYOUT TO BE DETERMINED BY SPRINKLER CONTRACTOR. CONFIRM ON-SITE. NOTIFY DCC REPRESENTATIVE OF ANY DISCREPANCIES.
- CAREFULLY REMOVE AND REINSTATE EXISTING LIGHTING FIXTURES AS REQUIRED FOR SPRINKLER INSTALLATION. ASSUME ~500 LIGHT FIXTURES TO BE REMOVED AND REINSTATED.
- PROVIDE NEW CUT OPENINGS IN WALLS AND FLOORS AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS. LOCATE OPENINGS TO AVOID EXISTING STRUCTURAL ELEMENTS. SEAL ALL NEW PENETRATIONS IN EXISTING WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR AFTER INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS WHERE REQUIRED. REFER TO LIFE SAFETY, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECS.
- SEAL ALL EXISTING PENETRATIONS IN WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR. WHERE REQUIRED.
- EXISTING BOOKSHELVES TO REMAIN. DO NOT MOVE OR DISTURB CONTENTS. PROVIDE PROTECTION FOR BOOKSHELVES AND THEIR CONTENTS DURING DURATION OF CONSTRUCTION. COORDINATE WITH DCC REPRESENTATIVE

KEYNOTES:

1. NEW WORK BY OTHERS, SHOWN IN RED. CONFIRM LOCATIONS ON SITE/COORDINATE WITH DCC REPRESENTATIVE WHERE NECESSARY.
2. PROVIDE PROTECTION TO EXISTING BOOKSHELVES AND THEIR CONTENTS TO PREVENT EXPOSURE TO DUST, DEBRIS, AND OTHER DAMAGE DURING THE WORK. COORDINATE WITH DCC REPRESENTATIVE IF BOOKSHELVES OR THEIR CONTENTS MUST BE MOVED TO CARRY OUT THE WORK.
3. PROVIDE NEW CUT OPENING IN EXISTING CEILING AND FLOOR SLAB TO ACCOMMODATE INSTALLATION OF NEW MECHANICAL PIPES. REFER TO MECHANICAL. COORDINATE LOCATIONS OF ALL PENETRATIONS TO AVOID STRUCTURAL BEAMS.
4. DEMOLISH EXISTING FHC. REFER TO MECHANICAL.
5. DEMOLISH EXISTING DOOR FRAME.
6. REMOVE EXISTING WALL MOUNTED DRINKING FOUNTAIN AND STORE FOR REINSTALLATION. REFER TO MECHANICAL.
7. PROVIDE NEW CUT OPENING IN EXISTING FLOOR SLAB TO ACCOMMODATE INSTALLATION OF NEW MECHANICAL PIPES. REFER TO MECHANICAL. COORDINATE LOCATIONS OF ALL PENETRATIONS TO AVOID STRUCTURAL BEAMS.
16. DEMOLISH EXISTING DUMBWAITER COMPONENTS. PREPARE SHAFT FOR NEW MECHANICAL SYSTEMS DISTRIBUTION.

HATCH LEGEND:

- EXISTING METAL PANEL SUSPENDED CEILING TO REMAIN
- EXISTING ACT CEILING TO REMAIN
- EXISTING GYPSUM CEILING/BULKHEAD TO REMAIN
- EXISTING BOOKSHELVES TO REMAIN
- EXISTING BUILDING STRUCTURE TO REMAIN
- EXISTING METAL PANEL SUSPENDED CEILING TO BE REMOVED AND PRESERVED FOR REINSTATEMENT
- EXISTING ACT CEILING PANELS & T-BAR TO BE REMOVED AND PRESERVED FOR REINSTATEMENT
- EXISTING GYPSUM CEILING/BULKHEAD TO BE REMOVED AND REPLACED
- NEW GYPSUM CEILING/BULKHEAD

SYMBOL LEGEND:

- EXISTING LIGHT FIXTURE TO REMAIN - TYP.
- LIGHT FIXTURE TO BE TEMPORARILY REMOVED DURING CONSTRUCTION AND REINSTATED. REMOVE AS NECESSARY FOR INSTALLATION OF NEW MECHANICAL PIPES.
- EXISTING MECH. HVAC DIFFUSER TO REMAIN - TYP.
- FE.* FIRE EXTINGUISHER - REFER TO MECH.
- UPRIGHT SPRINKLER HEAD - REFER TO MECH.
- RECESSED SPRINKLER HEAD - REFER TO MECH.
- SURFACE MOUNTED SPRINKLER HEAD - REFER TO MECH.

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ONTARIO ASSOCIATION OF ARCHITECTS
ANDREW SCOTT DURBIN
LICENCE 8893
2025.03.30
RIO LIFE SAFETY UPGRADES

MASSEY LIBRARY

TRUE NORTH / PROJECT NORTH

NO.	DATE	REVISION	APPR.
4	2026-01-16	ISSUED FOR TENDER	D.S.
3	2025-09-15	ISSUED FOR 100% REVIEW	D.S.
2.	2025-04-30	ISSUED FOR 99% REVIEW	D.S.
1.	2024-12-20	ISSUED FOR 60% REVIEW	D.S.

SCALE | ÉCHELLE 1:100 (2000 0 2000 4000 6000mm)

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
LIFE SAFETY UPGRADE

TRADE | MÉTIER	DATE
ARCHITECTURAL	2026-01-16

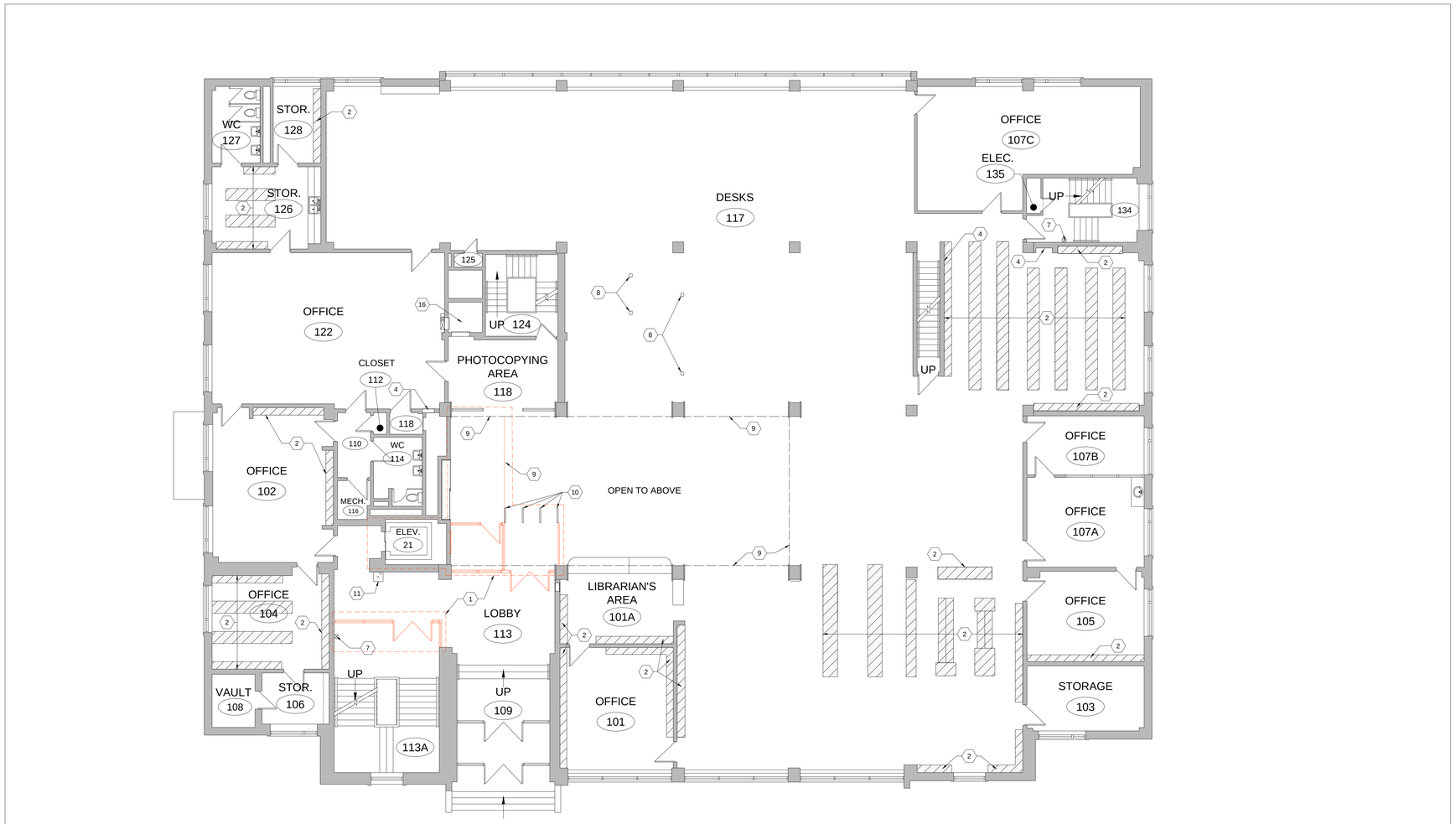
SUBJECT | SUJET
FLOOR PLAN - LEVEL 0
EXISTING & DEMO LAYOUT

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: NK		DES O | AGENT CONC
DRAWN | DESSINÉ: CS		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: DS		DES MGR | GEST CONC
COORDINATION: NK		FIRE | INCENDIE

WBS NO. | NO. OTP	PF NO. | NO. DP
KN229981	PF 500613544

DWG. NO. | NO. DESSIN: K-K74-7701/32-301

Canada



1
302

FLOOR PLAN - LEVEL 1
EXISTING & DEMO LAYOUT

SCALE: 1:100

GENERAL NOTES:

- ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE.
- SITE CONFIRM ALL EXISTING CONDITIONS AND VERIFY ALL DIMENSIONS BEFORE START OF WORK.
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- PROVIDE NEW CUT OPENINGS IN WALLS AND FLOORS AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS. LOCATE OPENINGS TO AVOID EXISTING STRUCTURAL ELEMENTS. SEAL ALL NEW PENETRATIONS IN EXISTING WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR AFTER INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS WHERE REQUIRED. REFER TO LIFE SAFETY, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECS.
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KEYNOTES:

1. NEW WORK BY OTHERS, SHOWN IN RED. CONFIRM LOCATIONS ON SITE/COORDINATE WITH DCC REPRESENTATIVE WHERE NECESSARY.
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4. DEMOLISH EXISTING FHC. REFER TO MECHANICAL.
7. PROVIDE NEW CUT OPENING IN EXISTING FLOOR SLAB TO ACCOMMODATE INSTALLATION OF NEW MECHANICAL PIPES. REFER TO MECHANICAL. COORDINATE LOCATIONS OF ALL PENETRATIONS TO AVOID STRUCTURAL BEAMS.
8. EXISTING VERTICAL POWER SUPPLIES TO REMAIN.
9. LINE OF EXISTING OPENING IN FLOOR ABOVE.
10. EXISTING LIBRARY SECURITY TO REMAIN.
11. EXISTING WALL MOUNTED DRINKING FOUNTAIN TO REMAIN.
16. DEMOLISH EXISTING DUMBWAITER COMPONENTS, PREPARE SHAFT FOR NEW MECHANICAL SYSTEMS DISTRIBUTION.

HATCH LEGEND:

- EXISTING METAL PANEL SUSPENDED CEILING TO REMAIN
- EXISTING ACT CEILING TO REMAIN
- EXISTING GYPSUM CEILING/BULKHEAD TO REMAN
- EXISTING BOOKSHELVES TO REMAIN
- EXISTING BUILDING STRUCTURE TO REMAIN
- EXISTING METAL PANEL SUSPENDED CEILING TO BE REMOVED AND PRESERVED FOR REINSTATEMENT
- EXISTING ACT CEILING PANELS & T-BAR TO BE REMOVED AND PRESERVED FOR REINSTATEMENT
- EXISTING GYPSUM CEILING/BULKHEAD TO BE REMOVED AND REPLACED
- NEW GYPSUM CEILING/BULKHEAD

SYMBOL LEGEND:

- EXISTING LIGHT FIXTURE TO REMAIN - TYP.
- LIGHT FIXTURE TO BE TEMPORARILY REMOVED DURING CONSTRUCTION AND REINSTATED. REMOVE AS NECESSARY FOR INSTALLATION OF NEW MECHANICAL PIPES.
- EXISTING MECH. HVAC DIFFUSER TO REMAIN - TYP.
- FE-# FIRE EXTINGUISHER - REFER TO MECH.
- UPRIGHT SPRINKLER HEAD - REFER TO MECH.
- RECESSED SPRINKLER HEAD - REFER TO MECH.
- SURFACE MOUNTED SPRINKLER HEAD - REFER TO MECH.

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ONTARIO ASSOCIATION OF ARCHITECTS
AUSTIN SCOTT DURBIN
LICENCE
8893
2025.03.30
R13 LIFE SAFETY UPGRADES

MASSEY LIBRARY

TRUE NORTH / PROJECT NORTH

NO.	DATE	REVISION	APPR.
4.	2026-01-16	ISSUED FOR TENDER	D.S.
3.	2025-09-15	ISSUED FOR 100% REVIEW	D.S.
2.	2025-04-30	ISSUED FOR 99% REVIEW	D.S.
1.	2024-12-20	ISSUED FOR 60% REVIEW	D.S.

SCALE | ÉCHELLE 1:100 (2000 0 2000 4000 6000mm)

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
LIFE SAFETY UPGRADE

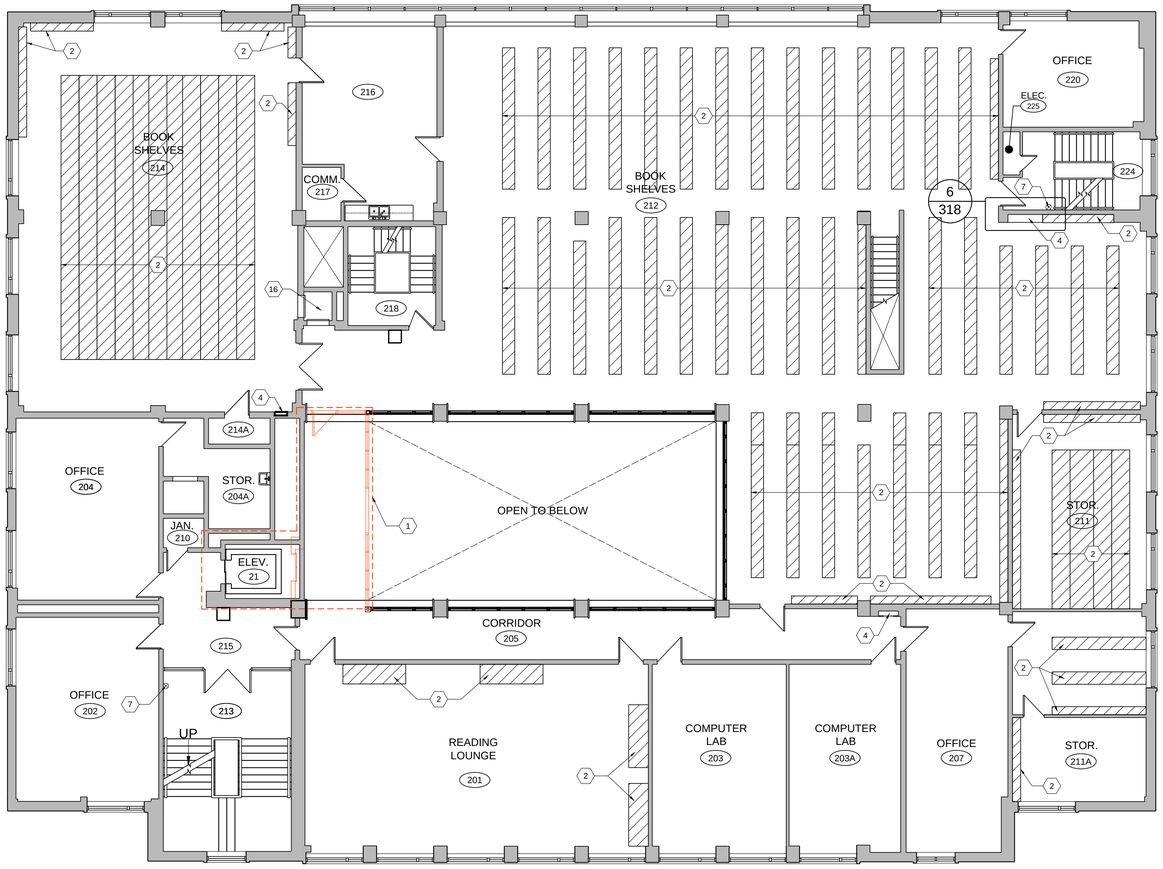
TRADE | MÉTIER: ARCHITECTURAL
DATE: 2026-01-16

SUBJECT | SUJET
FLOOR PLAN - LEVEL 1
EXISTING & DEMO LAYOUT

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: NK		DES O | AGENT CONC
DRAWN | DESSINÉ: CS		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: DS		DES MGR | GEST CONC
COORDINATION: NK		FIRE | INCENDIE

WBS NO. | NO. OTP: KN229981
PF NO. | NO. DP: PF 500613544
DWG. NO. | NO. DESSIN: K-K74-7701/32-302

Canada



1
303

FLOOR PLAN - LEVEL 2
EXISTING & DEMO LAYOUT

SCALE: 1:100

GENERAL NOTES:

- ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE.
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KEYNOTES:

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HATCH LEGEND:

- EXISTING METAL PANEL SUSPENDED CEILING TO REMAIN
- EXISTING ACT CEILING TO REMAIN
- EXISTING GYPSUM CEILING/BULKHEAD TO REMAIN
- EXISTING BOOKSHELVES TO REMAIN
- EXISTING BUILDING STRUCTURE TO REMAIN
- EXISTING ACT CEILING PANELS & T-BAR TO BE REMOVED AND PRESERVED FOR REINSTATEMENT
- EXISTING METAL PANEL SUSPENDED CEILING TO BE REMOVED AND PRESERVED FOR REINSTATEMENT / EXISTING GYPSUM CEILING/BULKHEAD TO BE REMOVED AND REPLACED
- NEW GYPSUM CEILING/BULKHEAD

SYMBOL LEGEND:

- EXISTING LIGHT FIXTURE TO REMAIN - TYP.
- LIGHT FIXTURE TO BE TEMPORARILY REMOVED DURING CONSTRUCTION AND REINSTATED. REMOVE AS NECESSARY FOR INSTALLATION OF NEW MECHANICAL PIPES.
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- FE-* FIRE EXTINGUISHER - REFER TO MECH.
- UPRIGHT SPRINKLER HEAD - REFER TO MECH.
- RECESSED SPRINKLER HEAD - REFER TO MECH.
- SURFACE MOUNTED SPRINKLER HEAD - REFER TO MECH.

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2026-03-30
R13 LIFE SAFETY UPGRADES

MASSEY LIBRARY

TRUE NORTH / PROJECT NORTH

NO.	DATE	REVISION	APPR.
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2.	2025-04-30	ISSUED FOR 99% REVIEW	D.S.
1.	2024-12-20	ISSUED FOR 60% REVIEW	D.S.

SCALE | ÉCHELLE 1:100 (2000 0 2000 4000 6000mm)

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
LIFE SAFETY UPGRADE

TRADE | MÉTIER	DATE
ARCHITECTURAL	2026-01-16

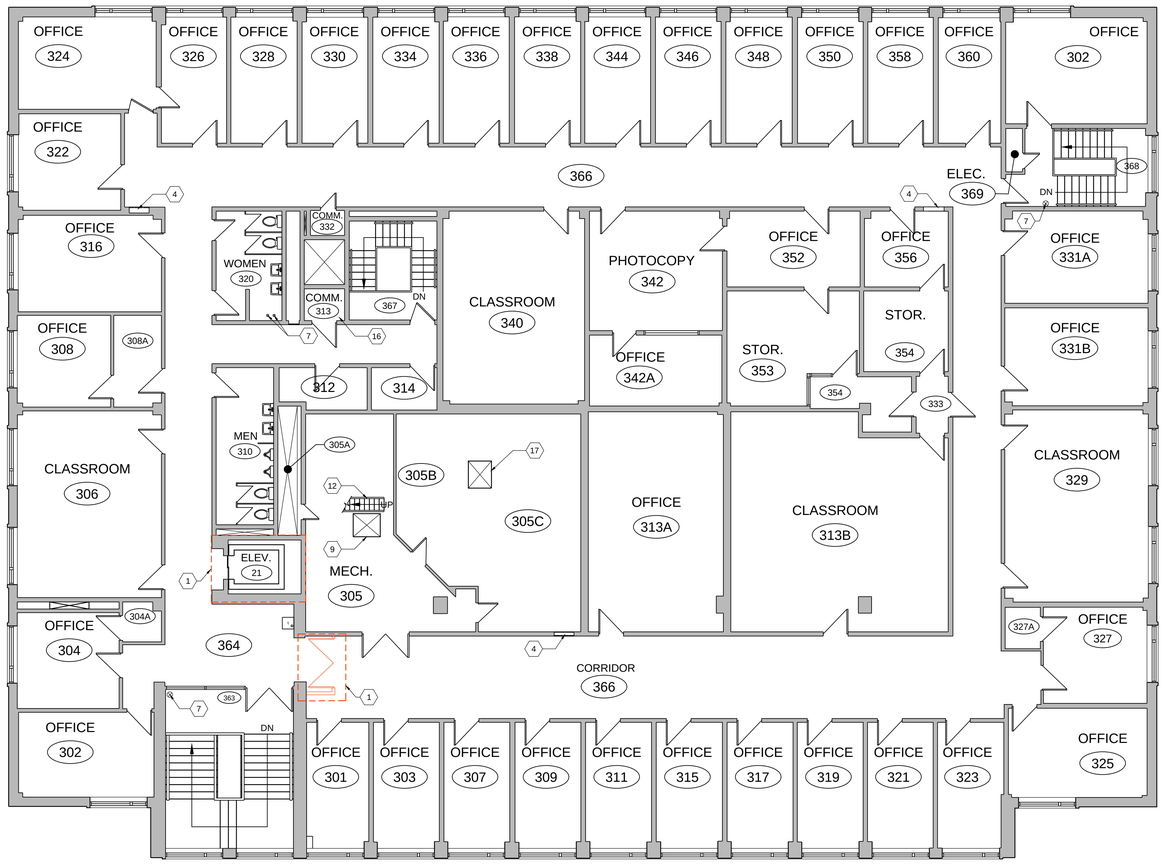
SUBJECT | SUJET
FLOOR PLAN - LEVEL 2
EXISTING & DEMO LAYOUT

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: NK		DES O | AGENT CONC
DRAWN | DESSINÉ: CS		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: DS		DES MGR | GEST CONC
COORDINATION: NK		FIRE | INCENDIE

WBS NO. | NO. OTP	PF NO. | NO. DP
KN229981	PF 500613544

DWG. NO. | NO. DESSIN: K-K74-7701/32-303

Canada



1
304
FLOOR PLAN - LEVEL 3
EXISTING & DEMO LAYOUT
SCALE: 1:100

GENERAL NOTES:

- ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE.
- SITE CONFIRM ALL EXISTING CONDITIONS AND VERIFY ALL DIMENSIONS BEFORE START OF WORK.
- REFER TO MECHANICAL AND ELECTRICAL FOR EXTENT OF REMOVALS AND UPGRADES.
- CAREFULLY REMOVE AND REINSTATE EXISTING CEILINGS AS REQUIRED FOR SPRINKLER INSTALLATION. FOR ENTIRE NEW WORK, ASSUME ~1620 sq.m. ACT REMOVAL, ~245 sq.m. GYPSUM BOARD CEILING REMOVAL, AND ~50 sq.m. METAL PANEL SUSPENDED CEILING REMOVAL. PATCH AND REFINISH GYPSUM BOARD CEILINGS TO MATCH ORIGINAL PAINT COLOUR, AS REQUIRED WHERE DAMAGED. PAINT COLOUR TO BE SELECTED BY DCC REPRESENTATIVE. FINAL SPRINKLER LAYOUT TO BE DETERMINED BY SPRINKLER CONTRACTOR. CONFIRM ON-SITE. NOTIFY DCC REPRESENTATIVE OF ANY DISCREPANCIES.
- CAREFULLY REMOVE AND REINSTATE EXISTING LIGHTING FIXTURES AS REQUIRED FOR SPRINKLER INSTALLATION. ASSUME ~500 LIGHT FIXTURES TO BE REMOVED AND REINSTATED.
- PROVIDE NEW CUT OPENINGS IN WALLS AND FLOORS AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS. LOCATE OPENINGS TO AVOID EXISTING STRUCTURAL ELEMENTS. SEAL ALL NEW PENETRATIONS IN EXISTING WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR AFTER INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS WHERE REQUIRED. REFER TO LIFE SAFETY, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECS.
- SEAL ALL EXISTING PENETRATIONS IN WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR, WHERE REQUIRED.
- EXISTING BOOKSHELVES TO REMAIN. DO NOT MOVE OR DISTURB CONTENTS. PROVIDE PROTECTION FOR BOOKSHELVES AND THEIR CONTENTS DURING DURATION OF CONSTRUCTION. COORDINATE WITH DCC REPRESENTATIVE

KEYNOTES:

1. NEW WORK BY OTHERS, SHOWN IN RED. CONFIRM LOCATIONS ON SITE/COORDINATE WITH DCC REPRESENTATIVE WHERE NECESSARY.
4. DEMOLISH EXISTING FHC. REFER TO MECHANICAL.
7. PROVIDE NEW CUT OPENING IN EXISTING FLOOR SLAB TO ACCOMMODATE INSTALLATION OF NEW MECHANICAL PIPES. REFER TO MECHANICAL. COORDINATE LOCATIONS OF ALL PENETRATIONS TO AVOID STRUCTURAL BEAMS.
9. LINE OF EXISTING OPENING IN FLOOR ABOVE.
11. EXISTING WALL MOUNTED DRINKING FOUNTAIN TO REMAIN.
12. LADDER TO MECHANICAL PENTHOUSE.
16. DEMOLISH EXISTING DUMBWAITER COMPONENTS, PREPARE SHAFT FOR NEW MECHANICAL SYSTEMS DISTRIBUTION.
17. OPEN TO BELOW - NEW FIRE DAMPENER, REFER TO MECHANICAL.

HATCH LEGEND:

- EXISTING METAL PANEL SUSPENDED CEILING TO REMAIN
- EXISTING ACT CEILING TO REMAIN
- EXISTING GYPSUM CEILING/BULKHEAD TO REMAIN
- EXISTING BOOKSHELVES TO REMAIN
- EXISTING BUILDING STRUCTURE TO REMAIN
- EXISTING METAL PANEL SUSPENDED CEILING TO BE REMOVED AND PRESERVED FOR REINSTATEMENT
- EXISTING ACT CEILING PANELS & T-BAR TO BE REMOVED AND PRESERVED FOR REINSTATEMENT
- EXISTING GYPSUM CEILING/BULKHEAD TO BE REMOVED AND REPLACED
- NEW GYPSUM CEILING/BULKHEAD

SYMBOL LEGEND:

- EXISTING LIGHT FIXTURE TO REMAIN - TYP.
- LIGHT FIXTURE TO BE TEMPORARILY REMOVED DURING CONSTRUCTION AND REINSTATED. REMOVE AS NECESSARY FOR INSTALLATION OF NEW MECHANICAL PIPES.
- EXISTING MECH. HVAC DIFFUSER TO REMAIN - TYP.
- FE-* FIRE EXTINGUISHER - REFER TO MECH.
- UPRIGHT SPRINKLER HEAD - REFER TO MECH.
- RECESSED SPRINKLER HEAD - REFER TO MECH.
- SURFACE MOUNTED SPRINKLER HEAD - REFER TO MECH.

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LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ

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ONTARIO ASSOCIATION OF ARCHITECTS
AUTHORIZED
LICENCE
8353

2025.03.30
R13 LIFE SAFETY UPGRADES

MASSEY LIBRARY

TRUE NORTH
PROJECT NORTH

NO.	DATE	REVISION	APPR.
4	2026-01-16	ISSUED FOR TENDER	D.S.
3.	2025-09-15	ISSUED FOR 100% REVIEW	D.S.
2.	2025-04-30	ISSUED FOR 99% REVIEW	D.S.
1.	2024-12-20	ISSUED FOR 60% REVIEW	D.S.

SCALE | ÉCHELLE
1:100
2000 0 2000 4000 6000mm

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
LIFE SAFETY UPGRADE

TRADE | MÉTIER	DATE
ARCHITECTURAL	2026-01-16

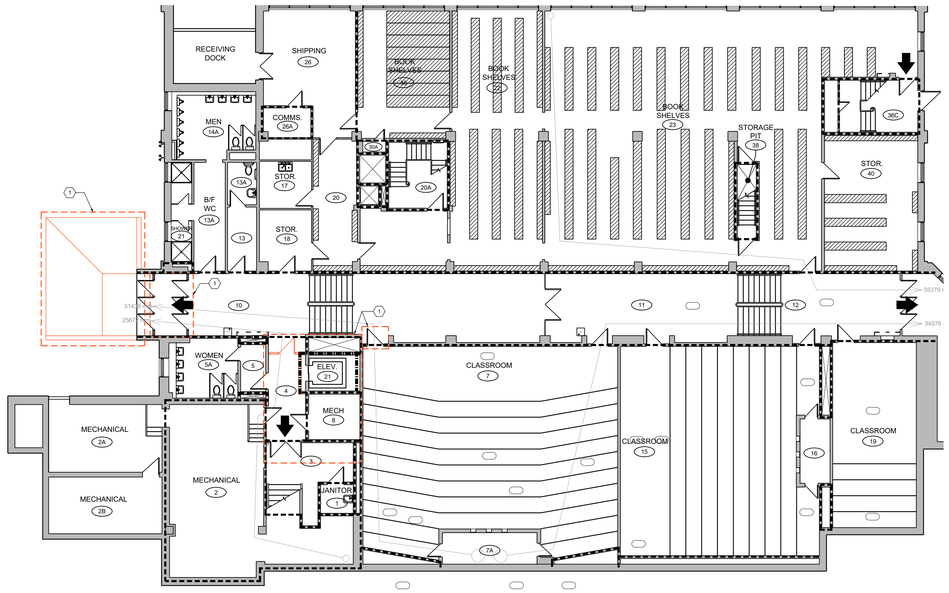
SUBJECT | SUJET
FLOOR PLAN - LEVEL 3
EXISTING & DEMO LAYOUT

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: NK		DES O | AGENT CONC
DRAWN | DESSINÉ: CS		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: DS		DES MGR | GEST CONC
COORDINATION: NK		FIRE | INCENDIE

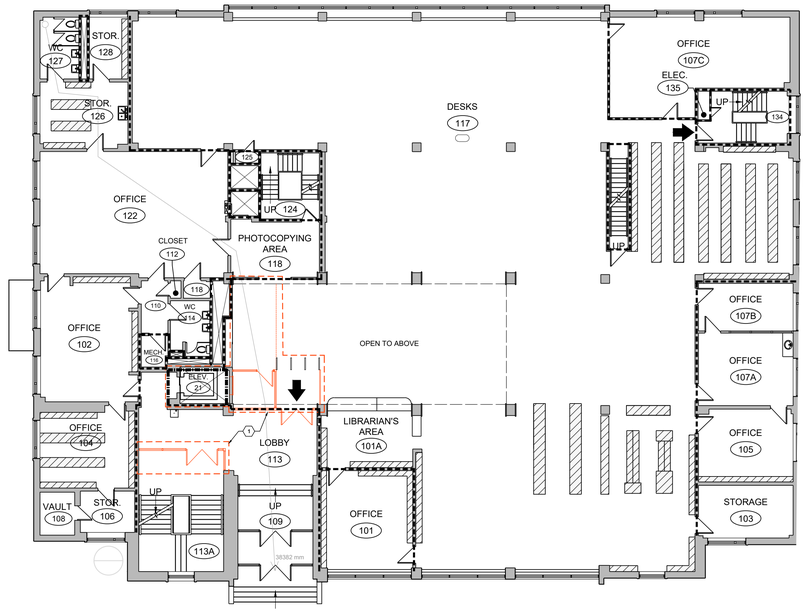
WBS NO. | NO. OTP	PF NO. | NO. DP
KN229981	PF 500613544

DWG. NO. | NO. DESSIN: K-K74-7701/32-304

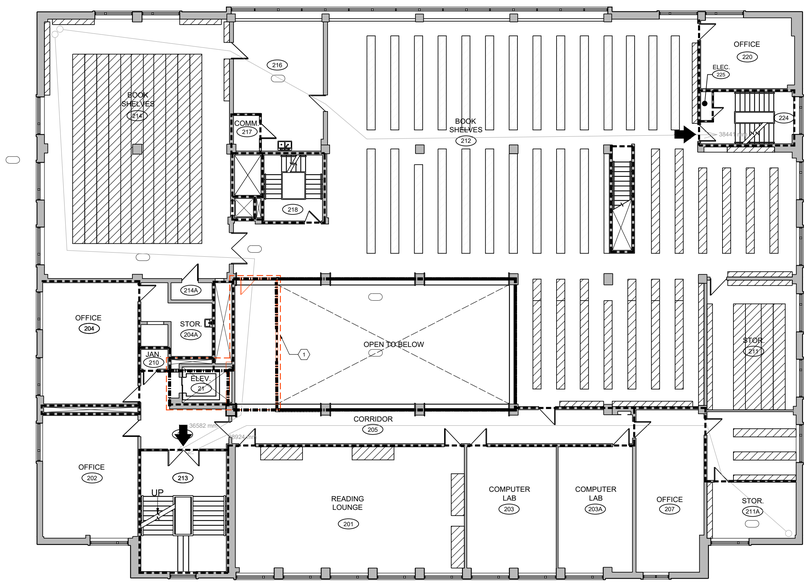
Canada



1/305 FLOOR PLAN - LEVEL 0
LIFE SAFETY
SCALE: 1:150



2/305 FLOOR PLAN - LEVEL 1
LIFE SAFETY
SCALE: 1:150



3/305 FLOOR PLAN - LEVEL 2
LIFE SAFETY
SCALE: 1:150



4/305 FLOOR PLAN - LEVEL 3
LIFE SAFETY
SCALE: 1:150

GENERAL NOTES:

- ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE.
- SITE CONFIRM ALL EXISTING CONDITIONS AND VERIFY ALL DIMENSIONS BEFORE START OF WORK.
- PROVIDE NEW CUT OPENINGS IN WALLS AND FLOORS AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS. LOCATE OPENINGS TO AVOID EXISTING STRUCTURAL ELEMENTS. SEAL ALL NEW PENETRATIONS IN EXISTING WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR AFTER INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS WHERE REQUIRED. REFER TO LIFE SAFETY, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECS.
- SEAL ALL EXISTING PENETRATIONS IN WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR. WHERE REQUIRED.
- THESE FLOOR PLANS ARE NOT INTENDED TO VALIDATE THE EXISTING LOCATIONS OF FIRE RATINGS ON-SITE.
- LIFE SAFETY REQUIREMENTS BASED ON PROJECT REQUIREMENTS AND AVAILABLE INFORMATION PROVIDED FOR CONCURRENT PROJECTS BY OTHERS, ON-GOING PROJECTS, OUTSIDE THE SCOPE OF THIS PROJECT, ALSO IMPACT THE LIFE SAFETY APPROACH AND REQUIREMENTS OF THIS BUILDING.LIFE SAFETY DRAWINGS TO BE READ IN CONJUNCTION WITH "ELEVATOR REPLACEMENT AND BARRIER-FREE UPGRADES PROJECT".

KEYNOTES:

1. NEW WORK BY OTHERS, SHOWN IN RED. CONFIRM LOCATIONS ON SITE/COORDINATE WITH DCC REPRESENTATIVE WHERE NECESSARY.

LIFE SAFETY LEGEND:

- 0-HOUR FIRE SEPARATION
- 1-HOUR FIRE SEPARATION
- 2-HOUR FIRE SEPARATION
- ACCESS TO EXIT
- TRAVEL DISTANCE
- CEILING HEIGHT BOUNDARY

Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
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ONTARIO ASSOCIATION OF ARCHITECTS
2025-03-30
R13 LIFE SAFETY UPGRADES

MASSEY LIBRARY

TRUE NORTH / PROJECT NORTH

NO.	DATE	REVISION	APPR.
4.	2026-01-16	ISSUED FOR TENDER	D.S.
3.	2025-09-15	ISSUED FOR 100% REVIEW	D.S.
2.	2025-04-30	ISSUED FOR 99% REVIEW	D.S.
1.	2024-12-20	ISSUED FOR 60% REVIEW	D.S.

SCALE | ÉCHELLE 1:150

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
LIFE SAFETY UPGRADE

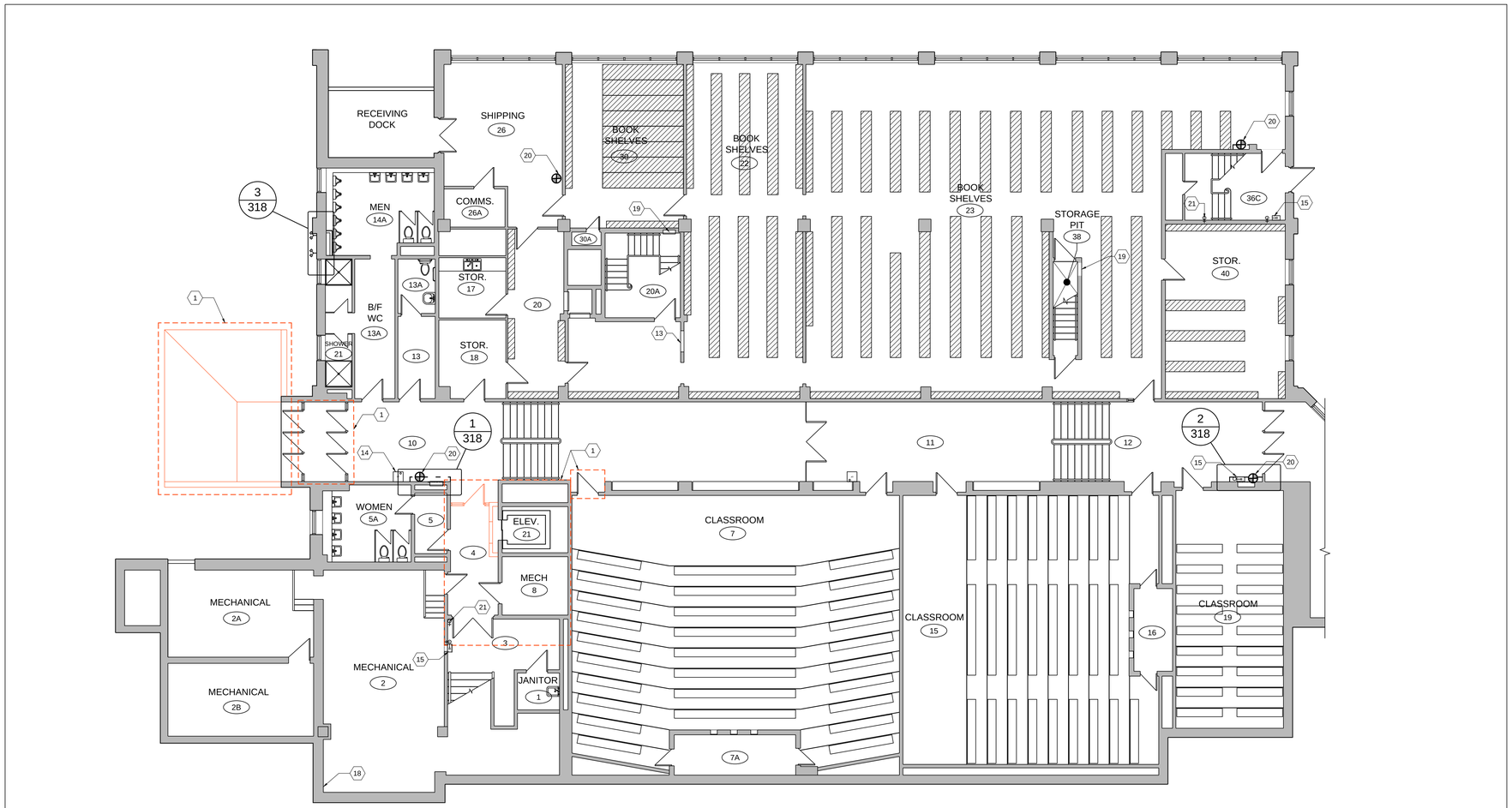
TRADE | MÉTIER	DATE
ARCHITECTURAL	2026-01-16

SUBJECT | SUJET
LEVELS 0-3 PLANS
LIFE SAFETY LAYOUT

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: NK		DES O | AGENT CONC
DRAWN | DESSINÉ: CS		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: DS		DES MGR | GEST CONC
COORDINATION: NK		FIRE | INCENDIE

WBS NO. | NO. OTP: KN229981
PF NO. | NO. DP: PF 500613544
DWG. NO. | NO. DESSIN: K-K74-7701/32-305

Canada



1
306
FLOOR PLAN - LEVEL 0
NEW WORK LAYOUT
SCALE: 1:100

GENERAL NOTES:

- ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE.
- SITE CONFIRM ALL EXISTING CONDITIONS AND VERIFY ALL DIMENSIONS BEFORE START OF WORK.
- REFER TO MECHANICAL AND ELECTRICAL FOR EXTENT OF REMOVALS AND UPGRADES.
- CAREFULLY REMOVE AND REINSTATE EXISTING CEILINGS AS REQUIRED FOR SPRINKLER INSTALLATION. FOR ENTIRE NEW WORK, ASSUME ~1620 sq.m. ACT REMOVAL, ~245 sq.m. GYPSUM BOARD CEILING REMOVAL, AND ~50 sq.m. METAL PANEL SUSPENDED CEILING REMOVAL. PATCH AND REFINISH GYPSUM BOARD CEILINGS TO MATCH ORIGINAL PAINT COLOUR, AS REQUIRED WHERE DAMAGED. PAINT COLOUR TO BE SELECTED BY DCC REPRESENTATIVE. FINAL SPRINKLER LAYOUT TO BE DETERMINED BY SPRINKLER CONTRACTOR. CONFIRM ON-SITE. NOTIFY DCC REPRESENTATIVE OF ANY DISCREPANCIES.
- CAREFULLY REMOVE AND REINSTATE EXISTING LIGHTING FIXTURES AS REQUIRED FOR SPRINKLER INSTALLATION. ASSUME ~500 LIGHT FIXTURES TO BE REMOVED AND REINSTATED.
- PROVIDE NEW CUT OPENINGS IN WALLS AND FLOORS AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS. LOCATE OPENINGS TO AVOID EXISTING STRUCTURAL ELEMENTS. SEAL ALL NEW PENETRATIONS IN EXISTING WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR AFTER INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS WHERE REQUIRED. REFER TO LIFE SAFETY, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECS.
- SEAL ALL EXISTING PENETRATIONS IN WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR WHERE REQUIRED.
- EXISTING BOOKSHELVES TO REMAIN. DO NOT MOVE OR DISTURB CONTENTS. PROVIDE PROTECTION FOR BOOKSHELVES AND THEIR CONTENTS DURING DURATION OF CONSTRUCTION. COORDINATE WITH DCC REPRESENTATIVE
- APPLY CONTINUOUS CAULKING TO NEW PENETRATION TO EXTERIOR AFTER INSTALLING NEW MECHANICAL PIPING.

KEYNOTES:

1. NEW WORK BY OTHERS, SHOWN IN RED. CONFIRM LOCATIONS ON SITE/COORDINATE WITH DCC REPRESENTATIVE WHERE NECESSARY.
13. INFILL DOOR OPENING WITH 92mm STEEL STUDS @ 400mm O.C., AND 16mm GYPSUM WALL BOARD ON EITHER SIDE. ALIGN GYPSUM BOARD TO FACE WALL. PROVIDE FURRING TO SUIT. PAINT GYPSUM BOARD TO MATCH EXISTING ADJACENT WALLS, COLOUR TO BE SELECTED BY DCC REPRESENTATIVE.
14. REINSTALL EXISTING WALL MOUNTED DRINKING FOUNTAIN. REFER TO MECHANICAL.
15. NEW FIRE VALVE CABINET. REFER TO MECHANICAL.
18. NEW WORK FOR WATER MAIN LOCATION. REFER TO MECHAINCAL.
19. INFILL WALL AT DEMOLISHED FIRE HOSE CABINET LOCATION TO MATCH EXISTING AND MAKE GOOD.
20. NEW FIRE EXTINGUISHER. REFER TO MECHANICAL.
21. NEW MECHANICAL PIPES – REFER TO MECHANICAL DRAWINGS. ENSURE TO MAINTAIN EXISTING FIRE SEPARATION.

HATCH LEGEND:

- EXISTING METAL PANEL SUSPENDED CEILING TO REMAIN
- EXISTING ACT CEILING TO REMAIN
- EXISTING GYPSUM CEILING/BULKHEAD TO REMAIN
- EXISTING BOOKSHELVES TO REMAIN
- EXISTING BUILDING STRUCTURE TO REMAIN
- EXISTING METAL PANEL SUSPENDED CEILING TO BE REMOVED AND PRESERVED FOR REINSTATEMENT
- EXISTING ACT CEILING PANELS & T-BAR TO BE REMOVED AND PRESERVED FOR REINSTATEMENT
- EXISTING GYPSUM CEILING/BULKHEAD TO BE REMOVED AND REPLACED
- NEW GYPSUM CEILING/BULKHEAD

SYMBOL LEGEND:

- EXISTING LIGHT FIXTURE TO REMAIN - TYP.
- LIGHT FIXTURE TO BE TEMPORARILY REMOVED DURING CONSTRUCTION AND REINSTATED. REMOVE AS NECESSARY FOR INSTALLATION OF NEW MECHANICAL PIPES.
- EXISTING MECH. HVAC DIFFUSER TO REMAIN - TYP.
- FE-# FIRE EXTINGUISHER - REFER TO MECH.
- UPRIGHT SPRINKLER HEAD - REFER TO MECH.
- RECESSED SPRINKLER HEAD - REFER TO MECH.
- SURFACE MOUNTED SPRINKLER HEAD - REFER TO MECH.

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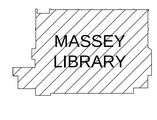
LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
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ONTARIO ASSOCIATION OF ARCHITECTS
QUALIFICATION
MARTIN SCOTT DURBIN
LICENCE
8353

2025.03.30
R13 LIFE SAFETY UPGRADES



TRUE NORTH
PROJECT NORTH

NO.	DATE	REVISION	APPR.
4	2026-01-16	ISSUED FOR TENDER	D.S.
3.	2025-09-15	ISSUED FOR 100% REVIEW	D.S.
2.	2025-04-30	ISSUED FOR 99% REVIEW	D.S.
1.	2024-12-20	ISSUED FOR 60% REVIEW	D.S.

SCALE | ÉCHELLE
1:100
2000 0 2000 4000 6000mm

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
LIFE SAFETY UPGRADE

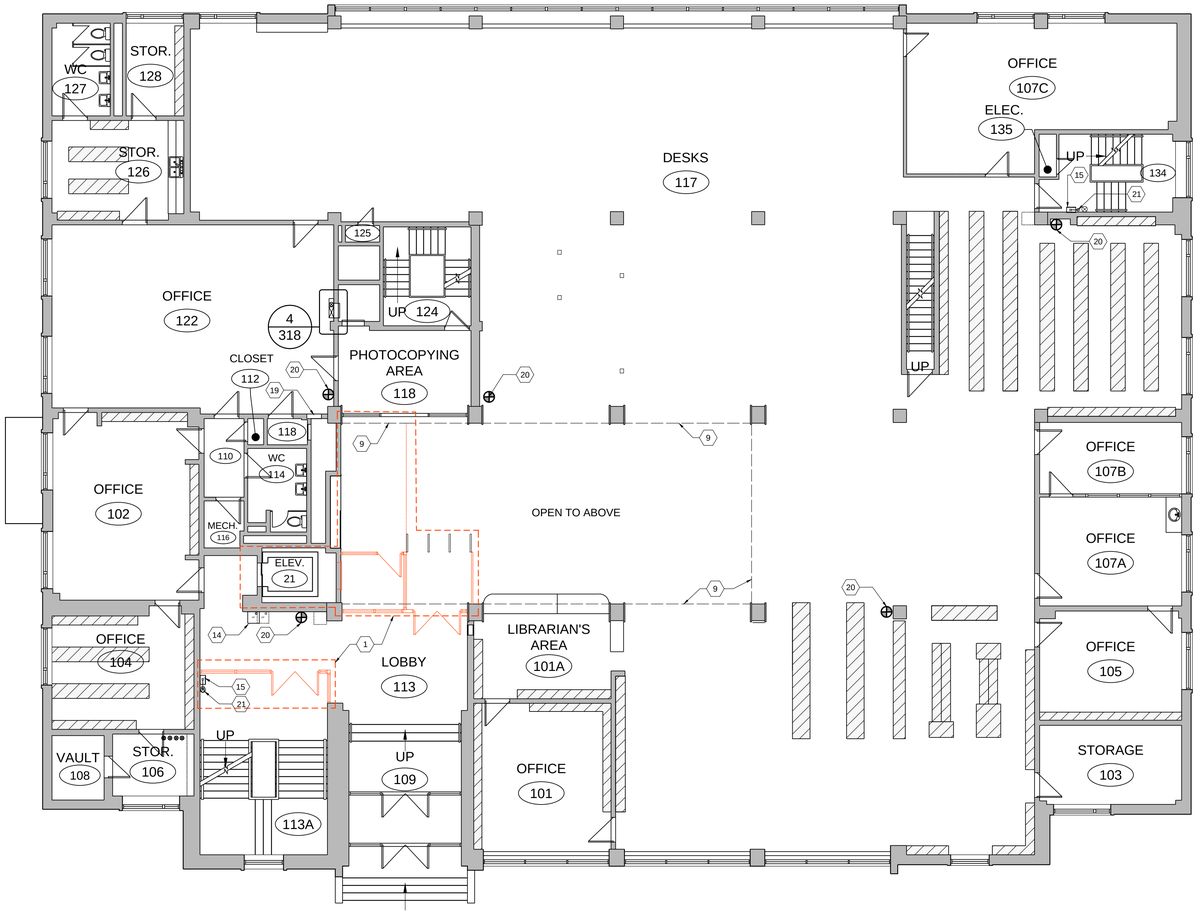
TRADE | MÉTIER: ARCHITECTURAL
DATE: 2026-01-16

SUBJECT | SUJET
FLOOR PLAN - LEVEL 0
NEW WORK LAYOUT

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: NK		DES O | AGENT CONC
DRAWN | DESSINÉ: CS		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: DS		DES MGR | GEST CONC
COORDINATION: NK		FIRE | INCENDIE

WBS NO. | NO. OTP: KN229981
PF NO. | NO. DP: PF 500613544
DWG. NO. | NO. DESSIN: K-K74-7701/32-306

Canada



1
307

FLOOR PLAN - LEVEL 1
NEW WORK LAYOUT

SCALE: 1:100

GENERAL NOTES:

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- CAREFULLY REMOVE AND REINSTATE EXISTING LIGHTING FIXTURES AS REQUIRED FOR SPRINKLER INSTALLATION. ASSUME ~500 LIGHT FIXTURES TO BE REMOVED AND REINSTATED.
- PROVIDE NEW CUT OPENINGS IN WALLS AND FLOORS AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS. LOCATE OPENINGS TO AVOID EXISTING STRUCTURAL ELEMENTS. SEAL ALL NEW PENETRATIONS IN EXISTING WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR AFTER INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS WHERE REQUIRED. REFER TO LIFE SAFETY, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECS.
- SEAL ALL EXISTING PENETRATIONS IN WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR. WHERE REQUIRED.
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KEYNOTES:

1. NEW WORK BY OTHERS, SHOWN IN RED. CONFIRM LOCATIONS ON SITE/COORDINATE WITH DCC REPRESENTATIVE WHERE NECESSARY.
9. LINE OF EXISTING OPENING IN FLOOR ABOVE.
14. REINSTALL EXISTING WALL MOUNTED DRINKING FOUNTAIN. REFER TO MECHANICAL.
15. NEW FIRE HOSE CABINET. REFER TO MECHANICAL.
19. INFILL WALL AT DEMOLISHED FIRE HOSE CABINET LOCATION TO MATCH EXISTING AND MAKE GOOD.
20. NEW FIRE EXTINGUISHER. REFER TO MECHANICAL.
21. NEW MECHANICAL PIPES – REFER TO MECHANICAL DRAWINGS. ENSURE TO MAINTAIN EXISTING FIRE SEPARATION.

HATCH LEGEND:

- EXISTING METAL PANEL SUSPENDED CEILING TO REMAIN
- EXISTING ACT CEILING TO REMAIN
- EXISTING GYPSUM CEILING/BULKHEAD TO REMAIN
- EXISTING BOOKSHELVES TO REMAIN
- EXISTING BUILDING STRUCTURE TO REMAIN
- EXISTING METAL PANEL SUSPENDED CEILING TO BE REMOVED AND PRESERVED FOR REINSTATEMENT
- EXISTING ACT CEILING PANELS & T-BAR TO BE REMOVED AND PRESERVED FOR REINSTATEMENT
- EXISTING GYPSUM CEILING/BULKHEAD TO BE REMOVED AND REPLACED
- NEW GYPSUM CEILING/BULKHEAD

SYMBOL LEGEND:

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- LIGHT FIXTURE TO BE TEMPORARILY REMOVED DURING CONSTRUCTION AND REINSTATED. REMOVE AS NECESSARY FOR INSTALLATION OF NEW MECHANICAL PIPES.
- EXISTING MECH. HVAC DIFFUSER TO REMAIN - TYP.
- FE-# FIRE EXTINGUISHER - REFER TO MECH.
- UPRIGHT SPRINKLER HEAD - REFER TO MECH.
- RECESSED SPRINKLER HEAD - REFER TO MECH.
- SURFACE MOUNTED SPRINKLER HEAD - REFER TO MECH.

Government of Canada / Gouvernement du Canada

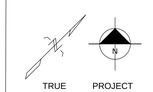
LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
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ONTARIO ASSOCIATION OF ARCHITECTS
KRISTOFF DURBIN
LICENCE
8884
2026.03.30
RIB LIFE SAFETY UPGRADES





NO.	DATE	REVISION	APPR.
4	2026-01-16	ISSUED FOR TENDER	D.S.
3.	2025-09-15	ISSUED FOR 100% REVIEW	D.S.
2.	2025-04-30	ISSUED FOR 99% REVIEW	D.S.
1.	2024-12-20	ISSUED FOR 60% REVIEW	D.S.

SCALE | ÉCHELLE 1:100

2000 0 2000 4000 6000mm

LOCATION | EMPLACEMENT

BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET

MASSEY LIBRARY
LIFE SAFETY UPGRADE

TRADE | MÉTIER	DATE
ARCHITECTURAL	2026-01-16

SUBJECT | SUJET

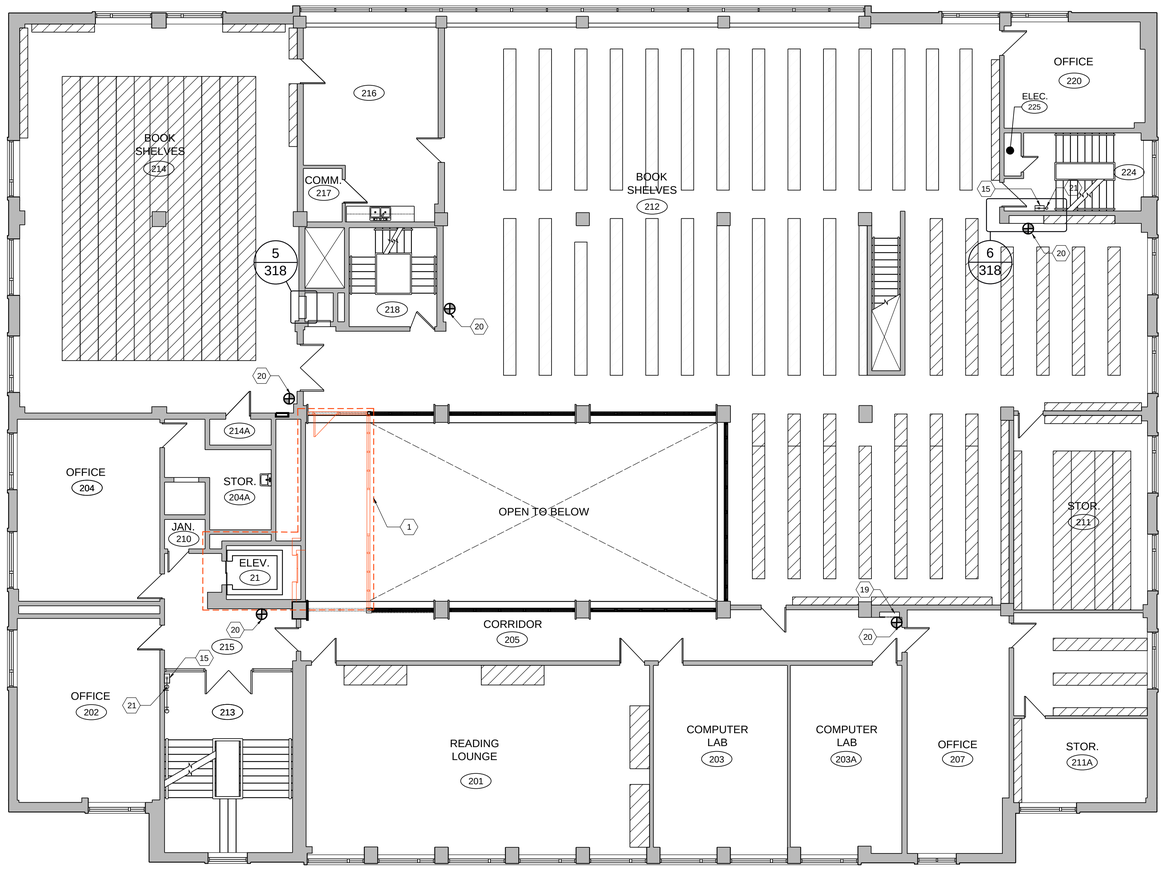
FLOOR PLAN - LEVEL 1
NEW WORK LAYOUT

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: NK		DES O | AGENT CONC
DRAWN | DESSINÉ: CS		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: DS		DES MGR | GEST CONC
COORDINATION: NK		FIRE | INCENDIE

WBS NO. | NO. OTP	PF NO. | NO. DP
KN229981	PF 500613544

DWG. NO. | NO. DESSIN: K-K74-7701/32-307

Canada



1
308

FLOOR PLAN - LEVEL 2
NEW WORK LAYOUT

SCALE: 1:100

GENERAL NOTES:

- ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE.
- SITE CONFIRM ALL EXISTING CONDITIONS AND VERIFY ALL DIMENSIONS BEFORE START OF WORK.
- REFER TO MECHANICAL AND ELECTRICAL FOR EXTENT OF REMOVALS AND UPGRADES.
- CAREFULLY REMOVE AND REINSTATE EXISTING CEILINGS AS REQUIRED FOR SPRINKLER INSTALLATION. FOR ENTIRE NEW WORK, ASSUME ~1620 sq.m. ACT REMOVAL, ~245 sq.m. GYPSUM BOARD CEILING REMOVAL, AND ~50 sq.m. METAL PANEL SUSPENDED CEILING REMOVAL. PATCH AND REFINISH GYPSUM BOARD CEILINGS TO MATCH ORIGINAL PAINT COLOUR, AS REQUIRED WHERE DAMAGED. PAINT COLOUR TO BE SELECTED BY DCC REPRESENTATIVE. FINAL SPRINKLER LAYOUT TO BE DETERMINED BY SPRINKLER CONTRACTOR. CONFIRM ON-SITE. NOTIFY DCC REPRESENTATIVE OF ANY DISCREPANCIES.
- CAREFULLY REMOVE AND REINSTATE EXISTING LIGHTING FIXTURES AS REQUIRED FOR SPRINKLER INSTALLATION. ASSUME ~500 LIGHT FIXTURES TO BE REMOVED AND REINSTATED.
- PROVIDE NEW CUT OPENINGS IN WALLS AND FLOORS AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS. LOCATE OPENINGS TO AVOID EXISTING STRUCTURAL ELEMENTS. SEAL ALL NEW PENETRATIONS IN EXISTING WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR AFTER INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS WHERE REQUIRED. REFER TO LIFE SAFETY, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECS.
- SEAL ALL EXISTING PENETRATIONS IN WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR, WHERE REQUIRED.
- EXISTING BOOKSHELVES TO REMAIN. DO NOT MOVE OR DISTURB CONTENTS. PROVIDE PROTECTION FOR BOOKSHELVES AND THEIR CONTENTS DURING DURATION OF CONSTRUCTION. COORDINATE WITH DCC REPRESENTATIVE

KEYNOTES:

1. NEW WORK BY OTHERS, SHOWN IN RED. CONFIRM LOCATIONS ON SITE/COORDINATE WITH DCC REPRESENTATIVE WHERE NECESSARY.
15. NEW FIRE HOSE CABINET. REFER TO MECHANICAL.
19. INFILL WALL AT DEMOLISHED FIRE HOSE CABINET LOCATION TO MATCH EXISTING AND MAKE GOOD.
20. NEW FIRE EXTINGUISHER. REFER TO MECHANICAL.
21. NEW MECHANICAL PIPES – REFER TO MECHANICAL DRAWINGS. ENSURE TO MAINTAIN EXISTING FIRE SEPARATION.

HATCH LEGEND:

- EXISTING METAL PANEL SUSPENDED CEILING TO REMAIN
- EXISTING ACT CEILING TO REMAIN
- EXISTING GYPSUM CEILING/BULKHEAD TO REMAIN
- EXISTING BOOKSHELVES TO REMAIN
- EXISTING BUILDING STRUCTURE TO REMAIN
- EXISTING ACT CEILING PANELS & T-BAR TO BE REMOVED AND PRESERVED FOR REINSTATEMENT
- EXISTING GYPSUM CEILING/BULKHEAD TO BE REMOVED AND REPLACED
- NEW GYPSUM CEILING/BULKHEAD

SYMBOL LEGEND:

- EXISTING METAL PANEL SUSPENDED CEILING TO BE REMOVED AND PRESERVED FOR REINSTATEMENT
- EXISTING LIGHT FIXTURE TO REMAIN - TYP.
- LIGHT FIXTURE TO BE TEMPORARILY REMOVED DURING CONSTRUCTION AND REINSTATED. REMOVE AS NECESSARY FOR INSTALLATION OF NEW MECHANICAL PIPES.
- EXISTING MECH. HVAC DIFFUSER TO REMAIN - TYP.
- FE-* FIRE EXTINGUISHER - REFER TO MECH.
- UPRIGHT SPRINKLER HEAD - REFER TO MECH.
- RECESSED SPRINKLER HEAD - REFER TO MECH.
- SURFACE MOUNTED SPRINKLER HEAD - REFER TO MECH.

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LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ

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ONTARIO ASSOCIATION OF ARCHITECTS
AUK QI
KRISTIN SCOTT DURBIN
LICENCE
8353

2026.03.30
R13 LIFE SAFETY UPGRADES

MASSEY LIBRARY

TRUE NORTH / PROJECT NORTH

NO.	DATE	REVISION	APPR.
4	2026-01-16	ISSUED FOR TENDER	D.S.
3.	2025-09-15	ISSUED FOR 100% REVIEW	D.S.
2.	2025-04-30	ISSUED FOR 99% REVIEW	D.S.
1.	2024-12-20	ISSUED FOR 60% REVIEW	D.S.

SCALE | ÉCHELLE 1:100 (2000 0 2000 4000 6000mm)

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
LIFE SAFETY UPGRADE

TRADE | MÉTIER	DATE
ARCHITECTURAL	2026-01-16

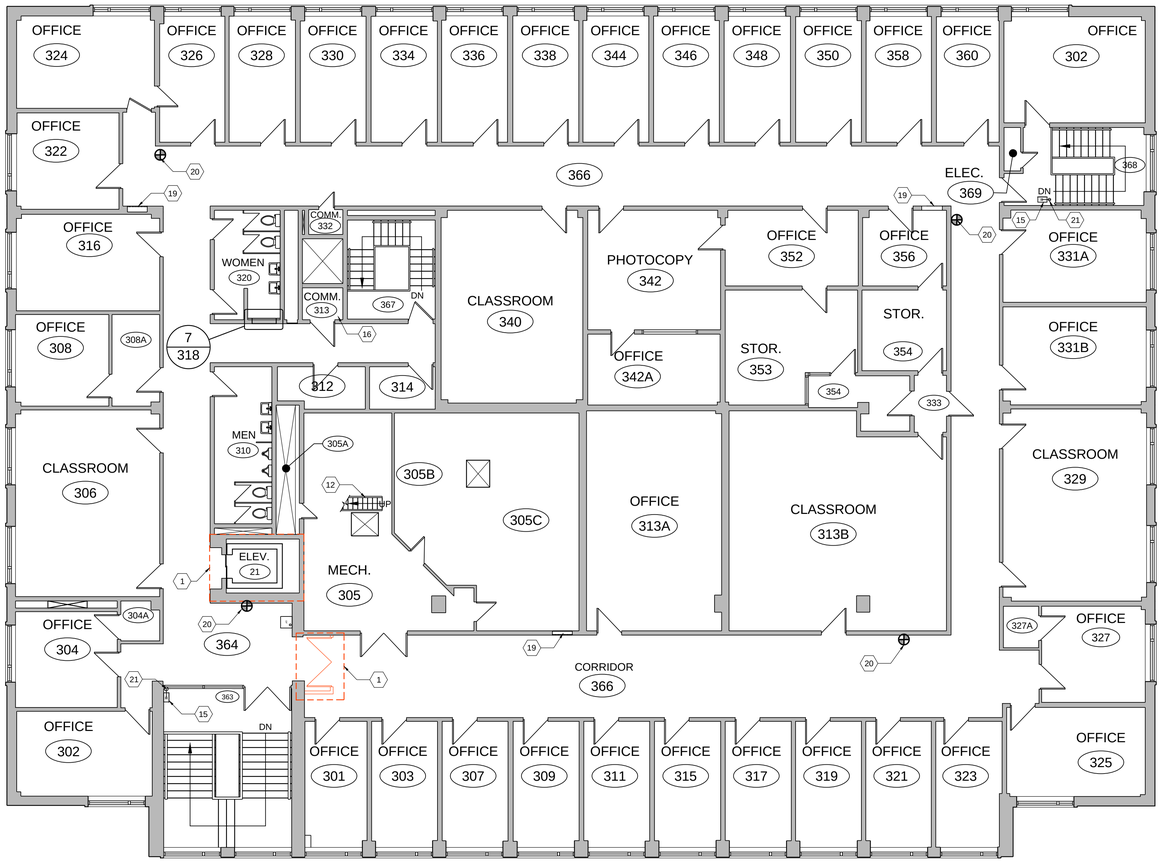
SUBJECT | SUJET
FLOOR PLAN - LEVEL 2
NEW WORK LAYOUT

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: NK		DES O | AGENT CONC
DRAWN | DESSINÉ: CS		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: DS		DES MGR | GEST CONC
COORDINATION: NK		FIRE | INCENDIE

WBS NO. | NO. OTP	PF NO. | NO. DP
KN229981	PF 500613544

DWG. NO. | NO. DESSIN: K-K74-7701/32-308

Canada



1/309 FLOOR PLAN - LEVEL 3
NEW WORK LAYOUT
SCALE: 1:100

GENERAL NOTES:

- ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE.
- SITE CONFIRM ALL EXISTING CONDITIONS AND VERIFY ALL DIMENSIONS BEFORE START OF WORK.
- REFER TO MECHANICAL AND ELECTRICAL FOR EXTENT OF REMOVALS AND UPGRADES.
- CAREFULLY REMOVE AND REINSTATE EXISTING CEILINGS AS REQUIRED FOR SPRINKLER INSTALLATION. FOR ENTIRE NEW WORK, ASSUME ~1620 sq.m. ACT REMOVAL, ~245 sq.m. GYPSUM BOARD CEILING REMOVAL, AND ~50 sq.m. METAL PANEL SUSPENDED CEILING REMOVAL. PATCH AND REFINISH GYPSUM BOARD CEILINGS TO MATCH ORIGINAL PAINT COLOUR, AS REQUIRED WHERE DAMAGED. PAINT COLOUR TO BE SELECTED BY DCC REPRESENTATIVE. FINAL SPRINKLER LAYOUT TO BE DETERMINED BY SPRINKLER CONTRACTOR. CONFIRM ON-SITE. NOTIFY DCC REPRESENTATIVE OF ANY DISCREPANCIES.
- CAREFULLY REMOVE AND REINSTATE EXISTING LIGHTING FIXTURES AS REQUIRED FOR SPRINKLER INSTALLATION. ASSUME ~500 LIGHT FIXTURES TO BE REMOVED AND REINSTATED.
- PROVIDE NEW CUT OPENINGS IN WALLS AND FLOORS AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS. LOCATE OPENINGS TO AVOID EXISTING STRUCTURAL ELEMENTS. SEAL ALL NEW PENETRATIONS IN EXISTING WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR AFTER INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS WHERE REQUIRED. REFER TO LIFE SAFETY, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECS.
- SEAL ALL EXISTING PENETRATIONS IN WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR, WHERE REQUIRED.
- EXISTING BOOKSHELVES TO REMAIN. DO NOT MOVE OR DISTURB CONTENTS. PROVIDE PROTECTION FOR BOOKSHELVES AND THEIR CONTENTS DURING DURATION OF CONSTRUCTION. COORDINATE WITH DCC REPRESENTATIVE

KEYNOTES:

1. NEW WORK BY OTHERS, SHOWN IN RED. CONFIRM LOCATIONS ON SITE/COORDINATE WITH DCC REPRESENTATIVE WHERE NECESSARY.
12. LADDER TO MECHANICAL PENTHOUSE.
15. NEW FIRE HOSE CABINET. REFER TO MECHANICAL.
19. INFILL WALL AT DEMOLISHED FIRE HOSE CABINET LOCATION TO MATCH EXISTING AND MAKE GOOD.
20. NEW FIRE EXTINGUISHER. REFER TO MECHANICAL.
21. NEW MECHANICAL PIPES - REFER TO MECHANICAL DRAWINGS. ENSURE TO MAINTAIN EXISTING FIRE SEPARATION.

HATCH LEGEND:

- EXISTING METAL PANEL SUSPENDED CEILING TO REMAIN
- EXISTING ACT CEILING TO REMAIN
- EXISTING GYPSUM CEILING/BULKHEAD TO REMAIN
- EXISTING BOOKSHELVES TO REMAIN
- EXISTING BUILDING STRUCTURE TO REMAIN
- EXISTING METAL PANEL SUSPENDED CEILING TO BE REMOVED AND PRESERVED FOR REINSTATEMENT
- EXISTING ACT CEILING PANELS & T-BAR TO BE REMOVED AND PRESERVED FOR REINSTATEMENT
- EXISTING GYPSUM CEILING/BULKHEAD TO BE REMOVED AND REPLACED
- NEW GYPSUM CEILING/BULKHEAD

SYMBOL LEGEND:

- EXISTING LIGHT FIXTURE TO REMAIN - TYP.
- LIGHT FIXTURE TO BE TEMPORARILY REMOVED DURING CONSTRUCTION AND REINSTATED. REMOVE AS NECESSARY FOR INSTALLATION OF NEW MECHANICAL PIPES.
- EXISTING MECH. HVAC DIFFUSER TO REMAIN - TYP.
- FE-? FIRE EXTINGUISHER - REFER TO MECH.
- UPRIGHT SPRINKLER HEAD - REFER TO MECH.
- RECESSED SPRINKLER HEAD - REFER TO MECH.
- SURFACE MOUNTED SPRINKLER HEAD - REFER TO MECH.

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ONTARIO ASSOCIATION OF ARCHITECTS
AUK QI
KRISTINE SCOTT DURBIN
LICENCE 8353

2025.03.30
R13 LIFE SAFETY UPGRADES

MASSEY LIBRARY

TRUE NORTH / PROJECT NORTH

NO.	DATE	REVISION	APPR.
4.	2026-01-16	ISSUED FOR TENDER	D.S.
3.	2025-09-15	ISSUED FOR 100% REVIEW	D.S.
2.	2025-04-30	ISSUED FOR 99% REVIEW	D.S.
1.	2024-12-20	ISSUED FOR 60% REVIEW	D.S.

SCALE | ÉCHELLE 1:100 (2000 0 2000 4000 6000mm)

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
LIFE SAFETY UPGRADE

TRADE | MÉTIER	DATE
ARCHITECTURAL	2026-01-16

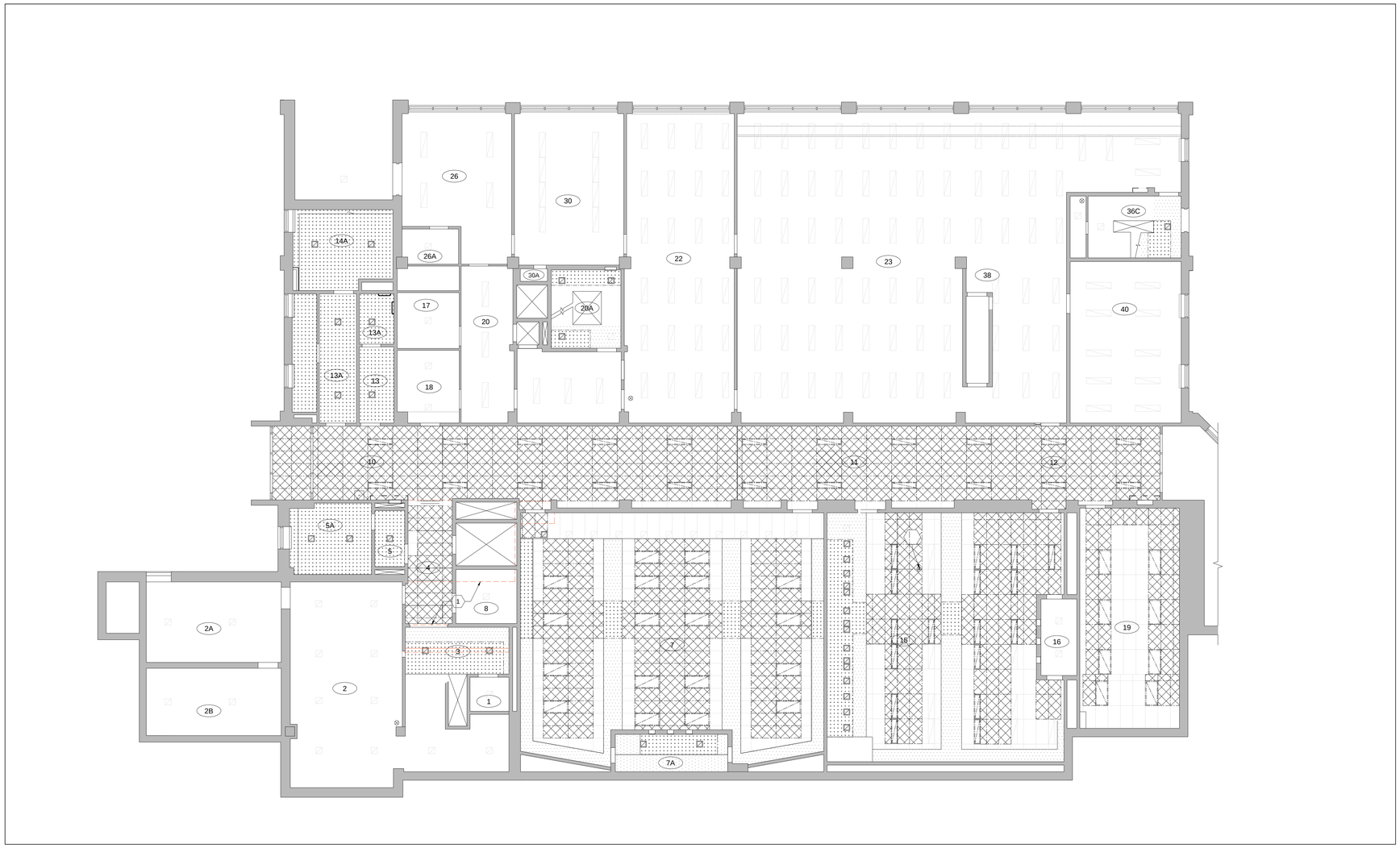
SUBJECT | SUJET
FLOOR PLAN - LEVEL 3
NEW WORK LAYOUT

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: NK		DES O | AGENT CONC
DRAWN | DESSINÉ: CS		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: DS		DES MGR | GEST CONC
COORDINATION: NK		FIRE | INCENDIE

WBS NO. | NO. OTP	PF NO. | NO. DP
KN29981	PF 500613544

DWG. NO. | NO. DESSIN: K-K74-7701/32-309

Canada



1
310
REFLECTED CEILING PLAN - LEVEL 0
EXISTING DEMO LAYOUT
SCALE: 1:100

GENERAL NOTES:

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- CAREFULLY REMOVE AND REINSTATE EXISTING LIGHTING FIXTURES AS REQUIRED FOR SPRINKLER INSTALLATION. ASSUME ~500 LIGHT FIXTURES TO BE REMOVED AND REINSTATED.
- PROVIDE NEW CUT OPENINGS IN WALLS AND FLOORS AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS. LOCATE OPENINGS TO AVOID EXISTING STRUCTURAL ELEMENTS. SEAL ALL NEW PENETRATIONS IN EXISTING WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR AFTER INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS WHERE REQUIRED. REFER TO LIFE SAFETY, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECS.
- SEAL ALL EXISTING PENETRATIONS IN WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR. WHERE REQUIRED.
- EXISTING BOOKSHELVES TO REMAIN. DO NOT MOVE OR DISTURB CONTENTS. PROVIDE PROTECTION FOR BOOKSHELVES AND THEIR CONTENTS DURING DURATION OF CONSTRUCTION. COORDINATE WITH DCC REPRESENTATIVE
- DEMOLISH EXISTING GYPSUM BOARD BULKHEAD/CEILING AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL PIPES. REFER TO MECHANICAL DRAWINGS FOR LOCATION OF PIPES.
- EXISTING ACOUSTIC CEILING TILES AND T-BAR TO BE TEMPORARILY REMOVED AND STORED FOR RE-INSTALLATION. REMOVE AS NECESSARY FOR INSTALLATION OF NEW MECHANICAL PIPES. REFER TO MECHANICAL DRAWINGS FOR LOCATION OF PIPES.

KEYNOTES:

1. NEW WORK BY OTHERS, SHOWN IN RED. CONFIRM LOCATIONS ON SITE/COORDINATE WITH DCC REPRESENTATIVE WHERE NECESSARY.
7. PROVIDE NEW CUT OPENING IN EXISTING FLOOR SLAB TO ACCOMMODATE INSTALLATION OF NEW MECHANICAL PIPES. REFER TO MECHANICAL. COORDINATE LOCATIONS OF ALL PENETRATIONS TO AVOID STRUCTURAL BEAMS.

HATCH LEGEND:

- EXISTING METAL PANEL SUSPENDED CEILING TO REMAIN
- EXISTING ACT CEILING TO REMAIN
- EXISTING GYPSUM CEILING/BULKHEAD TO REMAIN
- EXISTING BOOKSHELVES TO REMAIN
- EXISTING BUILDING STRUCTURE TO REMAIN
- EXISTING METAL PANEL SUSPENDED CEILING TO BE REMOVED AND PRESERVED FOR REINSTATEMENT
- EXISTING ACT CEILING PANELS & T-BAR TO BE REMOVED AND PRESERVED FOR REINSTATEMENT
- EXISTING GYPSUM CEILING/BULKHEAD TO BE REMOVED AND REPLACED
- NEW GYPSUM CEILING/BULKHEAD

SYMBOL LEGEND:

- EXISTING LIGHT FIXTURE TO REMAIN - TYP.
- LIGHT FIXTURE TO BE TEMPORARILY REMOVED DURING CONSTRUCTION AND REINSTATED. REMOVE AS NECESSARY FOR INSTALLATION OF NEW MECHANICAL PIPES.
- EXISTING MECH. HVAC DIFFUSER TO REMAIN - TYP.
- FE-* FIRE EXTINGUISHER - REFER TO MECH.
- UPRIGHT SPRINKLER HEAD - REFER TO MECH.
- RECESSED SPRINKLER HEAD - REFER TO MECH.
- SURFACE MOUNTED SPRINKLER HEAD - REFER TO MECH.

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LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
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ONTARIO ASSOCIATION OF ARCHITECTS
ANDREW SCOTT DURBIN
LICENCE 8893
2025.03.30
R13 LIFE SAFETY UPGRADES

MASSEY LIBRARY

TRUE NORTH / PROJECT NORTH

NO.	DATE	REVISION	APPR.
4.	2026-01-16	ISSUED FOR TENDER	D.S.
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1.	2024-12-20	ISSUED FOR 60% REVIEW	D.S.

SCALE | ÉCHELLE 1:100 (2000 0 2000 4000 6000mm)

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
LIFE SAFETY UPGRADE

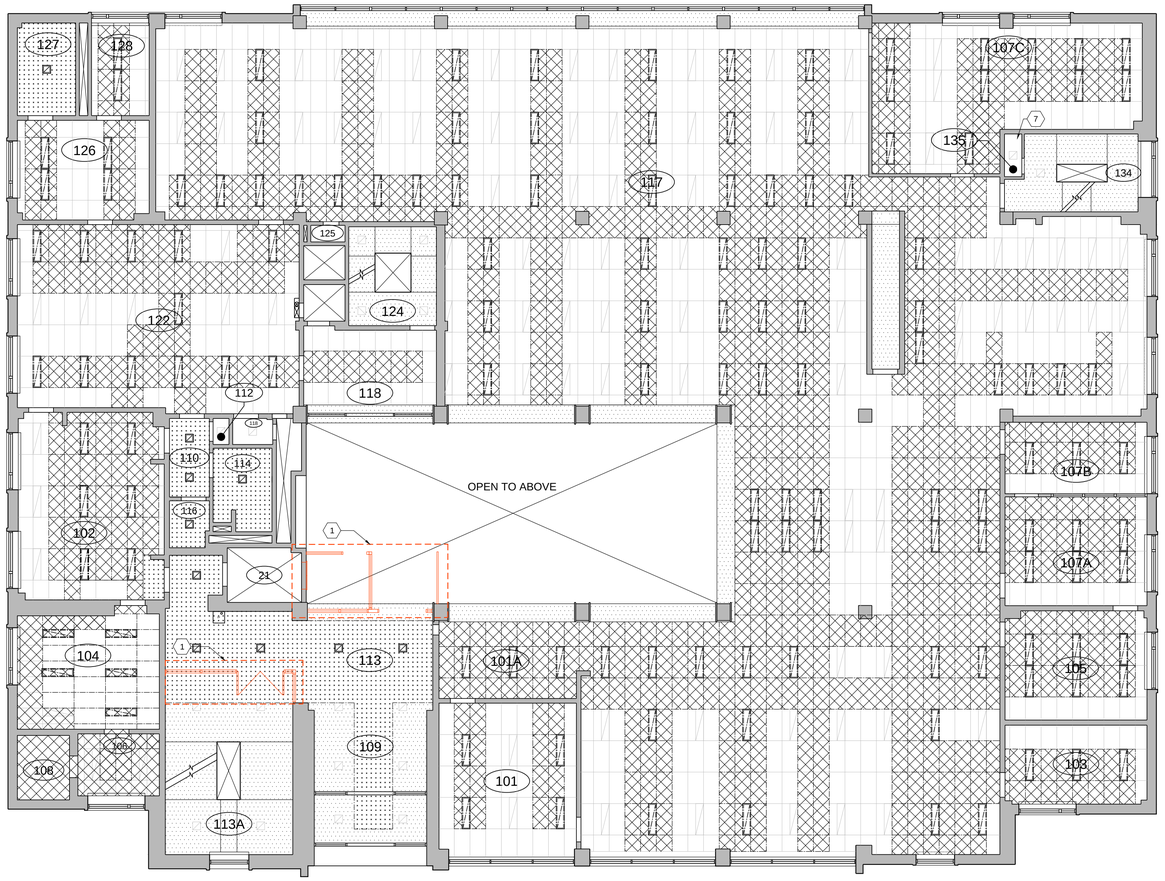
TRADE | MÉTIER: ARCHITECTURAL
DATE: 2026-01-16

SUBJECT | SUJET
REFLECTED CEILING PLAN - LEVEL 0
EXISTING & DEMO LAYOUT

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: NK		DES O | AGENT CONC
DRAWN | DESSINÉ: CS		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: DS		DES MGR | GEST CONC
COORDINATION: NK		FIRE | INCENDIE

WBS NO. | NO. OTP: KN229981
PF NO. | NO. DP: PF 500613544
DWG. NO. | NO. DESSIN: K-K74-7701/32-310

Canada



1
311

REFLECTED CEILING PLAN - LEVEL 1
EXISTING & DEMO LAYOUT

SCALE: 1:100

GENERAL NOTES:

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- CAREFULLY REMOVE AND REINSTATE EXISTING LIGHTING FIXTURES AS REQUIRED FOR SPRINKLER INSTALLATION. ASSUME ~500 LIGHT FIXTURES TO BE REMOVED AND REINSTATED.
- PROVIDE NEW CUT OPENINGS IN WALLS AND FLOORS AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS. LOCATE OPENINGS TO AVOID EXISTING STRUCTURAL ELEMENTS. SEAL ALL NEW PENETRATIONS IN EXISTING WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR AFTER INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS WHERE REQUIRED. REFER TO LIFE SAFETY, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECS.
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- EXISTING BOOKSHELVES TO REMAIN. DO NOT MOVE OR DISTURB CONTENTS. PROVIDE PROTECTION FOR BOOKSHELVES AND THEIR CONTENTS DURING DURATION OF CONSTRUCTION. COORDINATE WITH DCC REPRESENTATIVE.
- DEMOLISH EXISTING GYPSUM BOARD BULKHEADS/ CEILING AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL PIPES. REFER TO MECHANICAL DRAWINGS FOR LOCATION OF PIPES.
- EXISTING ACOUSTIC CEILING TILES AND T-BAR TO BE TEMPORARILY REMOVED AND STORED FOR RE-INSTALLATION. REMOVE AS NECESSARY FOR INSTALLATION OF NEW MECHANICAL PIPES. REFER TO MECHANICAL DRAWINGS FOR LOCATION OF PIPES.

KEYNOTES:

1. NEW WORK BY OTHERS, SHOWN IN RED. CONFIRM LOCATIONS ON SITE/COORDINATE WITH DCC REPRESENTATIVE WHERE NECESSARY.
7. PROVIDE NEW CUT OPENING IN EXISTING FLOOR SLAB TO ACCOMMODATE INSTALLATION OF NEW MECHANICAL PIPES. REFER TO MECHANICAL. COORDINATE LOCATIONS OF ALL PENETRATIONS TO AVOID STRUCTURAL BEAMS.

HATCH LEGEND:

- EXISTING METAL PANEL SUSPENDED CEILING TO REMAIN
- EXISTING ACT CEILING TO REMAIN
- EXISTING GYPSUM CEILING/BULKHEAD TO REMAIN
- EXISTING BOOKSHELVES TO REMAIN
- EXISTING BUILDING STRUCTURE TO REMAIN
- EXISTING METAL PANEL SUSPENDED CEILING TO BE REMOVED AND PRESERVED FOR REINSTATEMENT
- EXISTING ACT CEILING PANELS & T-BAR TO BE REMOVED AND PRESERVED FOR REINSTATEMENT
- EXISTING GYPSUM CEILING/BULKHEAD TO BE REMOVED AND REPLACED
- NEW GYPSUM CEILING/BULKHEAD

SYMBOL LEGEND:

- EXISTING LIGHT FIXTURE TO REMAIN - TYP.
- LIGHT FIXTURE TO BE TEMPORARILY REMOVED DURING CONSTRUCTION AND REINSTATED. REMOVE AS NECESSARY FOR INSTALLATION OF NEW MECHANICAL PIPES.
- EXISTING MECH. HVAC DIFFUSER TO REMAIN - TYP.
- FE-# FIRE EXTINGUISHER - REFER TO MECH.
- UPRIGHT SPRINKLER HEAD - REFER TO MECH.
- RECESSED SPRINKLER HEAD - REFER TO MECH.
- SURFACE MOUNTED SPRINKLER HEAD - REFER TO MECH.

Government of Canada / Gouvernement du Canada

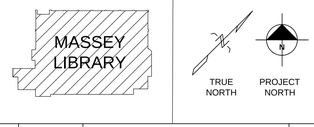
LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ

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ONTARIO ASSOCIATION OF ARCHITECTS
AUK QI
KRISTIN SCOTT DURBIN
LICENCE
8353

2025.03.30
R13 LIFE SAFETY UPGRADES



NO.	DATE	REVISION	APPR.
4.	2026-01-16	ISSUED FOR TENDER	D.S.
3.	2025-09-15	ISSUED FOR 100% REVIEW	D.S.
2.	2025-04-30	ISSUED FOR 99% REVIEW	D.S.
1.	2024-12-20	ISSUED FOR 60% REVIEW	D.S.

SCALE | ÉCHELLE
1:100
2000 0 2000 4000 6000mm

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
LIFE SAFETY UPGRADE

TRADE | MÉTIER	DATE
ARCHITECTURAL	2026-01-16

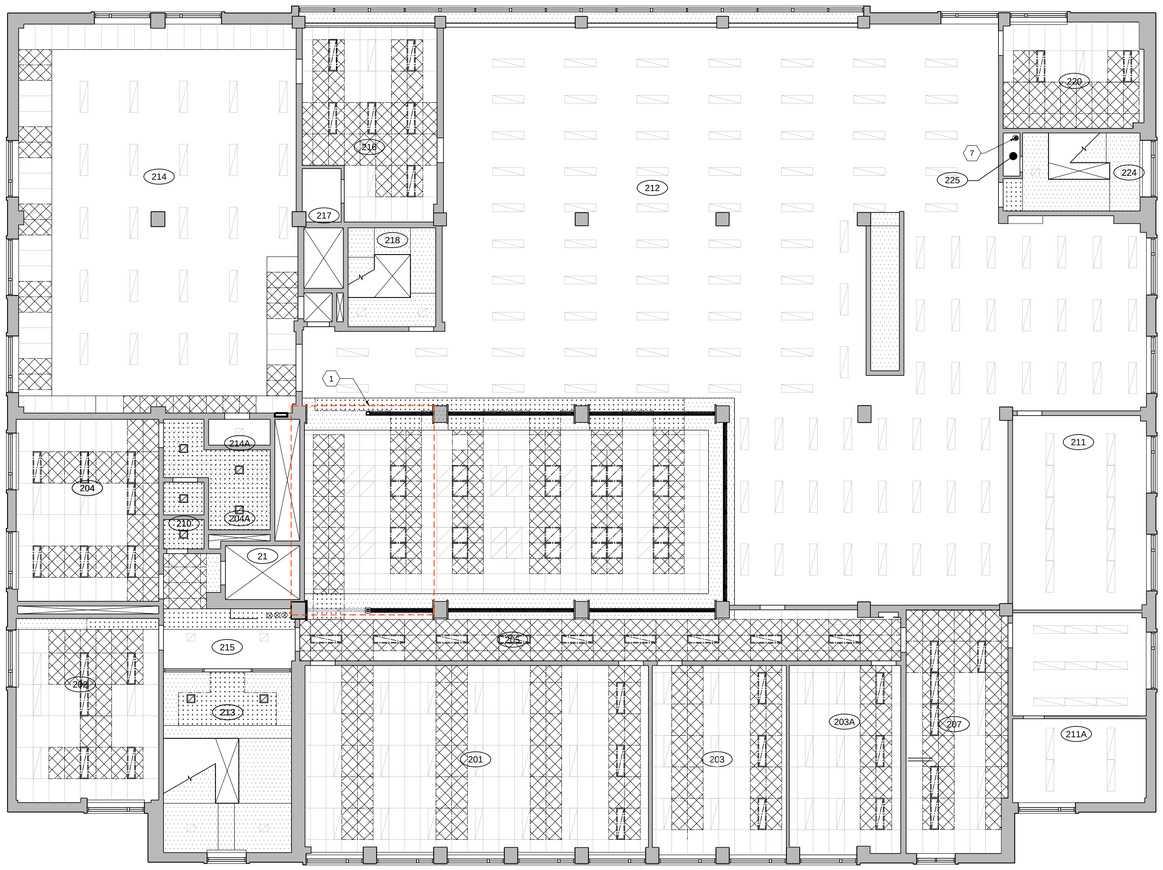
SUBJECT | SUJET
REFLECTED CEILING PLAN - LEVEL 1
EXISTING & DEMO LAYOUT

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: NK		DES O | AGENT CONC
DRAWN | DESSINÉ: CS		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: DS		DES MGR | GEST CONC
COORDINATION: NK		FIRE | INCENDIE

WBS NO. | NO. OTP	PF NO. | NO. DP
KN229981	PF 500613544

DWG. NO. | NO. DESSIN
K-K74-7701/32-311

Canada



1
312

REFLECTED CEILING PLAN - LEVEL 2
EXISTING & DEMO LAYOUT

SCALE: 1:100

GENERAL NOTES:

- ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE.
- SITE CONFIRM ALL EXISTING CONDITIONS AND VERIFY ALL DIMENSIONS BEFORE START OF WORK.
- REFER TO MECHANICAL AND ELECTRICAL FOR EXTENT OF REMOVALS AND UPGRADES.
- CAREFULLY REMOVE AND REINSTATE EXISTING CEILINGS AS REQUIRED FOR SPRINKLER INSTALLATION. FOR ENTIRE NEW WORK, ASSUME ~1620 sq.m. ACT REMOVAL, ~245 sq.m. GYPSUM BOARD CEILING REMOVAL, AND ~50 sq.m. METAL PANEL SUSPENDED CEILING REMOVAL. PATCH AND REFINISH GYPSUM BOARD CEILINGS TO MATCH ORIGINAL PAINT COLOUR AS REQUIRED WHERE DAMAGED. PAINT COLOUR TO BE SELECTED BY DCC REPRESENTATIVE. FINAL SPRINKLER LAYOUT TO BE DETERMINED BY SPRINKLER CONTRACTOR. CONFIRM ON-SITE. NOTIFY DCC REPRESENTATIVE OF ANY DISCREPANCIES.
- CAREFULLY REMOVE AND REINSTATE EXISTING LIGHTING FIXTURES AS REQUIRED FOR SPRINKLER INSTALLATION. ASSUME ~500 LIGHT FIXTURES TO BE REMOVED AND REINSTATED.
- PROVIDE NEW CUT OPENINGS IN WALLS AND FLOORS AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS. LOCATE OPENINGS TO AVOID EXISTING STRUCTURAL ELEMENTS. SEAL ALL NEW PENETRATIONS IN EXISTING WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR AFTER INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS WHERE REQUIRED. REFER TO LIFE SAFETY, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECS.
- SEAL ALL EXISTING PENETRATIONS IN WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR. WHERE REQUIRED.
- EXISTING BOOKSHELVES TO REMAIN. DO NOT MOVE OR DISTURB CONTENTS. PROVIDE PROTECTION FOR BOOKSHELVES AND THEIR CONTENTS DURING DURATION OF CONSTRUCTION. COORDINATE WITH DCC REPRESENTATIVE
- PROVIDE NEW CUT OPENING IN EXISTING FLOOR SLAB TO ACCOMMODATE INSTALLATION OF NEW MECHANICAL PIPES. REFER TO MECHANICAL COORDINATE LOCATIONS OF ALL PENETRATIONS TO AVOID STRUCTURAL BEAMS.
- EXISITNG ACOUSTIC CEILING TILES AND T-BAR TO BE TEMPORARILY REMOVED AND STORED FOR RE-INSTALLATION. REMOVE AS NECESSARY FOR INSTALLATION OF NEW MECHANICAL PIPES. REFER TO MECHANICAL DRAWINGS FOR LOCATION OF PIPES.

KEYNOTES:

1. NEW WORK BY OTHERS, SHOWN IN RED. CONFIRM LOCATIONS ON SITE/COORDINATE WITH DCC REPRESENTATIVE WHERE NECESSARY.
7. DEMOLISH EXISTING GYPSUM BOARD BULKHEAD/CEILING AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL PIPES. REFER TO MECHANICAL DRAWINGS FOR LOCATION OF PIPES.

HATCH LEGEND:

- EXISTING METAL PANEL SUSPENDED CEILING TO REMAIN
- EXISTING ACT CEILING TO REMAIN
- EXISTING GYPSUM CEILING/BULKHEAD TO REMAIN
- EXISTING BOOKSHELVES TO REMAIN
- EXISTING BUILDING STRUCTURE TO REMAIN
- EXISTING METAL PANEL SUSPENDED CEILING TO BE REMOVED AND PRESERVED FOR REINSTATEMENT
- EXISTING ACT CEILING PANELS & T-BAR TO BE REMOVED AND PRESERVED FOR REINSTATEMENT
- EXISTING GYPSUM CEILING/BULKHEAD TO BE REMOVED AND REPLACED
- NEW GYPSUM CEILING/BULKHEAD

SYMBOL LEGEND:

- EXISTING LIGHT FIXTURE TO REMAIN - TYP.
- LIGHT FIXTURE TO BE TEMPORARILY REMOVED DURING CONSTRUCTION AND REINSTATED. REMOVE AS NECESSARY FOR INSTALLATION OF NEW MECHANICAL PIPES.
- EXISTING MECH. HVAC DIFFUSER TO REMAIN - TYP.
- FE-* FIRE EXTINGUISHER - REFER TO MECH.
- UPRIGHT SPRINKLER HEAD - REFER TO MECH.
- RECESSED SPRINKLER HEAD - REFER TO MECH.
- SURFACE MOUNTED SPRINKLER HEAD - REFER TO MECH.

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LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ

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ONTARIO ASSOCIATION OF ARCHITECTS
KINGSTON DURBIN
LICENCE 8353

2025.03.30
R13 LIFE SAFETY UPGRADES

MASSEY LIBRARY

TRUE NORTH | PROJECT NORTH

NO.	DATE	REVISION	APPR.
4.	2026-01-16	ISSUED FOR TENDER	D.S.
3.	2025-09-15	ISSUED FOR 100% REVIEW	D.S.
2.	2025-04-30	ISSUED FOR 99% REVIEW	D.S.
1.	2024-12-20	ISSUED FOR 60% REVIEW	D.S.

SCALE | ÉCHELLE 1:100 (2000 0 2000 4000 6000mm)

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
LIFE SAFETY UPGRADE

TRADE | MÉTIER: ARCHITECTURAL
DATE: 2026-01-16

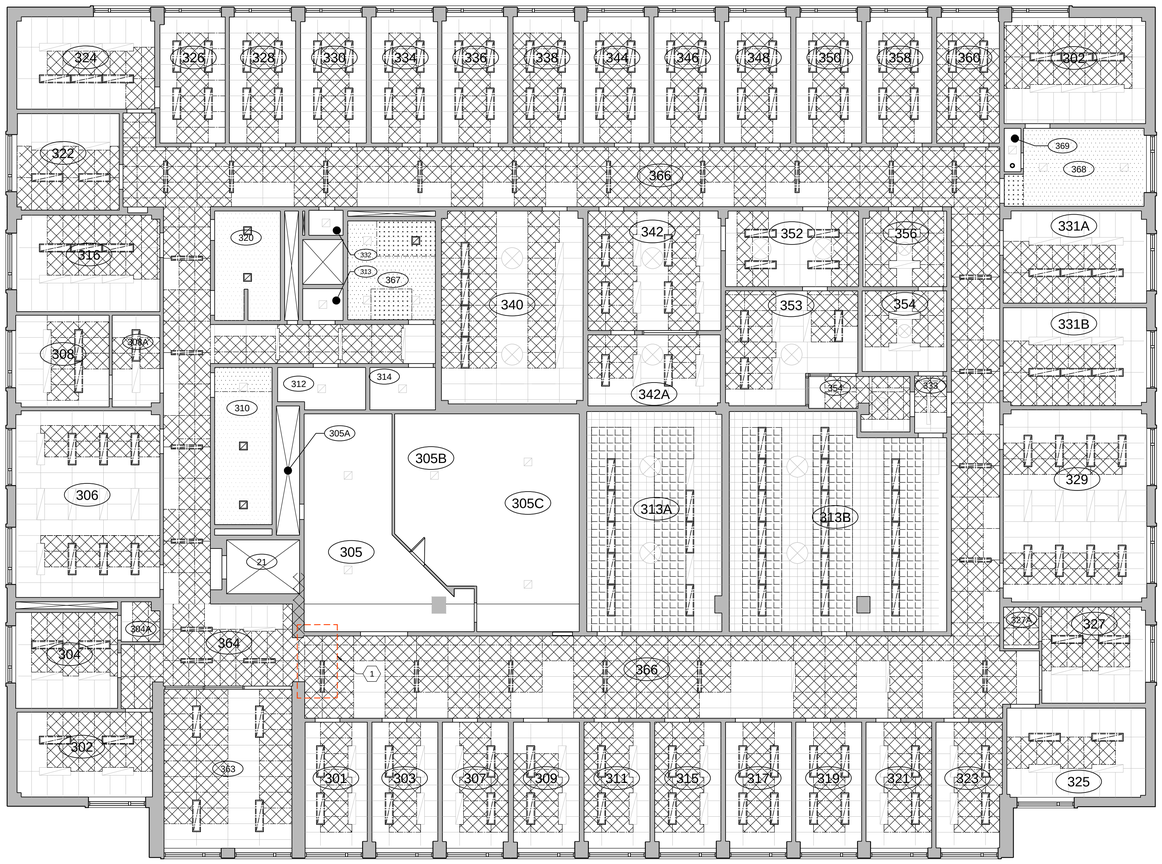
SUBJECT | SUJET
REFLECTED CEILING PLAN - LEVEL 2
EXISTING & DEMO LAYOUT

PRODUCTION	REVIEWED	REVU
DESIGNED	ÉTUDIÉ: NK	DES O	AGENT CONC
DRAWN	DESSINÉ: CS	PROJ MGR	GEST PROJ
CHECKED	VÉRIFIÉ: DS	DES MGR	GEST CONC
COORDINATION: NK		FIRE	INCENDIE

WBS NO. | NO. OTP: KN229981
PF NO. | NO. DP: PF 500613544
DWG. NO. | NO. DESSIN: K-K74-7701/32-312

Canada

Sheet# of#



1
313

REFLECTED CEILING PLAN - LEVEL 3
EXISTING & DEMO LAYOUT

SCALE: 1:100

GENERAL NOTES:

- ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE.
- SITE CONFIRM ALL EXISTING CONDITIONS AND VERIFY ALL DIMENSIONS BEFORE START OF WORK.
- REFER TO MECHANICAL AND ELECTRICAL FOR EXTENT OF REMOVALS AND UPGRADES.
- CAREFULLY REMOVE AND REINSTATE EXISTING CEILINGS AS REQUIRED FOR SPRINKLER INSTALLATION. FOR ENTIRE NEW WORK, ASSUME ~1620 sq.m. ACT REMOVAL, ~245 sq.m. GYPSUM BOARD CEILING REMOVAL, AND ~50 sq.m. METAL PANEL SUSPENDED CEILING REMOVAL. PATCH AND REFINISH GYPSUM BOARD CEILINGS TO MATCH ORIGINAL PAINT COLOUR, AS REQUIRED WHERE DAMAGED. PAINT COLOUR TO BE SELECTED BY DCC REPRESENTATIVE. FINAL SPRINKLER LAYOUT TO BE DETERMINED BY SPRINKLER CONTRACTOR. CONFIRM ON-SITE. NOTIFY DCC REPRESENTATIVE OF ANY DISCREPANCIES.
- CAREFULLY REMOVE AND REINSTATE EXISTING LIGHTING FIXTURES AS REQUIRED FOR SPRINKLER INSTALLATION. ASSUME ~500 LIGHT FIXTURES TO BE REMOVED AND REINSTATED.
- PROVIDE NEW CUT OPENINGS IN WALLS AND FLOORS AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS. LOCATE OPENINGS TO AVOID EXISTING STRUCTURAL ELEMENTS. SEAL ALL NEW PENETRATIONS IN EXISTING WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR AFTER INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS WHERE REQUIRED. REFER TO LIFE SAFETY, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECS.
- SEAL ALL EXISTING PENETRATIONS IN WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR, WHERE REQUIRED.
- EXISTING BOOKSHELVES TO REMAIN. DO NOT MOVE OR DISTURB CONTENTS. PROVIDE PROTECTION FOR BOOKSHELVES AND THEIR CONTENTS DURING DURATION OF CONSTRUCTION. COORDINATE WITH DCC REPRESENTATIVE
- DEMOLISH EXISITNG GYPSUM BOARD BULKHEAD/ CEILING AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL PIPES. REFER TO MECHANICAL DRAWINGS FOR LOCATION OF PIPES.
- EXISITNG ACOUSTIC CEILING TILES AND T-BAR TO BE TEMPORARILY REMOVED AND STORED FOR RE-INSTALLATION. REMOVE AS NECESSARY FOR INSTALLATION OF NEW MECHANICAL PIPES. REFER TO MECHANICAL DRAWINGS FOR LOCATION OF PIPES.
- EXISITNG SUSPENDED METAL PANEL CEILING TEMPORARILY REMOVED AND STORED FOR RE-INSTALLATION. ONLY REMOVE AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL PIPES. REINSTALL TILES IN AREAS OF REMOVAL. REFER TO MECHANICAL DRAWINGS FOR LOCATION OF PIPES.

KEYNOTES:

1. NEW WORK BY OTHERS, SHOWN IN RED. CONFIRM LOCATIONS ON SITE/COORDINATE WITH DCC REPRESENTATIVE WHERE NECESSARY.

HATCH LEGEND:

- EXISTING METAL PANEL SUSPENDED CEILING TO REMAIN
- EXISTING ACT CEILING TO REMAIN
- EXISTING GYPSUM CEILING/BULKHEAD TO REMAIN
- EXISTING BOOKSHELVES TO REMAIN
- EXISTING BUILDING STRUCTURE TO REMAIN
- EXISTING METAL PANEL SUSPENDED CEILING TO BE REMOVED AND PRESERVED FOR REINSTATEMENT
- EXISTING ACT CEILING PANELS & T-BAR TO BE REMOVED AND PRESERVED FOR REINSTATEMENT
- EXISTING GYPSUM CEILING/BULKHEAD TO BE REMOVED AND REPLACED
- NEW GYPSUM CEILING/BULKHEAD

SYMBOL LEGEND:

- EXISTING LIGHT FIXTURE TO REMAIN - TYP.
- LIGHT FIXTURE TO BE TEMPORARILY REMOVED DURING CONSTRUCTION AND REINSTATED. REMOVE AS NECESSARY FOR INSTALLATION OF NEW MECHANICAL PIPES.
- EXISTING MECH. HVAC DIFFUSER TO REMAIN - TYP.
- FE-# FIRE EXTINGUISHER - REFER TO MECH.
- UPRIGHT SPRINKLER HEAD - REFER TO MECH.
- RECESSED SPRINKLER HEAD - REFER TO MECH.
- SURFACE MOUNTED SPRINKLER HEAD - REFER TO MECH.

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LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
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ONTARIO ASSOCIATION OF ARCHITECTS
AUK QI
KRISTIN SCOTT DURBIN
LICENCE
8353

2025.03.30
R13 LIFE SAFETY UPGRADES

MASSEY LIBRARY

TRUE NORTH / PROJECT NORTH

NO.	DATE	REVISION	APPR.
4	2026-01-16	ISSUED FOR TENDER	D.S.
3.	2025-09-15	ISSUED FOR 100% REVIEW	D.S.
2.	2025-04-30	ISSUED FOR 99% REVIEW	D.S.
1.	2024-12-20	ISSUED FOR 60% REVIEW	D.S.

SCALE | ÉCHELLE 1:100 — 2000 0 2000 4000 6000mm

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
LIFE SAFETY UPGRADE

TRADE | MÉTIER	DATE
ARCHITECTURAL	2026-01-16

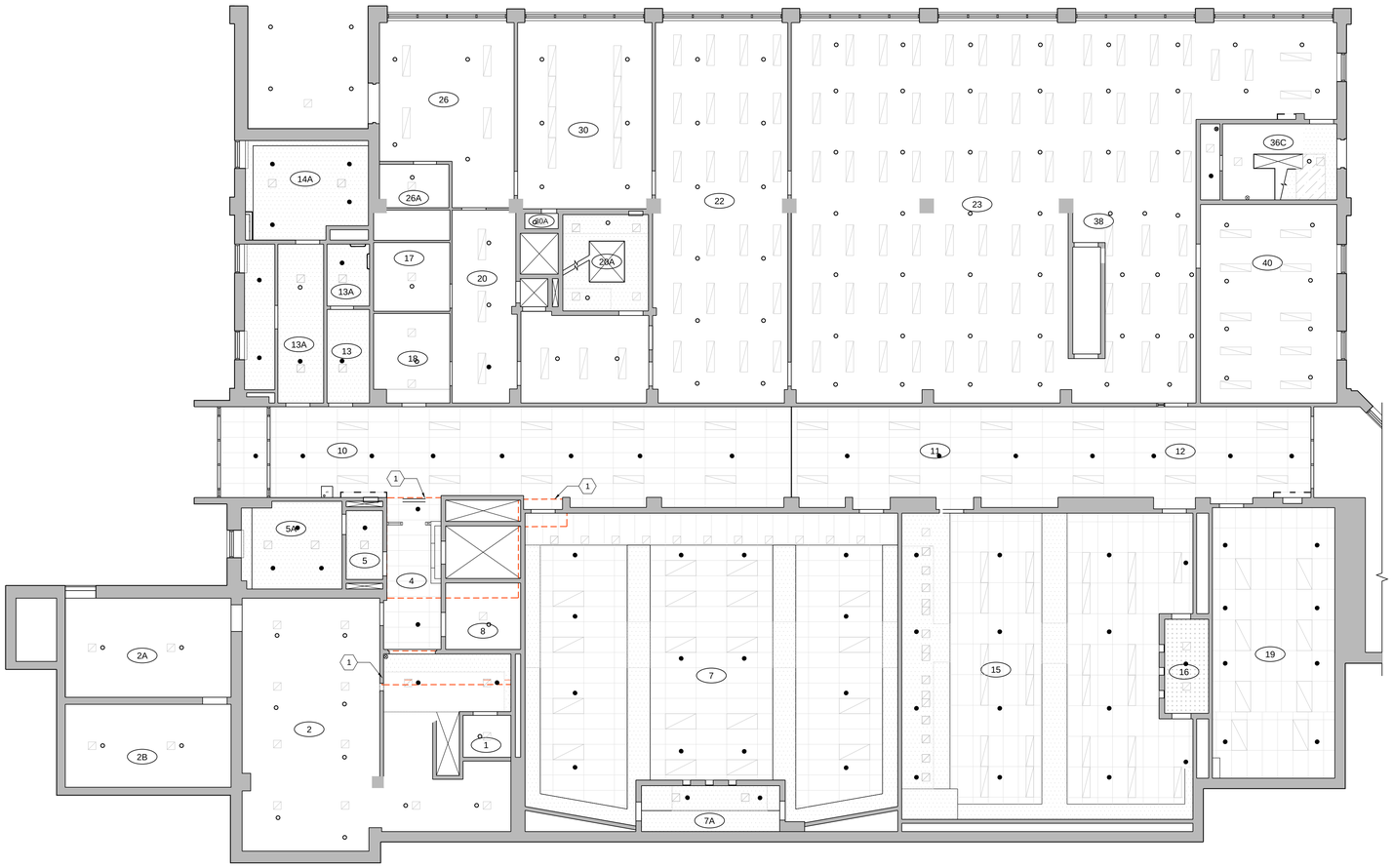
SUBJECT | SUJET
REFLECTED CEILING PLAN - LEVEL 3
EXISTING & DEMO LAYOUT

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: NK		DES O | AGENT CONC
DRAWN | DESSINÉ: CS		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: DS		DES MGR | GEST CONC
COORDINATION: NK		FIRE | INCENDIE

WBS NO. | NO. OTP	PF NO. | NO. DP
KN229981	PF 500613544

DWG. NO. | NO. DESSIN: K-K74-7701/32-313

Canada



1
314
REFLECTED CEILING PLAN - LEVEL 0
NEW WORK LAYOUT
SCALE: 1:100

GENERAL NOTES:

- ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE.
- SITE CONFIRM ALL EXISTING CONDITIONS AND VERIFY ALL DIMENSIONS BEFORE START OF WORK.
- REFER TO MECHANICAL AND ELECTRICAL FOR EXTENT OF REMOVALS AND UPGRADES.
- CAREFULLY REMOVE AND REINSTATE EXISTING CEILINGS AS REQUIRED FOR SPRINKLER INSTALLATION. FOR ENTIRE NEW WORK, ASSUME ~1620 sq.m. ACT REMOVAL, ~245 sq.m. GYPSUM BOARD CEILING REMOVAL, AND ~50 sq.m. METAL PANEL SUSPENDED CEILING REMOVAL. PATCH AND REFINISH GYPSUM BOARD CEILINGS TO MATCH ORIGINAL PAINT COLOUR, AS REQUIRED WHERE DAMAGED. PAINT COLOUR TO BE SELECTED BY DCC REPRESENTATIVE. FINAL SPRINKLER LAYOUT TO BE DETERMINED BY SPRINKLER CONTRACTOR. CONFIRM ON-SITE. NOTIFY DCC REPRESENTATIVE OF ANY DISCREPANCIES.
- CAREFULLY REMOVE AND REINSTATE EXISTING LIGHTING FIXTURES AS REQUIRED FOR SPRINKLER INSTALLATION. ASSUME ~500 LIGHT FIXTURES TO BE REMOVED AND REINSTATED.
- PROVIDE NEW CUT OPENINGS IN WALLS AND FLOORS AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS. LOCATE OPENINGS TO AVOID EXISTING STRUCTURAL ELEMENTS. SEAL ALL NEW PENETRATIONS IN EXISTING WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR AFTER INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS WHERE REQUIRED. REFER TO LIFE SAFETY, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECS.
- SEAL ALL EXISTING PENETRATIONS IN WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR WHERE REQUIRED.
- EXISTING BOOKSHELVES TO REMAIN. DO NOT MOVE OR DISTURB CONTENTS. PROVIDE PROTECTION FOR BOOKSHELVES AND THEIR CONTENTS DURING DURATION OF CONSTRUCTION. COORDINATE WITH DCC REPRESENTATIVE
- APPLY CONTINUOUS CAULKING TO NEW PENETRATION TO EXTERIOR AFTER INSTALLING NEW MECHANICAL PIPING.
- CONSTRUCT NEW GYPSUM BOARD CEILING/BULKHEAD COMPLETE WITH FRAMING WHERE PREVIOUSLY DEMOLISHED. PAINT GYPSUM BOARD TO MATCH EXISTING CEILING, COLOUR TO BE SELECTED BY DCC REPRESENTATIVE.

KEYNOTES:

1. NEW WORK BY OTHERS, SHOWN IN RED. CONFIRM LOCATIONS ON SITE/COORDINATE WITH DCC REPRESENTATIVE WHERE NECESSARY.

HATCH LEGEND:

- EXISTING METAL PANEL SUSPENDED CEILING TO REMAIN
- EXISTING ACT CEILING TO REMAIN
- EXISTING GYPSUM CEILING/BULKHEAD TO REMAIN
- EXISTING BOOKSHELVES TO REMAIN
- EXISTING BUILDING STRUCTURE TO REMAIN
- EXISTING METAL PANEL SUSPENDED CEILING TO BE REMOVED AND PRESERVED FOR REINSTATEMENT
- EXISTING ACT CEILING PANELS & T-BAR TO BE REMOVED AND PRESERVED FOR REINSTATEMENT
- EXISTING GYPSUM CEILING/BULKHEAD TO BE REMOVED AND REPLACED
- NEW GYPSUM CEILING/BULKHEAD

SYMBOL LEGEND:

- EXISTING LIGHT FIXTURE TO REMAIN - TYP.
- LIGHT FIXTURE TO BE TEMPORARILY REMOVED DURING CONSTRUCTION AND REINSTATED. REMOVE AS NECESSARY FOR INSTALLATION OF NEW MECHANICAL PIPES.
- EXISTING MECH. HVAC DIFFUSER TO REMAIN - TYP.
- FE-# FIRE EXTINGUISHER - REFER TO MECH.
- UPRIGHT SPRINKLER HEAD - REFER TO MECH.
- RECESSED SPRINKLER HEAD - REFER TO MECH.
- SURFACE MOUNTED SPRINKLER HEAD - REFER TO MECH.

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LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
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ONTARIO ASSOCIATION OF ARCHITECTS
AUTHORIZED TO PRACTISE
LASHOE
8353

2025.03.30
R13 LIFE SAFETY UPGRADES

MASSEY LIBRARY

TRUE NORTH
PROJECT NORTH

NO.	DATE	REVISION	APPR.
4	2026-01-16	ISSUED FOR TENDER	D.S.
3.	2025-09-15	ISSUED FOR 100% REVIEW	D.S.
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SCALE | ÉCHELLE
1:100
2000 0 2000 4000 6000mm

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
LIFE SAFETY UPGRADE

TRADE | MÉTIER	DATE
ARCHITECTURAL	2025-01-16

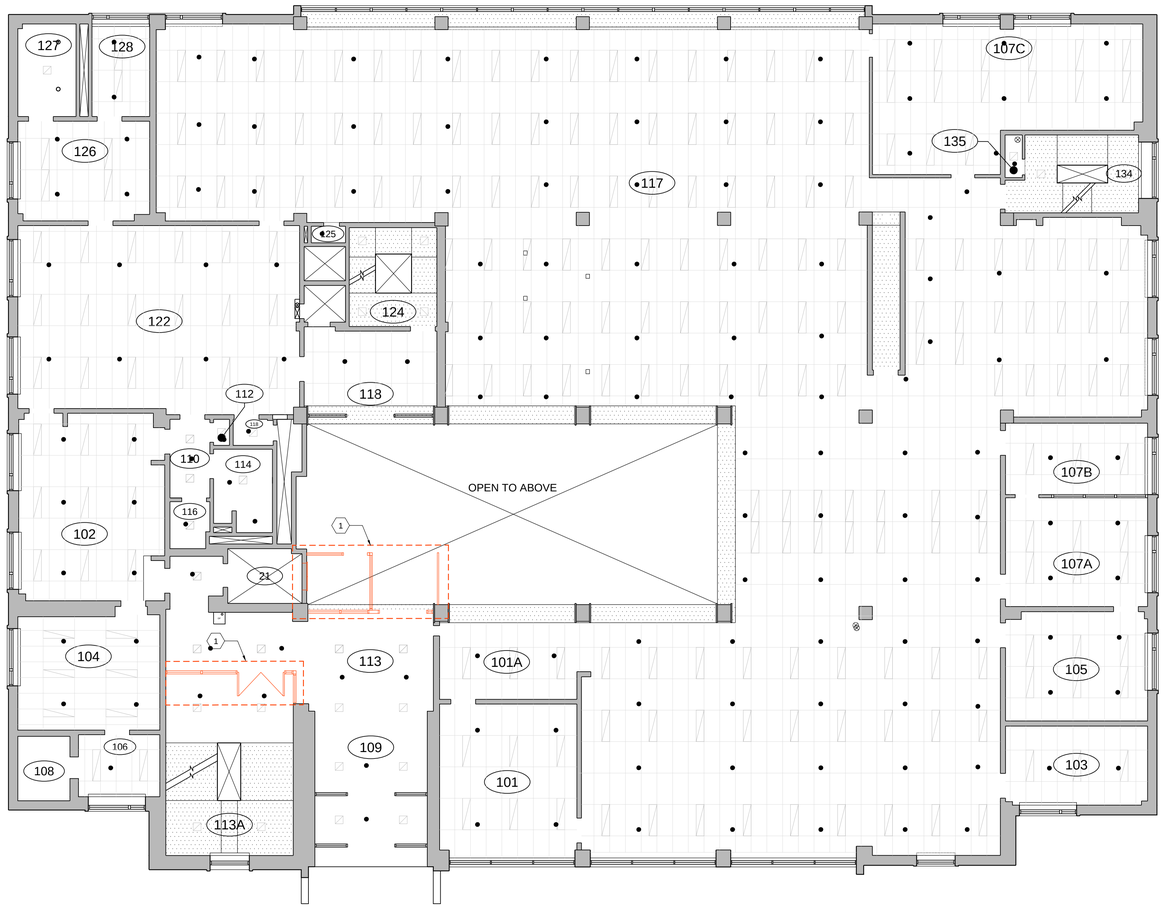
SUBJECT | SUJET
REFLECTED CEILING PLAN - LEVEL 0
NEW WORK LAYOUT

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: NK		DES O | AGENT CONC
DRAWN | DESSINÉ: CS		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: DS		DES MGR | GEST CONC
COORDINATION: NK		FIRE | INCENDIE

WBS NO. | NO. OTP	PF NO. | NO. DP
KN229981	PF 500613544

DWG. NO. | NO. DESSIN
K-K74-7701/32-314

Canada



1
315
REFLECTED CEILING PLAN - LEVEL 1
NEW WORK
SCALE: 1:100

GENERAL NOTES:

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- CAREFULLY REMOVE AND REINSTATE EXISTING LIGHTING FIXTURES AS REQUIRED FOR SPRINKLER INSTALLATION. ASSUME ~500 LIGHT FIXTURES TO BE REMOVED AND REINSTATED.
- PROVIDE NEW CUT OPENINGS IN WALLS AND FLOORS AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS. LOCATE OPENINGS TO AVOID EXISTING STRUCTURAL ELEMENTS. SEAL ALL NEW PENETRATIONS IN EXISTING WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR AFTER INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS WHERE REQUIRED. REFER TO LIFE SAFETY, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECS.
- SEAL ALL EXISTING PENETRATIONS IN WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR, WHERE REQUIRED.
- EXISTING BOOKSHELVES TO REMAIN. DO NOT MOVE OR DISTURB CONTENTS. PROVIDE PROTECTION FOR BOOKSHELVES AND THEIR CONTENTS DURING DURATION OF CONSTRUCTION. COORDINATE WITH DCC REPRESENTATIVE.
- APPLY CONTINUOUS CAULKING TO NEW PENETRATION TO EXTERIOR AFTER INSTALLING NEW MECHANICAL PIPING.
- CONSTRUCT NEW GYPSUM BOARD CEILING/BULKHEAD COMPLETE WITH FRAMING WHERE PREVIOUSLY DEMOLISHED. PAINT GYPSUM BOARD TO MATCH EXISTING CEILING, COLOUR TO BE SELECTED BY DCC REPRESENTATIVE.

KEYNOTES:

1. NEW WORK BY OTHERS, SHOWN IN RED. CONFIRM LOCATIONS ON SITE/COORDINATE WITH DCC REPRESENTATIVE WHERE NECESSARY.

HATCH LEGEND:

- EXISTING METAL PANEL SUSPENDED CEILING TO REMAIN
- EXISTING ACT CEILING TO REMAIN
- EXISTING GYPSUM CEILING/BULKHEAD TO REMAIN
- EXISTING BOOKSHELVES TO REMAIN
- EXISTING BUILDING STRUCTURE TO REMAIN
- EXISTING ACT CEILING PANELS & T-BAR TO BE REMOVED AND PRESERVED FOR REINSTATEMENT
- EXISTING GYPSUM CEILING/BULKHEAD TO BE REMOVED AND REPLACED
- NEW GYPSUM CEILING/BULKHEAD

SYMBOL LEGEND:

- EXISTING LIGHT FIXTURE TO REMAIN - TYP.
- LIGHT FIXTURE TO BE TEMPORARILY REMOVED DURING CONSTRUCTION AND REINSTATED. REMOVE AS NECESSARY FOR INSTALLATION OF NEW MECHANICAL PIPES.
- EXISTING MECH. HVAC DIFFUSER TO REMAIN - TYP.
- FE.* FIRE EXTINGUISHER - REFER TO MECH.
- UPRIGHT SPRINKLER HEAD - REFER TO MECH.
- RECESSED SPRINKLER HEAD - REFER TO MECH.
- SURFACE MOUNTED SPRINKLER HEAD - REFER TO MECH.
- X X1 X N EXIT SIGN - REFER TO ELECTRICAL

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LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
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ONTARIO ASSOCIATION OF ARCHITECTS
AUTHORIZED TO PRACTICE
LASHOE
2026.03.30
RIB LIFE SAFETY UPGRADES

MASSEY LIBRARY

TRUE NORTH / PROJECT NORTH

NO.	DATE	REVISION	APPR.
4.	2026-01-16	ISSUED FOR TENDER	D.S.
3.	2025-09-15	ISSUED FOR 100% REVIEW	D.S.
2.	2025-04-30	ISSUED FOR 99% REVIEW	D.S.
1.	2024-12-20	ISSUED FOR 60% REVIEW	D.S.

SCALE | ÉCHELLE 1:160

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
LIFE SAFETY UPGRADE

TRADE | MÉTIER	DATE
ARCHITECTURAL	2026-01-16

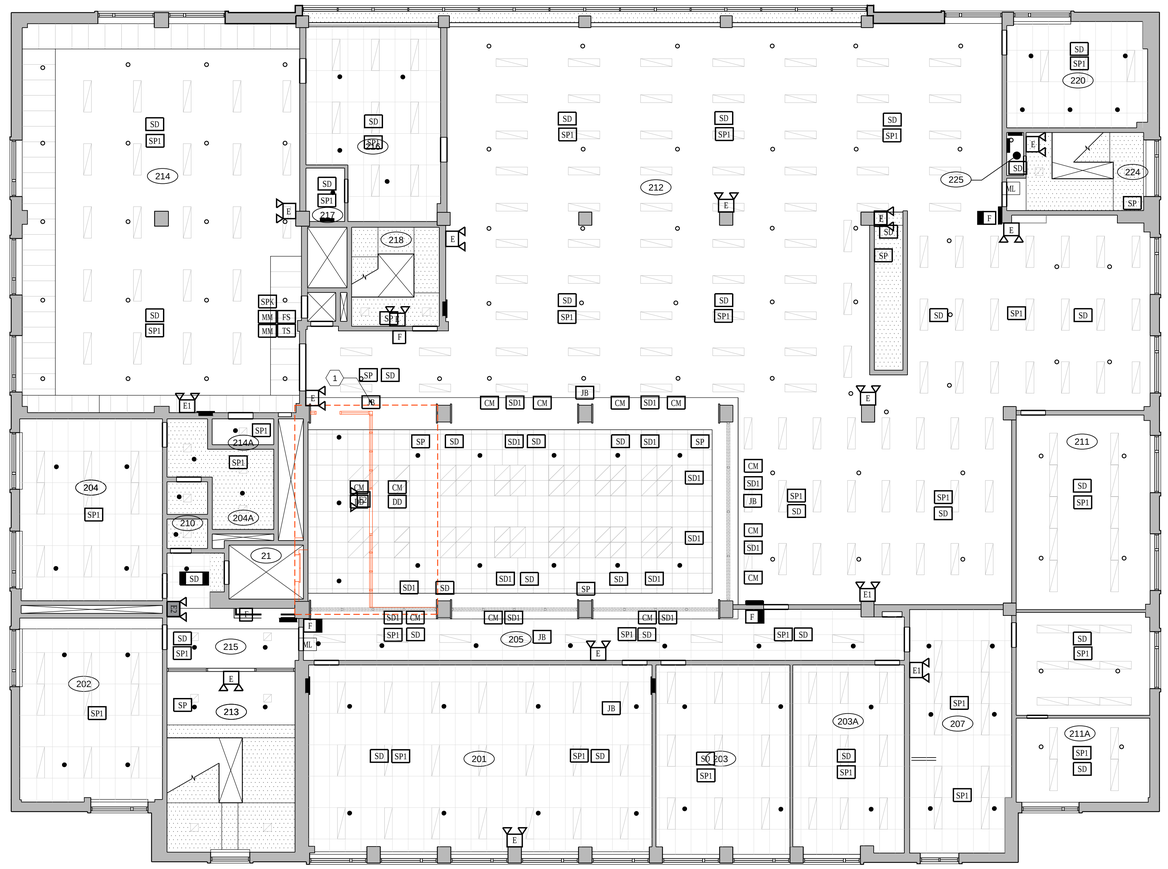
SUBJECT | SUJET
LEVEL 1 REFLECTED CEILING PLAN - NEW WORK LAYOUT

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: NK		DES O | AGENT CONC
DRAWN | DESSINÉ: CS		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: DS		DES MGR | GEST CONC
COORDINATION: NK		FIRE | INCENDIE

WBS NO. | NO. OTP	PF NO. | NO. DP
KN229981	PF 500613544

DWG. NO. | NO. DESSIN: K-K74-7701/32-315

Canada



1
316

REFLECTED CEILING PLAN - LEVEL 2
NEW WORK LAYOUT

SCALE: 1:100

GENERAL NOTES:

- ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE.
- SITE CONFIRM ALL EXISTING CONDITIONS AND VERIFY ALL DIMENSIONS BEFORE START OF WORK.
- REFER TO MECHANICAL AND ELECTRICAL FOR EXTENT OF REMOVALS AND UPGRADES.
- CAREFULLY REMOVE AND REINSTATE EXISTING CEILINGS AS REQUIRED FOR SPRINKLER INSTALLATION. FOR ENTIRE NEW WORK, ASSUME ~1620 sq.m. ACT REMOVAL, ~245 sq.m. GYPSUM BOARD CEILING REMOVAL, AND ~50 sq.m. METAL PANEL SUSPENDED CEILING REMOVAL. PATCH AND REFINISH GYPSUM BOARD CEILINGS TO MATCH ORIGINAL PAINT COLOUR, AS REQUIRED WHERE DAMAGED. PAINT COLOUR TO BE SELECTED BY DCC REPRESENTATIVE. FINAL SPRINKLER LAYOUT TO BE DETERMINED BY SPRINKLER CONTRACTOR. CONFIRM ON-SITE, NOTIFY DCC REPRESENTATIVE OF ANY DISCREPANCIES.
- CAREFULLY REMOVE AND REINSTATE EXISTING LIGHTING FIXTURES AS REQUIRED FOR SPRINKLER INSTALLATION. ASSUME ~500 LIGHT FIXTURES TO BE REMOVED AND REINSTATED.
- PROVIDE NEW CUT OPENINGS IN WALLS AND FLOORS AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS. LOCATE OPENINGS TO AVOID EXISTING STRUCTURAL ELEMENTS. SEAL ALL NEW PENETRATIONS IN EXISTING WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR AFTER INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS WHERE REQUIRED. REFER TO LIFE SAFETY, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECS.
- SEAL ALL EXISTING PENETRATIONS IN WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR WHERE REQUIRED.
- EXISTING BOOKSHELVES TO REMAIN. DO NOT MOVE OR DISTURB CONTENTS. PROVIDE PROTECTION FOR BOOKSHELVES AND THEIR CONTENTS DURING DURATION OF CONSTRUCTION. COORDINATE WITH DCC REPRESENTATIVE.

  CONSTRUCT NEW GYPSUM BOARD CEILING/BULKHEAD COMPLETE WITH FRAMING WHERE PREVIOUSLY DEMOLISHED. PAINT GYPSUM BOARD TO MATCH EXISTING CEILING, COLOUR TO BE SELECTED BY DCC REPRESENTATIVE.

KEYNOTES:

1. NEW WORK BY OTHERS, SHOWN IN RED. CONFIRM LOCATIONS ON SITE/COORDINATE WITH DCC REPRESENTATIVE WHERE NECESSARY.

HATCH LEGEND:

- EXISTING METAL PANEL SUSPENDED CEILING TO REMAIN
- EXISTING ACT CEILING TO REMAIN
- EXISTING GYPSUM CEILING/BULKHEAD TO REMAIN
- EXISTING BOOKSHELVES TO REMAIN
- EXISTING BUILDING STRUCTURE TO REMAIN
- EXISTING ACT CEILING PANELS & T-BAR TO BE REMOVED AND PRESERVED FOR REINSTATEMENT
- EXISTING GYPSUM CEILING/BULKHEAD TO BE REMOVED AND REPLACED
- NEW GYPSUM CEILING/BULKHEAD

SYMBOL LEGEND:

- EXISTING LIGHT FIXTURE TO REMAIN - TYP.
- LIGHT FIXTURE TO BE TEMPORARILY REMOVED DURING EXISTING CONSTRUCTION AND REINSTATED. REMOVED AND DISCARDED FOR INSTALLATION OF NEW MECHANICAL PIPES.
- EXISTING MECH. HVAC DIFFUSER TO REMAIN - TYP.
- FE-# FIRE EXTINGUISHER - REFER TO MECH.
- UPRIGHT SPRINKLER HEAD - REFER TO MECH.
- RECESSED SPRINKLER HEAD - REFER TO MECH.
- SURFACE MOUNTED SPRINKLER HEAD - REFER TO MECH.

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LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
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ONTARIO ASSOCIATION OF ARCHITECTS
AUTHORIZED TO PRACTISE
LASHOE
8854
2025.03.30
RIB LIFE SAFETY UPGRADES

MASSEY LIBRARY

TRUE NORTH / PROJECT NORTH

NO.	DATE	REVISION	APPR.
4.	2026-01-16	ISSUED FOR TENDER	D.S.
3.	2025-09-15	ISSUED FOR 100% REVIEW	D.S.
2.	2025-04-30	ISSUED FOR 99% REVIEW	D.S.
1.	2024-12-20	ISSUED FOR 60% REVIEW	D.S.

SCALE | ÉCHELLE 1:100 (2000 0 2000 4000 6000mm)

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
LIFE SAFETY UPGRADE

TRADE | MÉTIER	DATE
ARCHITECTURAL	2026-01-16

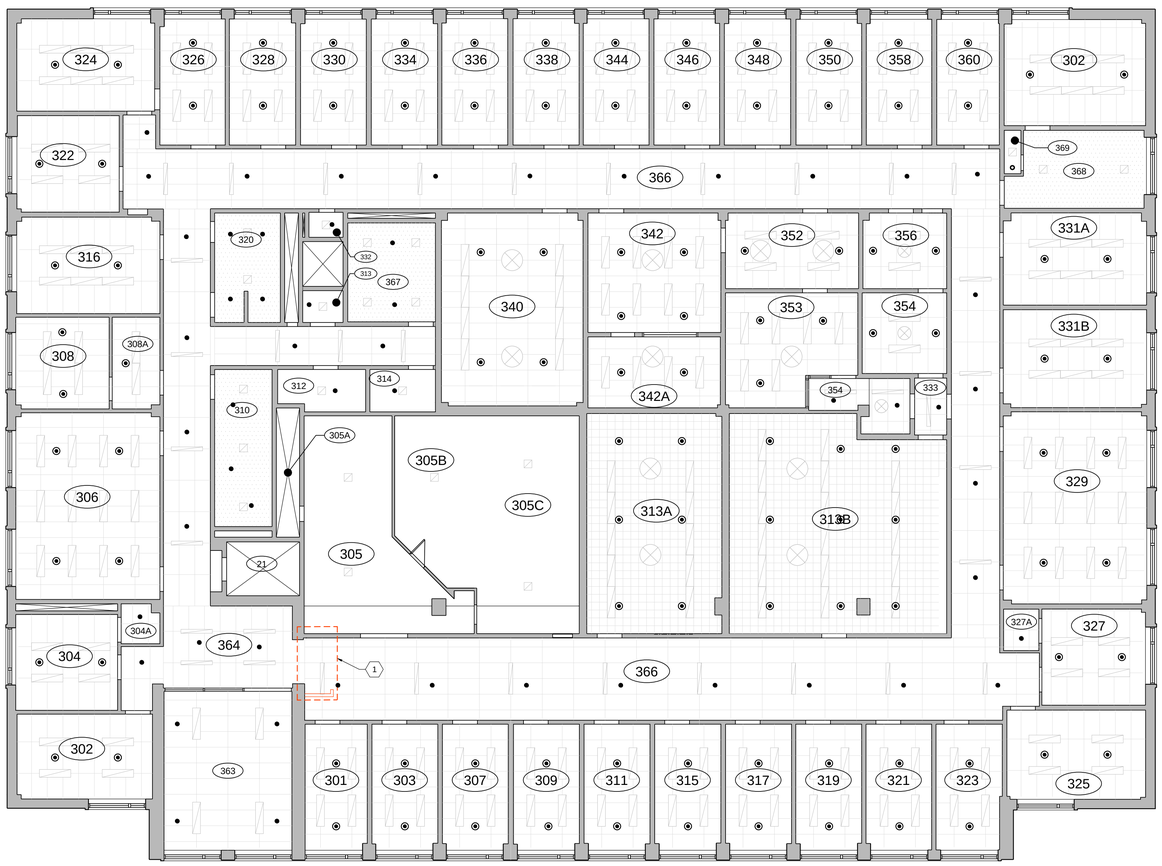
SUBJECT | SUJET
REFLECTED CEILING PLAN - LEVEL 2
NEW WORK LAYOUT

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: NK		DES O | AGENT CONC
DRAWN | DESSINÉ: CS		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: DS		DES MGR | GEST CONC
COORDINATION: NK		FIRE | INCENDIE

WBS NO. | NO. OTP	PF NO. | NO. DP
KN229981	PF 500613544

DWG. NO. | NO. DESSIN: K-K74-7701/32-316

Canada



1
317
REFLECTED CEILING PLAN - LEVEL 3
NEW WORK LAYOUT
SCALE: 1:100

GENERAL NOTES:

- ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE.
- SITE CONFIRM ALL EXISTING CONDITIONS AND VERIFY ALL DIMENSIONS BEFORE START OF WORK.
- REFER TO MECHANICAL AND ELECTRICAL FOR EXTENT OF REMOVALS AND UPGRADES.
- CAREFULLY REMOVE AND REINSTATE EXISTING CEILINGS AS REQUIRED FOR SPRINKLER INSTALLATION. FOR ENTIRE NEW WORK, ASSUME ~1620 SQ.M. ACT REMOVAL, ~245 SQ.M. GYPSUM BOARD CEILING REMOVAL, AND ~50 SQ.M. METAL PANEL SUSPENDED CEILING REMOVAL. PATCH AND REFINISH GYPSUM BOARD CEILINGS TO MATCH ORGINAL PAINT COLOUR, AS REQUIRED WHERE DAMAGED. PAINT COLOUR TO BE SELECTED BY DCC REPRESENTATIVE. FINAL SPRINKLER LAYOUT TO BE DETERMINED BY SPRINKLER CONTRACTOR. CONFIRM ON-SITE, NOTIFY DCC REPRESENTATIVE OF ANY DISCREPANCIES.
- CAREFULLY REMOVE AND REINSTATE EXISTING LIGHTING FIXTURES AS REQUIRED FOR SPRINKLER INSTALLATION. ASSUME ~500 LIGHT FIXTURES TO BE REMOVED AND REINSTATED.
- PROVIDE NEW CUT OPENINGS IN WALLS AND FLOORS AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS. LOCATE OPENINGS TO AVOID EXISTING STRUCTURAL ELEMENTS. SEAL ALL NEW PENETRATIONS IN EXISTING WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR AFTER INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS WHERE REQUIRED. REFER TO LIFE SAFETY, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECS.
- SEAL ALL EXISTING PENETRATIONS IN WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR. WHERE REQUIRED.
- EXISTING BOOKSHELVES TO REMAIN. DO NOT MOVE OR DISTURB CONTENTS. PROVIDE PROTECTION FOR BOOKSHELVES AND THEIR CONTENTS DURING DURATION OF CONSTRUCTION. COORDINATE WITH DCC REPRESENTATIVE
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KEYNOTES:

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- EXISTING ACT CEILING TO REMAIN
- EXISTING GYPSUM CEILING/BULKHEAD TO REMAIN
- EXISTING BOOKSHELVES TO REMAIN
- EXISTING BUILDING STRUCTURE TO REMAIN
- EXISTING METAL PANEL SUSPENDED CEILING TO BE REMOVED AND PRESERVED FOR REINSTATEMENT
- EXISTING ACT CEILING PANELS & T-BAR TO BE REMOVED AND PRESERVED FOR REINSTATEMENT
- EXISTING GYPSUM CEILING/BULKHEAD TO BE REMOVED AND REPLACED
- NEW GYPSUM CEILING/BULKHEAD

SYMBOL LEGEND:

- EXISTING LIGHT FIXTURE TO REMAIN - TYP.
- LIGHT FIXTURE TO BE TEMPORARILY REMOVED DURING CONSTRUCTION AND REINSTATED. REMOVE AS NECESSARY FOR INSTALLATION OF NEW MECHANICAL PIPES.
- EXISTING MECH. HVAC DIFFUSER TO REMAIN - TYP.
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- RECESSED SPRINKLER HEAD - REFER TO MECH.
- SURFACE MOUNTED SPRINKLER HEAD - REFER TO MECH.

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LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
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ONTARIO ASSOCIATION OF ARCHITECTS
AUK QI
KRISTIN SCOTT DURBIN
LICENCE
8353
2025.03.30
R13 LIFE SAFETY UPGRADES

MASSEY LIBRARY

TRUE NORTH / PROJECT NORTH

NO.	DATE	REVISION	APPR.
4.	2026-01-16	ISSUED FOR TENDER	D.S.
3.	2025-09-15	ISSUED FOR 100% REVIEW	D.S.
2.	2025-04-30	ISSUED FOR 99% REVIEW	D.S.
1.	2024-12-20	ISSUED FOR 60% REVIEW	D.S.

SCALE | ÉCHELLE 1:100 (2000 0 2000 4000 6000mm)

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
LIFE SAFETY UPGRADE

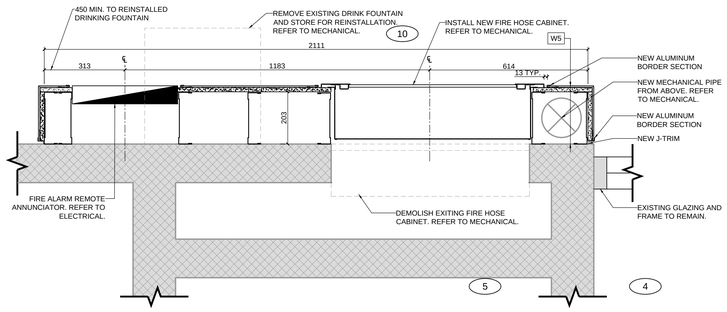
TRADE | MÉTIER	DATE
ARCHITECTURAL	2026-01-16

SUBJECT | SUJET
REFLECTED CEILING PLAN - LEVEL 3
NEW WORK LAYOUT

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: NK		DES O | AGENT CONC
DRAWN | DESSINÉ: CS		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: DS		DES MGR | GEST CONC
COORDINATION: NK		FIRE | INCENDIE

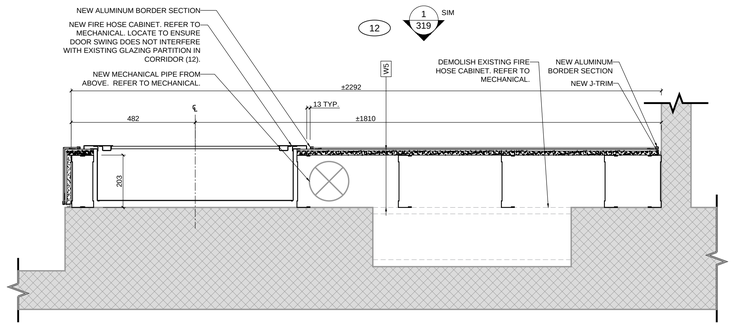
WBS NO. | NO. OTP: KN229981
PF NO. | NO. DP: PF 500613544
DWG. NO. | NO. DESSIN: K-K74-7701/32-317

Canada



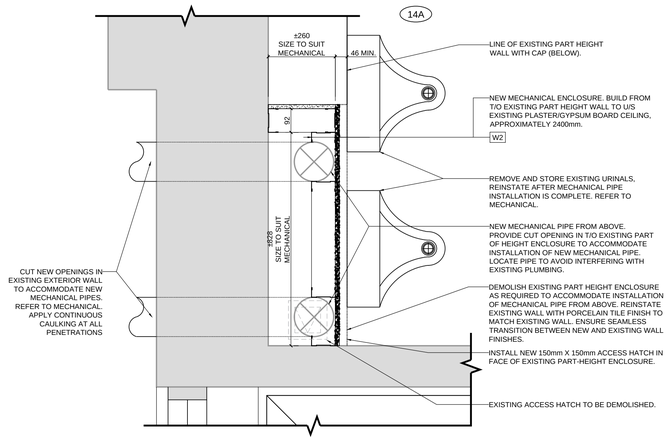
1 / 318 LEVEL 0 - NEW MECH ENCLOSURE

SCALE: 1:10



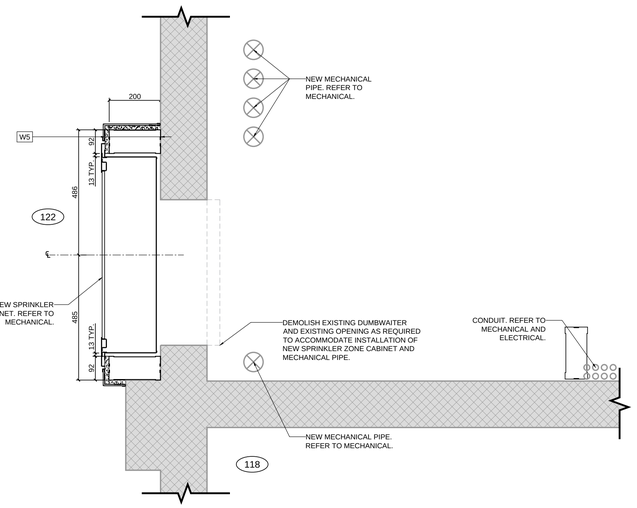
2 / 318 LEVEL 0 - NEW MECH ENCLOSURE & DEMO

SCALE: 1:10



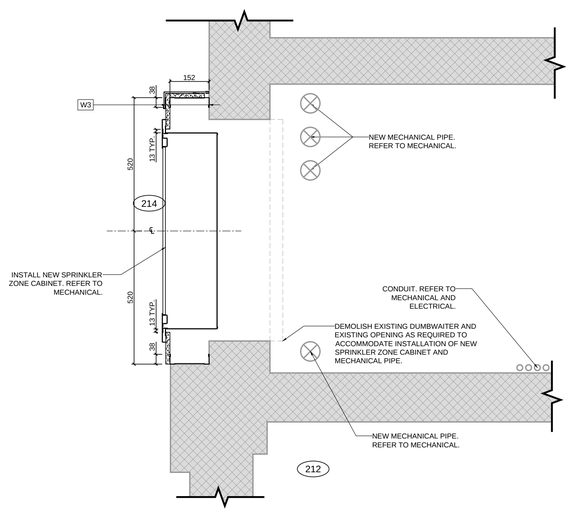
3 / 318 LEVEL 0 - NEW FIRE DEPT. CONNECTION

SCALE: 1:10



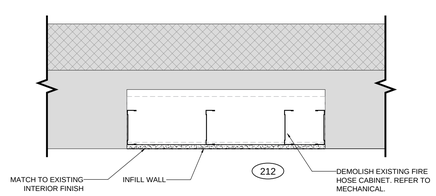
4 / 318 LEVEL 1 - NEW SPRINKLER ZONE CABINET

SCALE: 1:10



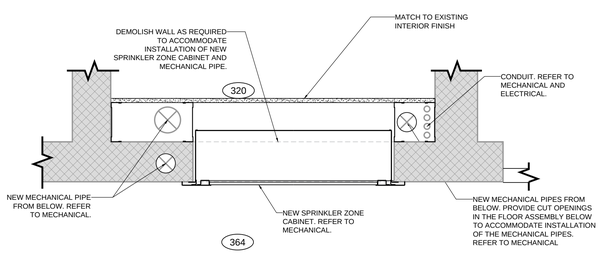
5 / 318 LEVEL 2 - NEW SPRINKLER ZONE CABINET

SCALE: 1:10



6 / 318 NEW CONSTRUCTION - WALL INFILL - TYPICAL

SCALE: 1:10



7 / 318 LEVEL 3 - NEW SPRINKLER ZONE CABINET

SCALE: 1:10

GENERAL NOTES:

- ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE.
- SITE CONFIRM ALL EXISTING CONDITIONS AND VERIFY ALL DIMENSIONS BEFORE START OF WORK.
- REFER TO MECHANICAL AND ELECTRICAL FOR EXTENT OF REMOVALS AND UPGRADES.
- CAREFULLY REMOVE AND REINSTATE EXISTING CEILINGS AS REQUIRED FOR SPRINKLER INSTALLATION. FOR ENTIRE NEW WORK, ASSUME ~1600 SQ.M. ACT REMOVAL, ~240 SQ.M. GYPSUM BOARD CEILING REMOVAL, AND ~50 SQ.M. METAL PANEL SUSPENDED CEILING REMOVAL. PATCH AND REFINISH GYPSUM BOARD CEILINGS TO MATCH ORIGINAL PAINT COLOUR, AS REQUIRED WHERE DAMAGED. PAINT COLOUR TO BE SELECTED BY DCC REPRESENTATIVE. FINAL SPRINKLER LAYOUT TO BE DETERMINED BY SPRINKLER CONTRACTOR. CONFIRM ON-SITE NOTIFY DEPARTMENTAL REPRESENTATIVE OF ANY DISCREPANCIES.
- CAREFULLY REMOVE AND REINSTATE EXISTING LIGHTING FIXTURES AS REQUIRED FOR SPRINKLER INSTALLATION. ASSUME ~500 LIGHT FIXTURES TO BE REMOVED AND REINSTATED.
- PROVIDE NEW CUT OPENINGS IN WALLS AND FLOORS AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS. LOCATE OPENINGS TO AVOID EXISTING STRUCTURAL ELEMENTS. SEAL ALL NEW PENETRATIONS IN EXISTING WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR AFTER INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS. REFER TO MECHANICAL AND ELECTRICAL.
- SEAL ALL EXISTING PENETRATIONS IN WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR, WHERE REQUIRED.
- EXISTING BOOKSHELVES TO REMAIN. DO NOT MOVE OR DISTURB CONTENTS. PROVIDE PROTECTION FOR BOOKSHELVES AND THEIR CONTENTS DURING DURATION OF CONSTRUCTION. COORDINATE WITH DCC REPRESENTATIVE

WALL ASSEMBLIES:

W1
- ALUMINUM COMPOSITE PANEL
- 16mm GYPSUM BOARD SHEATHING
- 92MM STEEL STUDS @ 400MM O.C.

W2
- 16mm GYPSUM BOARD SHEATHING
- 92MM STEEL STUDS @ 400MM O.C.

W3
- ALUMINUM COMPOSITE PANEL
- 16mm GYPSUM BOARD SHEATHING
- 152mm STEEL STUDS @ 400mm O.C.

W4
- 16mm GYPSUM BOARD SHEATHING
- 152MM STEEL STUDS @ 400MM O.C.

W5
- ALUMINUM COMPOSITE PANEL
- 16mm GYPSUM BOARD SHEATHING
- 203MM STEEL STUDS @ 400MM O.C.

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LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
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ONTARIO ASSOCIATION OF ARCHITECTS
2025-03-30
R13 LIFE SAFETY UPGRADES

MASSEY LIBRARY

TRUE NORTH / PROJECT NORTH

NO.	DATE	REVISION	APPR.
4.	2026-01-16	ISSUED FOR TENDER	D.S.
3.	2025-09-15	ISSUED FOR 100% REVIEW	D.S.
2.	2025-04-30	ISSUED FOR 99% REVIEW	D.S.
1.	2024-12-20	ISSUED FOR 60% REVIEW	D.S.

SCALE | ÉCHELLE: AS INDICATED (ARCH D) — 200 0 200 400 600mm

LOCATION | EMPLACEMENT

BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET

MASSEY LIBRARY
LIFE SAFETY UPGRADE

TRADE | MÉTIER: ARCHITECTURAL
DATE: 2026-01-16

SUBJECT | SUJET

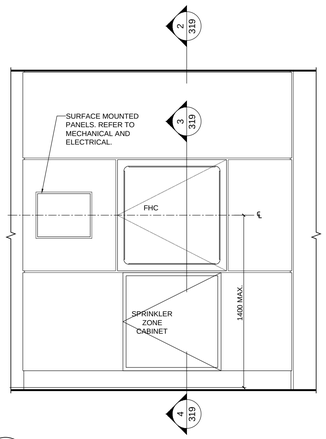
MECHANICAL ENCLOSURE DETAILS

PRODUCTION	REVIEWED	REVU	
DESIGNED	ÉTUDIÉ: NK		DES O | AGENT CONC
DRAWN	DESSINÉ: CS		PROJ MGR | GEST PROJ
CHECKED	VÉRIFIÉ: DS		DES MGR | GEST CONC
COORDINATION: NK			FIRE | INCENDIE

WBS NO. | NO. OTP: KN229981
PF NO. | NO. DP: PF 500613544

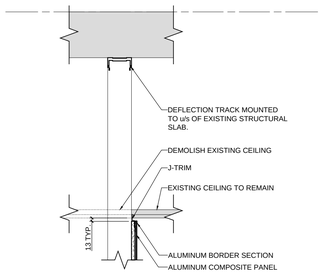
DWG. NO. | NO. DESSIN: K-K74-7701/32-318

Canada



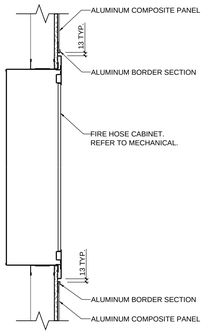
1 / 319 INTERIOR ELEVATION - TYP. FHC ENCLOSURE

SCALE: 1:20



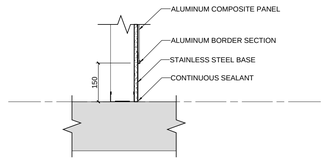
2 / 319 SECTION DETAIL - TYP. FHC ENCLOSURE - AT CEILING

SCALE: 1:10



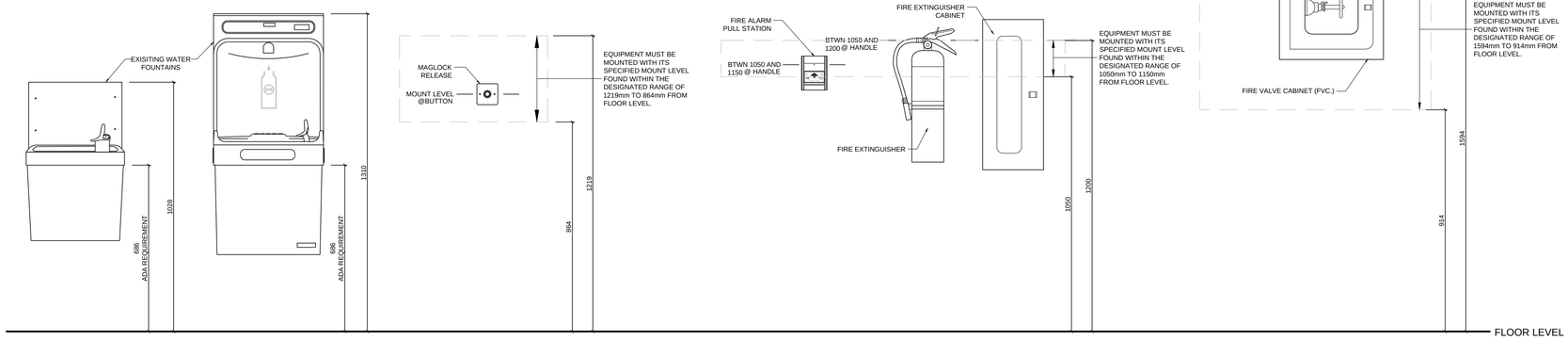
3 / 319 SECTION DETAIL - TYP. FHC ENCLOSURE

SCALE: 1:10



4 / 319 SECTION DETAIL - TYP. FHC ENCLOSURE - AT FINISH FLOOR

SCALE: 1:10



5 / 319 TYPICAL MOUNTING HEIGHTS

SCALE: 1:10

GENERAL NOTES:

- ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE.
- SITE CONFIRM ALL EXISTING CONDITIONS AND VERIFY ALL DIMENSIONS BEFORE START OF WORK.
- REFER TO MECHANICAL AND ELECTRICAL FOR EXTENT OF REMOVALS AND UPGRADES.
- CAREFULLY REMOVE AND REINSTATE EXISTING CEILINGS AS REQUIRED FOR SPRINKLER INSTALLATION. FOR ENTIRE NEW WORK, ASSUME ~1600 SQ.M. ACT REMOVAL, ~240 SQ.M. GYPSUM BOARD CEILING REMOVAL, AND ~50 SQ.M. METAL PANEL SUSPENDED CEILING REMOVAL. PATCH AND REFINISH GYPSUM BOARD CEILINGS TO MATCH ORIGINAL PAINT COLOUR, AS REQUIRED WHERE DAMAGED. PAINT COLOUR TO BE SELECTED BY DCC REPRESENTATIVE. FINAL SPRINKLER LAYOUT TO BE DETERMINED BY SPRINKLER CONTRACTOR. CONFIRM ON-SITE. NOTIFY DEPARTMENTAL REPRESENTATIVE OF ANY DISCREPANCIES.
- CAREFULLY REMOVE AND REINSTATE EXISTING LIGHTING FIXTURES AS REQUIRED FOR SPRINKLER INSTALLATION. ASSUME ~500 LIGHT FIXTURES TO BE REMOVED AND REINSTATED.
- PROVIDE NEW CUT OPENINGS IN WALLS AND FLOORS AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS. LOCATE OPENINGS TO AVOID EXISTING STRUCTURAL ELEMENTS. SEAL ALL NEW PENETRATIONS IN EXISTING WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR AFTER INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS. REFER TO MECHANICAL AND ELECTRICAL.
- SEAL ALL EXISTING PENETRATIONS IN WALLS AND FLOORS TO ACHIEVE CONTINUOUS 1 HR. FRR. WHERE REQUIRED.
- EXISTING BOOKSHELVES TO REMAIN. DO NOT MOVE OR DISTURB CONTENTS. PROVIDE PROTECTION FOR BOOKSHELVES AND THEIR CONTENTS DURING DURATION OF CONSTRUCTION. COORDINATE WITH DCC REPRESENTATIVE

WALL ASSEMBLIES:

W1
- ALUMINUM COMPOSITE PANEL
- 16mm GYPSUM BOARD SHEATHING
- 92MM STEEL STUDS @ 400MM O.C.

W2
- 16mm GYPSUM BOARD SHEATHING
- 92MM STEEL STUDS @ 400MM O.C.

W3
- ALUMINUM COMPOSITE PANEL
- 16mm GYPSUM BOARD SHEATHING
- 152mm STEEL STUDS @ 400mm O.C.

W4
- 16mm GYPSUM BOARD SHEATHING
- 152MM STEEL STUDS @ 400MM O.C.

W5
- ALUMINUM COMPOSITE PANEL
- 16mm GYPSUM BOARD SHEATHING
- 203MM STEEL STUDS @ 400MM O.C.

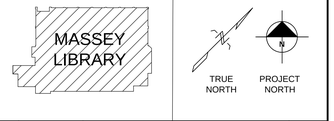
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ONTARIO ASSOCIATION OF ARCHITECTS
2025.03.30
R13 LIFE SAFETY UPGRADES



NO.	DATE	REVISION	APPR.
4.	2026-01-16	ISSUED FOR TENDER	D.S.
3.	2025-09-15	ISSUED FOR 100% REVIEW	D.S.
2.	2025-04-30	ISSUED FOR 99% REVIEW	D.S.
1.	2024-12-20	ISSUED FOR 60% REVIEW	D.S.

SCALE | ÉCHELLE
AS INDICATED
200 0 200 400 600mm

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
LIFE SAFETY UPGRADE

TRADE | MÉTIER	DATE
ARCHITECTURAL	2026-01-16

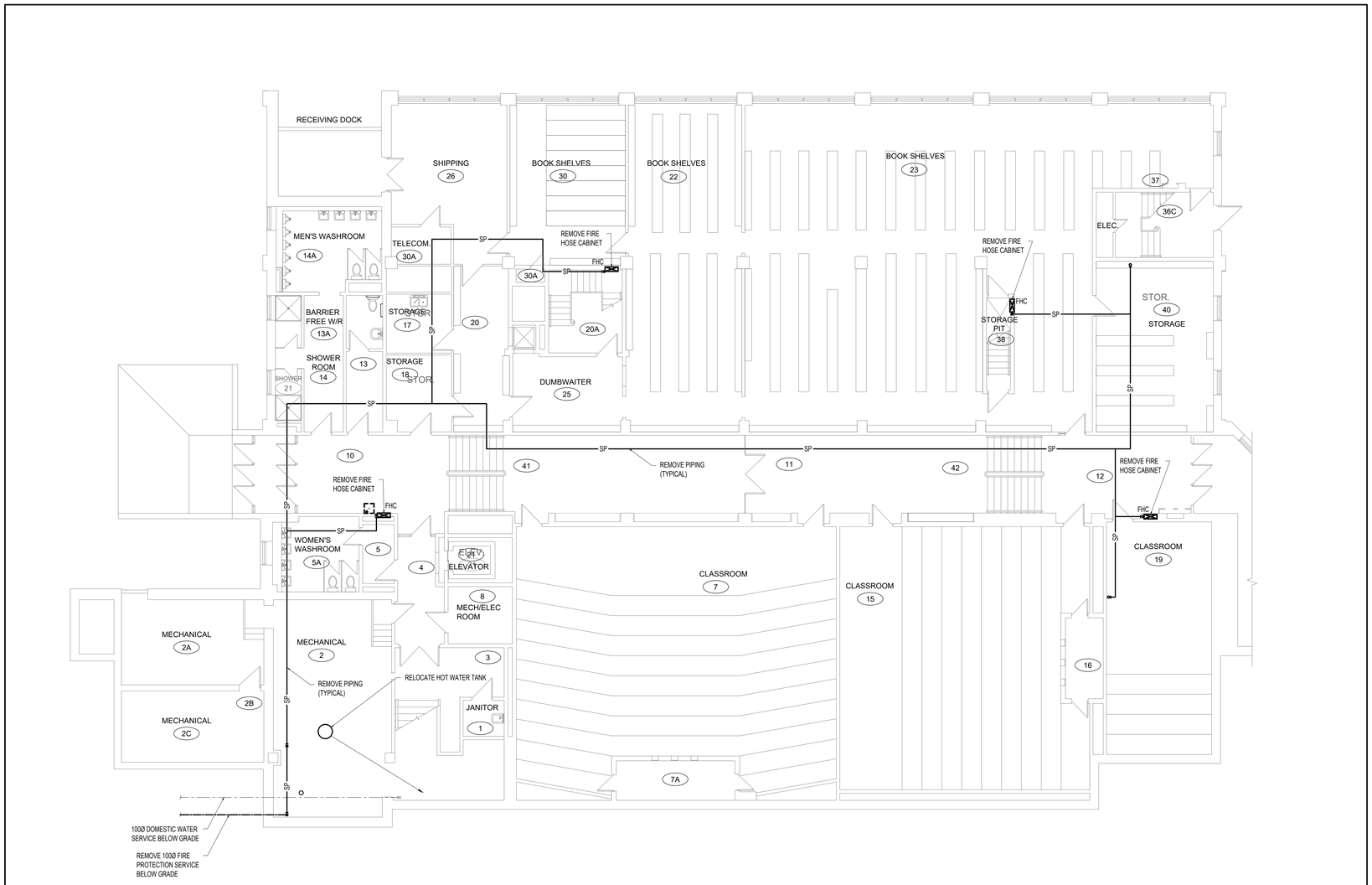
SUBJECT | SUJET
TYPICAL DETAIL SECTIONS & ELEVATIONS

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: NK		DES O | AGENT CONC
DRAWN | DESSINÉ: CS		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: DS		DES MGR | GEST CONC
COORDINATION: NK		FIRE | INCENDIE

WBS NO. | NO. OTP	PF NO. | NO. DP
KN229981	PF 500613544

DWG. NO. | NO. DESSIN
K-K74-7701/32-319

Canada



1/400 LEVEL 0 FIRE PROTECTION DEMOLITION PLAN
SCALE: 1:100

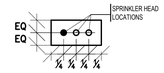
LEGEND – FIRE PROTECTION

FHC	REMOVE FIRE HOSE CABINET
SP	REMOVE STANDPIPE
	PIPE DOWN
	PIPE UP

FIRE PROTECTION

GENERAL NOTES:

1. SPRINKLER COVERAGE TO BE LIGHT HAZARD, UNLESS OTHERWISE NOTED.
2. REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR EXACT CEILING LAYOUTS.
3. REFER TO ELECTRICAL DRAWINGS FOR LIGHTING LAYOUT COORDINATION.
4. REFER TO MECHANICAL DRAWINGS FOR DIFFUSER/GRILLE LAYOUT COORDINATION.
5. SPRINKLER SYSTEM LAYOUT SHALL BE CLOSELY COORDINATED WITH DUCTWORK, PLUMBING, ELECTRICAL, STRUCTURAL, AND ARCHITECTURAL ELEMENTS. PIPING SHOWN ON DRAWINGS IS FOR GUIDANCE AND GENERAL ROUTING ONLY. SPRINKLER CONTRACTOR SHALL PROVIDE ALL NECESSARY PIPING FITTINGS REQUIRED FOR INSTALLATION.
6. SPRINKLER CONTRACTOR TO CHECK SPRINKLER COVERAGE AND PROVIDE HEADS TO MEET NFPA 13 SPACING, OBSTRUCTION RULES OR COVERAGE REQUIREMENTS.
7. WHERE SPRINKLER HEADS AND PIPING ARE NOT SHOWN, CONTRACTOR TO LAYOUT SPRINKLER HEADS AND PIPING IN ACCORDANCE WITH NFPA 13.
8. STORAGE ROOMS TO BE ORDINARY HAZARD GROUP 2.
9. NO PENETRATIONS ARE PERMITTED THROUGH BLOCK LINTELS OR BOND BEAMS, UNLESS APPROVED BY DCC REPRESENTATIVE.
10. SPRINKLER INSTALLATION TO BE CONCEALED IN AREAS WITH FINISHED CEILINGS AND EXPOSED IN AREAS OF EXPOSED CONSTRUCTION.
11. SPRINKLER HEADS TO BE RECESSED TYPE IN AREAS OF FINISHED CEILINGS AND A COMBINATION OF UPRIGHT AND PENDANT IN AREAS OF EXPOSED CONSTRUCTION.
12. SPRINKLER HEAD LOCATIONS SHOWN ARE FOR REFERENCE ONLY. REFLECTED CEILING PLANS ARE SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT CEILING LAYOUTS.
13. SPRINKLER MAINS AND BRANCH LINES ARE NOT TO BE ROUTED WHERE CABLE TRAY IS LOCATED.
14. MAINTAIN 900mm CLEARANCE FROM ALL MECHANICAL AND ELECTRICAL EQUIPMENT AND VALVES WITHIN CEILING SPACE.
15. PENDANT HEADS IN PREACTION SYSTEMS SHALL BE INSTALLED WITH RETURN BEND BRANCH PIPING.
16. CONTRACTOR SHALL COORDINATE SPRINKLER HEAD LAYOUTS WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL SYSTEMS IN ORDER TO AVOID OBSTRUCTION OF SPRINKLER HEAD. SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF TILES IN T-BAR CEILINGS IN ONE OF THE FOLLOWING LOCATIONS;



CONTRACT DRAWINGS
CONTRACT DRAWINGS FOR MECHANICAL WORK ARE IN PART DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK AND GENERAL ARRANGEMENT FOR MECHANICAL SYSTEMS AND EQUIPMENT. CONTRACTOR TO COORDINATE LAYOUT OF MECHANICAL SYSTEMS WITH ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL BUILDING COMPONENTS, AS WELL AS OTHER MECHANICAL SYSTEMS. PROVIDE ADDITIONAL PIPING, DUCTING, FITTINGS, SUPPORTS, ETC., REQUIRED TO FACILITATE THE WORK. NO EXTRA PAYMENTS ARISING FROM FAILURE TO MAKE THIS COORDINATION WILL BE CONSIDERED.

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NO.	DATE	REVISION	APPR.
4	2026-01-16	ISSUED FOR TENDER	-
3	2025-09-11	ISSUED FOR 100% REVIEW	-
2	2025-04-30	ISSUED FOR 99% SUBMISSION	-
1	2024-12-20	ISSUED FOR 60% SUBMISSION	-

SCALE | ÉCHELLE 1:100 — 2000 0 2000 4000 6000mm

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
LIFE SAFETY UPGRADES

TRADE | MÉTIER: MECHANICAL
DATE: 2026-01-16

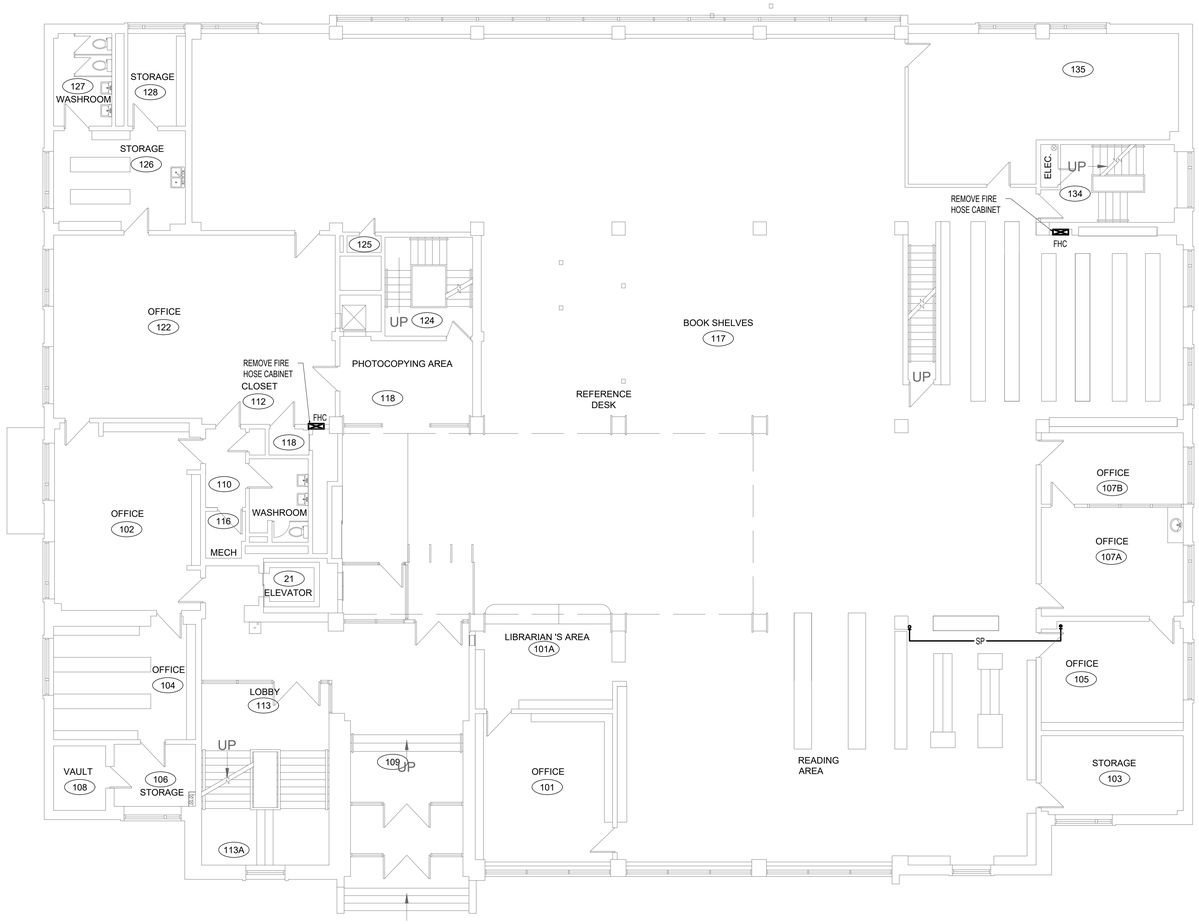
SUBJECT | SUJET
LEVEL 0
FIRE PROTECTION DEMOLITION AND GENERAL NOTES

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: AS		DES O | AGENT CONC
DRAWN | DESSINÉ: ET		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: BG		DES MGR | GEST CONC
COORDINATION		FIRE | INCENDIE

WBS NO. | NO. OTP: KN229981
PF NO. | NO. DP: PF500613544
DWG. NO. | NO. DESSIN: K-K74-7701/32 - 400

Canada

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1 / 401 LEVEL 1 FIRE PROTECTION DEMOLITION PLAN
SCALE: 1:100

LEGEND – FIRE PROTECTION

FHC	REMOVE FIRE HOSE CABINET
SP	REMOVE STANDPIPE
	PIPE DOWN
	PIPE UP

CONTRACT DRAWINGS
CONTRACT DRAWINGS FOR MECHANICAL WORK ARE IN PART DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK AND GENERAL ARRANGEMENT FOR MECHANICAL SYSTEMS AND EQUIPMENT. CONTRACTOR TO COORDINATE LAYOUT OF MECHANICAL SYSTEMS WITH ARCHITECTURAL, STRUCTURAL AND ELECTRICAL BUILDING COMPONENTS, AS WELL AS OTHER MECHANICAL SYSTEMS. PROVIDE ADDITIONAL PIPING, DUCTING, FITTINGS, SUPPORTS, ETC., REQUIRED TO FACILITATE THE WORK. NO EXTRA PAYMENTS ARISING FROM FAILURE TO MAKE THIS COORDINATION WILL BE CONSIDERED.

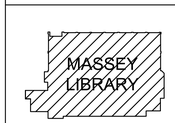
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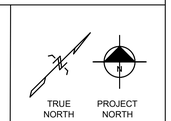
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LICENSED PROFESSIONAL ENGINEER
R. A. STEVENSON
100079603
01-16-2025
PROVINCE OF ONTARIO





NO.	DATE	REVISION	APPR.
4	2026-01-16	ISSUED FOR TENDER	-
3	2025-09-11	ISSUED FOR 100% REVIEW	-
2	2025-04-30	ISSUED FOR 99% SUBMISSION	-
1	2024-12-20	ISSUED FOR 60% SUBMISSION	-

SCALE | ÉCHELLE 1:100
2000 0 2000 4000 6000mm

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
LIFE SAFETY UPGRADES

TRADE | MÉTIER: MECHANICAL
DATE: 2026-01-16

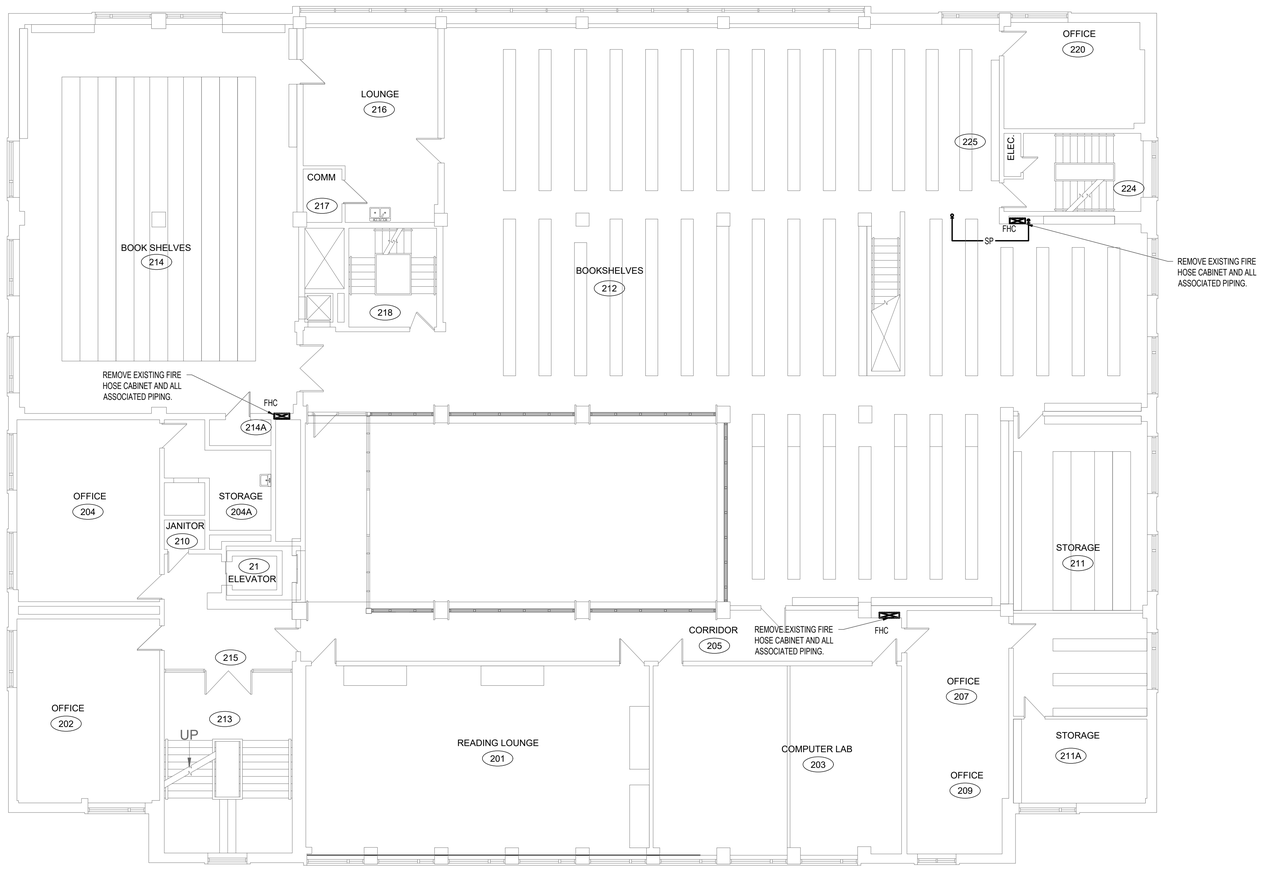
SUBJECT | SUJET
LEVEL 1
FIRE PROTECTION
DEMOLITION

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: AS		DES O | AGENT CONC
DRAWN | DESSINÉ: ET		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: BG		DES MGR | GEST CONC
COORDINATION		FIRE | INCENDIE

WBS NO. | NO. OTP: KN229981
PF NO. | NO. DP: PF500613544
DWG. NO. | NO. DESSIN: K-K74-7701/32 - 401

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1/402 LEVEL 2 FIRE PROTECTION DEMOLITION PLAN
SCALE: 1:100

LEGEND – FIRE PROTECTION

- FHC — REMOVE FIRE HOSE CABINET
- SP — REMOVE STANDPIPE
- PIPE DOWN
- PIPE UP

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LICENSED PROFESSIONAL ENGINEER
R. A. STEVENSON
100079809
01-16-2025
PROVINCE OF ONTARIO

MASSEY LIBRARY

TRUE NORTH
PROJECT NORTH

NO.	DATE	REVISION	APPR.
4	2026-01-16	ISSUED FOR TENDER	-
3	2025-09-11	ISSUED FOR 100% REVIEW	-
2	2025-04-30	ISSUED FOR 99% SUBMISSION	-
1	2024-12-20	ISSUED FOR 60% SUBMISSION	-

SCALE | ÉCHELLE 1:100
2000 0 2000 4000 6000mm

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
LIFE SAFETY UPGRADES

TRADE | MÉTIER	DATE
MECHANICAL	2026-01-16

SUBJECT | SUJET
LEVEL 2
FIRE PROTECTION
DEMOLITION

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: AS		DES O | AGENT CONC
DRAWN | DESSINÉ: ET		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: BG		DES MGR | GEST CONC
COORDINATION		FIRE | INCENDIE

CONTRACT DRAWINGS
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WBS NO. | NO. OTP	PF NO. | NO. DP
KN229981	PF500613544

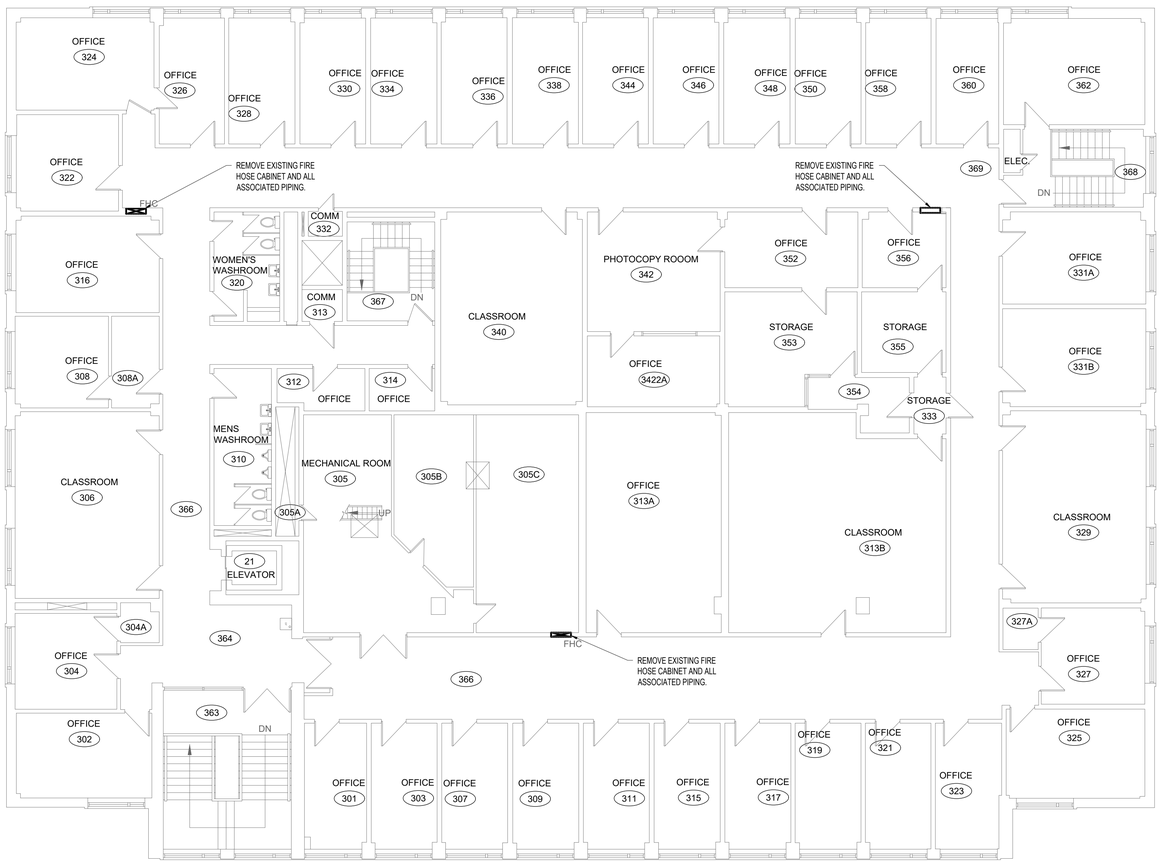
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Sheet # of

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SHEET: Arch D - PLOTTED ON: January 16, 2026 2:29:19 PM - BY: TAYLOR, ERIC



1 / 403 LEVEL 3 FIRE PROTECTION DEMOLITION PLAN
SCALE: 1:100

LEGEND – FIRE PROTECTION

FHC	REMOVE FIRE HOSE CABINET
SP	REMOVE STANDPIPE
	PIPE DOWN
	PIPE UP

CONTRACT DRAWINGS
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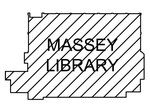
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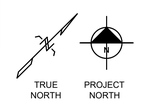
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3	2025-09-11	ISSUED FOR 100% REVIEW	-
2	2025-04-30	ISSUED FOR 99% SUBMISSION	-
1	2024-12-20	ISSUED FOR 60% SUBMISSION	-

SCALE | ÉCHELLE 1:100 (2000 0 2000 4000 6000mm)

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
LIFE SAFETY UPGRADES

TRADE | MÉTIER	DATE
MECHANICAL	2026-01-16

SUBJECT | SUJET
LEVEL 3
FIRE PROTECTION
DEMOLITION

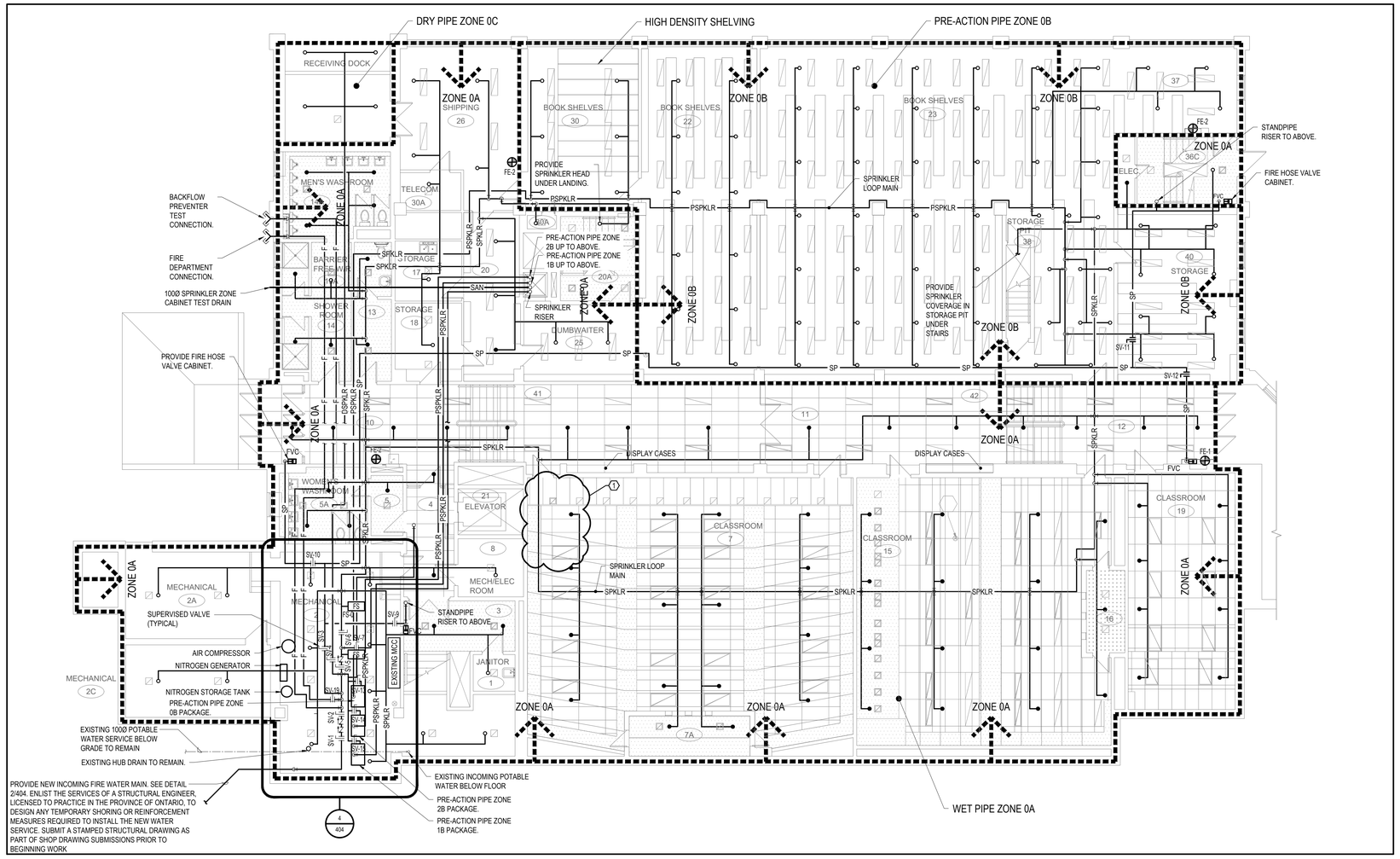
PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: AS		DES O | AGENT CONC
DRAWN | DESSINÉ: ET		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: BG		DES MGR | GEST CONC
COORDINATION		FIRE | INCENDIE

WBS NO. | NO. OTP	PF NO. | NO. DP
KN229981	PF500613544

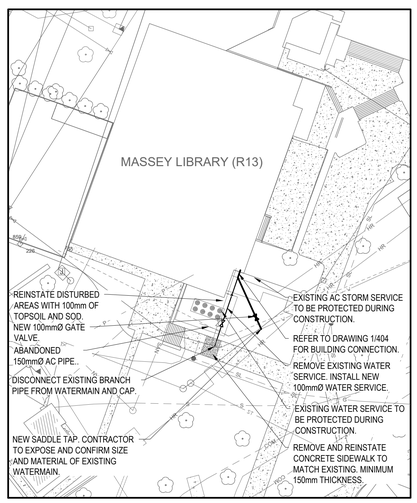
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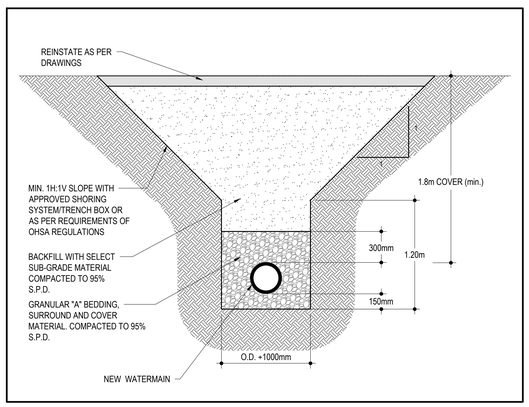
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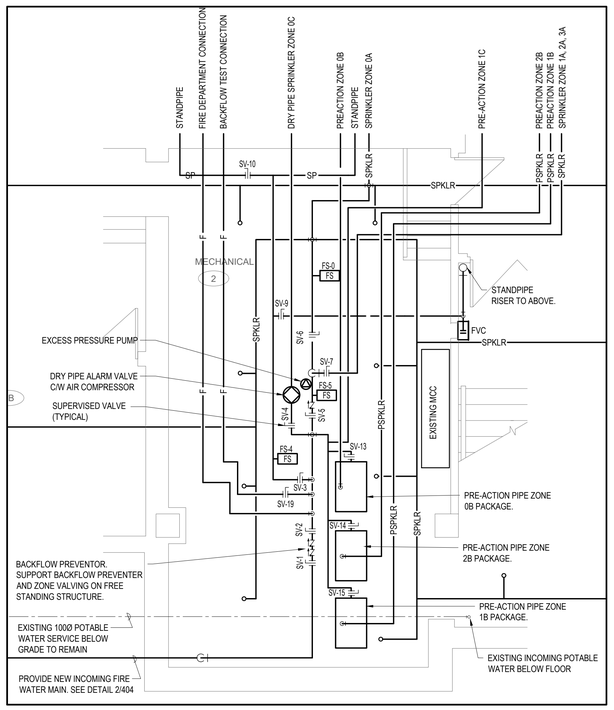
1/404 LEVEL 0 FIRE PROTECTION
SCALE:1:100



2/404 WATER SERVICE REPLACEMENT
SCALE: 1:500 NOT FOR CONSTRUCTION



3/404 WATER SERVICE TRENCH DETAIL
SCALE: 1:25 NOT FOR CONSTRUCTION

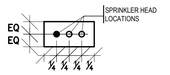


4/404 MECHANICAL ROOM 2 FIRE PROTECTION LAYOUT
SCALE: 1:50

LEGEND - FIRE PROTECTION

FVC	FIRE HOSE VALVE CABINET
FE-1	RECESSED CABINET PORTABLE MULTI PURPOSE FIRE EXTINGUISHER
FE-2	SURFACE MOUNT PORTABLE MULTI PURPOSE FIRE EXTINGUISHER c/w BRACKET
X X	REMOVE PIPING/EQUIPMENT
SPKLR	SPRINKLER PIPE (WET)
PSPKLR	SPRINKLER PIPE (PRE-ACTION)
DSPKLR	SPRINKLER PIPE (DRY)
SP	STANDPIPE
CA	CLEAN AGENT PIPING
F	FIRE PROTECTION PIPE
	GATE VALVE
SV-*	SUPERVISED GATE VALVE
	BUTTERFLY VALVE
SV-*	SUPERVISED BUTTERFLY VALVE
	BALL VALVE
SV-*	SUPERVISED BALL VALVE
	CHECK VALVE
	UNION
	FLANGE
	PRESSURE GAUGE
	UPRIGHT SPRINKLER HEAD
	PENDANT SPRINKLER HEAD
	CLEAN AGENT HEAD
FS	FLOW SWITCH
TD	TEST AND DRAIN DEVICE
	ZONE BORDER

GENERAL NOTES:
1. SPRINKLER COVERAGE TO BE LIGHT HAZARD, UNLESS OTHERWISE NOTED.
2. REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR EXACT CEILING LAYOUTS.
3. REFER TO ELECTRICAL DRAWINGS FOR LIGHTING LAYOUT COORDINATION.
4. REFER TO MECHANICAL DRAWINGS FOR DIFFUSER/GRILLE LAYOUT COORDINATION.
5. SPRINKLER SYSTEM LAYOUT SHALL BE CLOSELY COORDINATED WITH DUCTWORK, PLUMBING, ELECTRICAL, STRUCTURAL, AND ARCHITECTURAL ELEMENTS. PIPING SHOWN ON DRAWINGS IS FOR GUIDANCE AND GENERAL ROUTING ONLY. SPRINKLER CONTRACTOR SHALL PROVIDE ALL NECESSARY PIPING FITTINGS REQUIRED FOR INSTALLATION.
6. SPRINKLER CONTRACTOR TO CHECK SPRINKLER COVERAGE AND PROVIDE HEADS TO MEET NFPA 13 SPACING, OBSTRUCTION RULES OR COVERAGE REQUIREMENTS.
7. WHERE SPRINKLER HEADS AND PIPING ARE NOT SHOWN, CONTRACTOR TO LAYOUT SPRINKLER HEADS AND PIPING IN ACCORDANCE WITH NFPA 13.
8. STORAGE ROOMS TO BE ORDINARY HAZARD GROUP 2.
9. NO PENETRATIONS ARE PERMITTED THROUGH BLOCK LINTELS OR BOND BEAMS, UNLESS APPROVED BY DCC REPRESENTATIVE. SPRINKLER INSTALLATION TO BE CONCEALED IN AREAS WITH FINISHED CEILINGS AND EXPOSED IN AREAS OF EXPOSED CONSTRUCTION.
10. SPRINKLER HEADS TO BE RECESSED TYPE IN AREAS OF FINISHED CEILINGS AND A COMBINATION OF UPRIGHT AND PENDANT IN AREAS OF EXPOSED CONSTRUCTION.
11. SPRINKLER HEAD LOCATIONS SHOWN ARE FOR REFERENCE ONLY. REFLECTED CEILING PLANS ARE SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT CEILING LAYOUTS.
12. SPRINKLER MAINS AND BRANCH LINES ARE NOT TO BE ROUTED WHERE CABLE TRAY IS LOCATED.
13. MAINTAIN 900mm CLEARANCE FROM ALL MECHANICAL AND ELECTRICAL EQUIPMENT AND VALVES WITHIN CEILING SPACE.
14. PENDANT HEADS IN PREACTION SYSTEMS SHALL BE INSTALLED WITH RETURN BEND BRANCH PIPING.
15. CONTRACTOR SHALL COORDINATE SPRINKLER HEAD LAYOUTS WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL SYSTEMS IN ORDER TO AVOID OBSTRUCTION OF SPRINKLER HEAD. SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF TILES IN T-BAR CEILINGS. I.COORDINATE SPRINKLER HEAD LAYOUT TO MAINTAIN REQUIRED CLEARANCES ABOVE LIBRARY SHELVING SYSTEMS. PROVIDE ADDITIONAL COVERAGE WHERE REQUIRED TO MEET NFPA 13. REFER TO ARCHITECTURAL FOR SHELVING LAYOUTS.
16. REFER TO ARCHITECTURAL FOR HIGH DENSITY SHELVING LAYOUTS & LOCATIONS. PROVIDE ADEQUATE COVERAGE TO MEET NFPA 13 REQUIREMENTS.



DRAWING NOTES
1 COORDINATE WITH WORK UNDERTAKEN IN THIS AREA UNDER A SEPARATE CONTRACT

CONTRACT DRAWINGS
CONTRACT DRAWINGS FOR MECHANICAL WORK ARE IN PART DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK AND GENERAL ARRANGEMENT FOR MECHANICAL SYSTEMS AND EQUIPMENT. CONTRACTOR TO COORDINATE LAYOUT OF MECHANICAL SYSTEMS WITH ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL BUILDING COMPONENTS, AS WELL AS OTHER MECHANICAL SYSTEMS. PROVIDE ADDITIONAL PIPING, DUCTING, FITTINGS, SUPPORTS, ETC., REQUIRED TO FACILITATE THE WORK. NO EXTRA PAYMENTS ARISING FROM FAILURE TO MAKE THIS COORDINATION WILL BE CONSIDERED.

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LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
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NO.	DATE	REVISION	APPR.
4	2026-01-16	ISSUED FOR TENDER	-
3	2025-09-11	ISSUED FOR 100% REVIEW	-
2	2025-04-30	ISSUED FOR 99% SUBMISSION	-
1	2024-12-20	ISSUED FOR 60% SUBMISSION	-

SCALE | ÉCHELLE 1:100
2000 0 2000 4000 6000mm

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
LIFE SAFETY UPGRADES

TRADE | MÉTIER: MECHANICAL
DATE: 2026-01-16

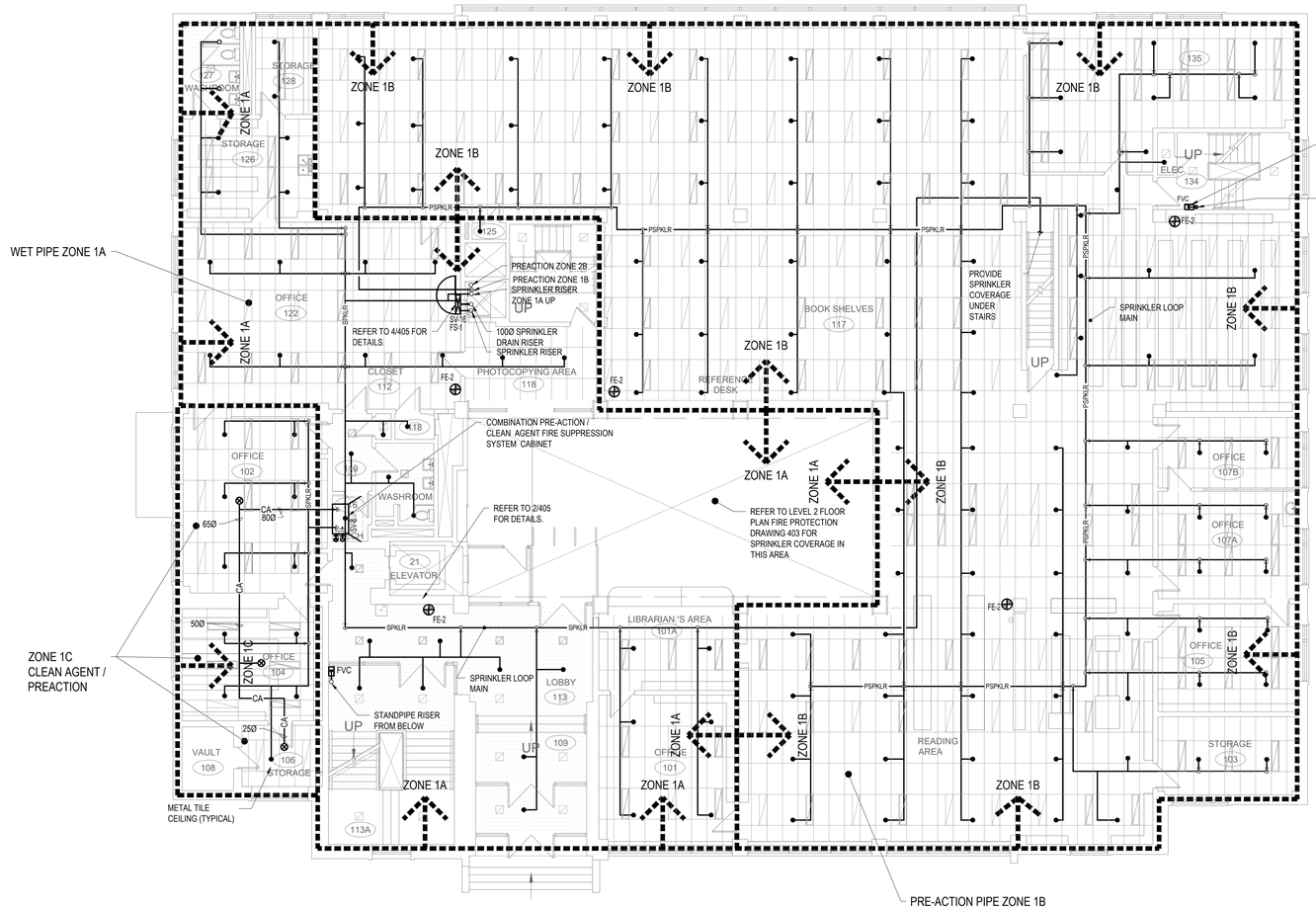
SUBJECT | SUJET
LEVEL 0
FIRE PROTECTION AND
GENERAL NOTES

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DRAWN | DESSINÉ: ET		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: BG		DES MGR | GEST CONC
COORDINATION		FIRE | INCENDIE

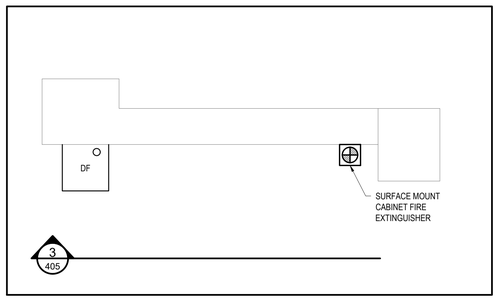
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PF NO. | NO. DP: PF500613544
DWG. NO. | NO. DESSIN: K-K74-7701/32 - 404

Canada

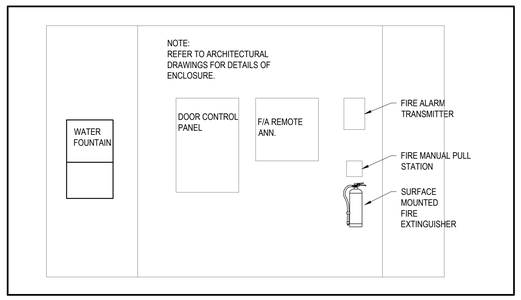
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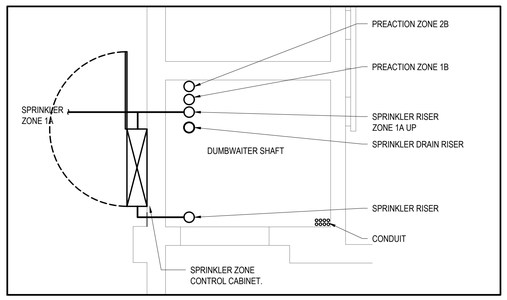
1 405 LEVEL 1 FIRE PROTECTION
SCALE: 1:100



2 405 LOBBY PARTIAL FLOOR PLAN
SCALE: 1:25



3 405 LOBBY PARTIAL ELEVATION
SCALE: 1:25



4 405 LEVEL 1 PIPING CHASE DETAIL
SCALE: 1:25

LEGEND - FIRE PROTECTION

FVC	FIRE HOSE VALVE CABINET
FE-1	RECESSED CABINET PORTABLE MULTI PURPOSE FIRE EXTINGUISHER
FE-2	SURFACE MOUNT PORTABLE MULTI PURPOSE FIRE EXTINGUISHER c/w BRACKET
X X	REMOVE PIPING/EQUIPMENT
SPKLR	SPRINKLER PIPE (WET)
PSPKLR	SPRINKLER PIPE (PRE-ACTION)
DSPKLR	SPRINKLER PIPE (DRY)
SP	STANDPIPE
CA	CLEAN AGENT PIPING
F	FIRE PROTECTION PIPE
	GATE VALVE
SV-*	SUPERVISED GATE VALVE
	BUTTERFLY VALVE
SV-*	SUPERVISED BUTTERFLY VALVE
	BALL VALVE
SV-*	SUPERVISED BALL VALVE
	CHECK VALVE
	UNION
	FLANGE
	PRESSURE GAUGE
	UPRIGHT SPRINKLER HEAD
	PENDANT SPRINKLER HEAD
	CLEAN AGENT HEAD
FS	FLOW SWITCH
TD	TEST AND DRAIN DEVICE
	ZONE BORDER

CONTRACT DRAWINGS
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R.A. STEVENSON
100078809
01-16-2025
LICENSED PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO

MASSEY LIBRARY

TRUE NORTH / PROJECT NORTH

NO.	DATE	REVISION	APPR.
4	2026-01-16	ISSUED FOR TENDER	-
3	2025-09-11	ISSUED FOR 100% REVIEW	-
2	2025-04-30	ISSUED FOR 99% SUBMISSION	-
1	2024-12-20	ISSUED FOR 60% SUBMISSION	-

SCALE | ÉCHELLE
1:100
2000 0 2000 4000 6000mm

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
LIFE SAFETY UPGRADES

TRADE | MÉTIER: MECHANICAL
DATE: 2026-01-16

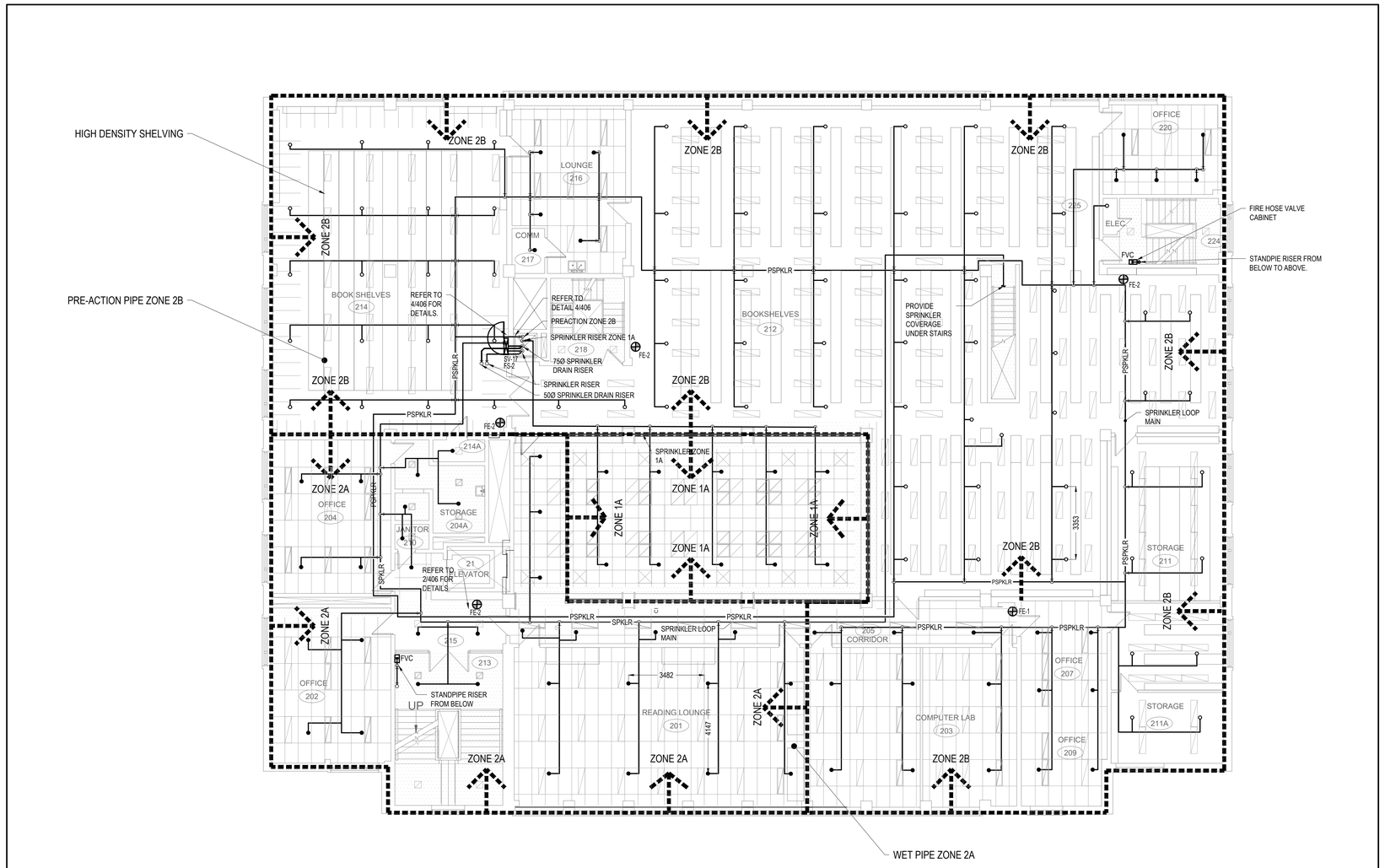
SUBJECT | SUJET
LEVEL 1
FIRE PROTECTION

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DRAWN | DESSINÉ: ET		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: BG		DES MGR | GEST CONC
COORDINATION		FIRE | INCENDIE

WBS NO. | NO. OTP: KN229981
PF NO. | NO. DP: PF500613544
DWG. NO. | NO. DESSIN: K-K74-7701/32 - 405

Canada

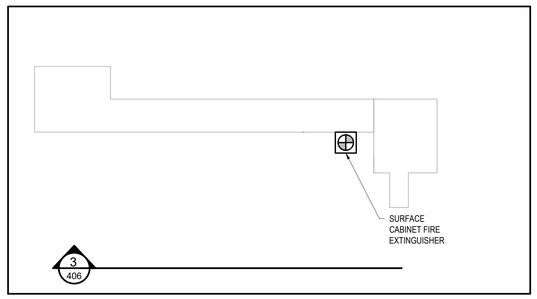
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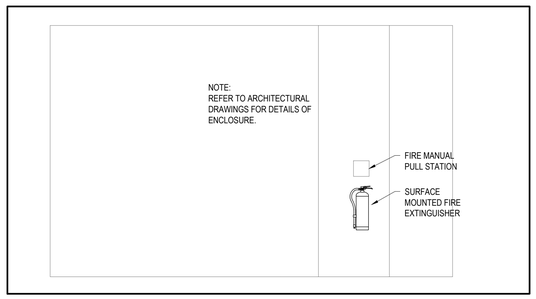
1 406 LEVEL 2 FIRE PROTECTION
SCALE:1:100

LEGEND - FIRE PROTECTION

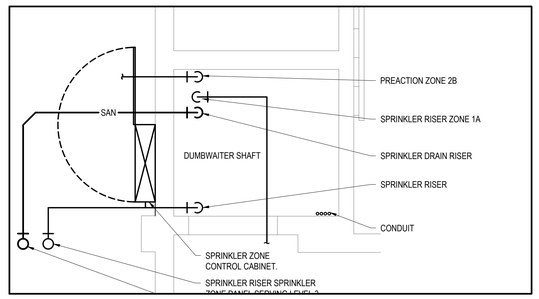
FVC	FIRE HOSE VALVE CABINET
FE-1	RECESSED CABINET PORTABLE MULTI PURPOSE FIRE EXTINGUISHER
FE-2	SURFACE MOUNT PORTABLE MULTI PURPOSE FIRE EXTINGUISHER c/w BRACKET
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SPKLR	SPRINKLER PIPE (WET)
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DSPKLR	SPRINKLER PIPE (DRY)
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SV-*	SUPERVISED GATE VALVE
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	BALL VALVE
SV-*	SUPERVISED BALL VALVE
	CHECK VALVE
	UNION
	FLANGE
	PRESSURE GAUGE
	UPRIGHT SPRINKLER HEAD
	PENDANT SPRINKLER HEAD
	CLEAN AGENT HEAD
FS	FLOW SWITCH
TD	TEST AND DRAIN DEVICE
	ZONE BORDER



2 406 LEVEL 2 PARTIAL FLOOR PLAN
SCALE:1:25



3 406 LEVEL 2 PARTIAL ELEVATION
SCALE: 1:25



4 406 LEVEL 2 PIPING CHASE DETAIL
SCALE: 1:25

CONTRACT DRAWINGS
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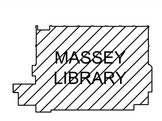
Government of Canada / Gouvernement du Canada

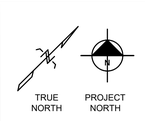
LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
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NO.	DATE	REVISION	APPR.
4	2026-01-16	ISSUED FOR TENDER	-
3	2025-09-11	ISSUED FOR 100% REVIEW	-
2	2025-04-30	ISSUED FOR 99% SUBMISSION	-
1	2024-12-20	ISSUED FOR 60% SUBMISSION	-

SCALE | ÉCHELLE 1:100 — 2000 0 2000 4000 6000mm

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
LIFE SAFETY UPGRADES

TRADE | MÉTIER	DATE
MECHANICAL	2026-01-16

SUBJECT | SUJET
LEVEL 2
FIRE PROTECTION

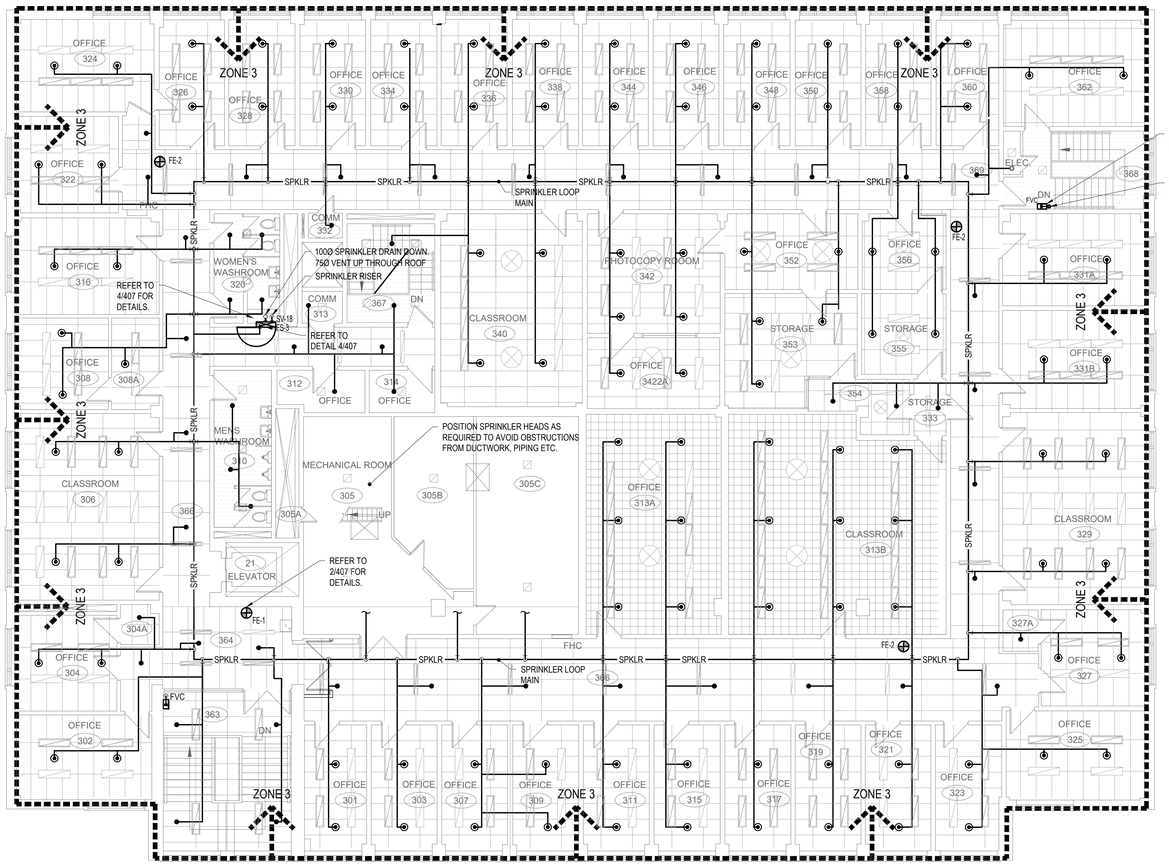
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DRAWN | DESSINÉ: ET		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: BG		DES MGR | GEST CONC
COORDINATION		FIRE | INCENDIE

WBS NO. | NO. OTP	PF NO. | NO. DP
KN229981	PF500613544

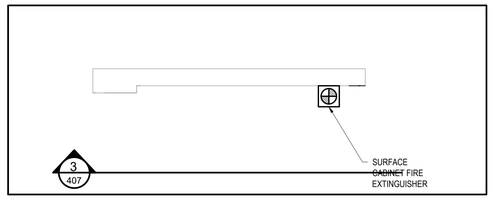
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K-K74-7701/32 - 406

Canada

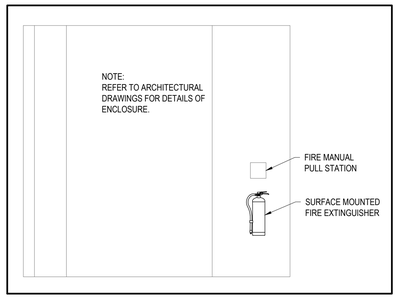
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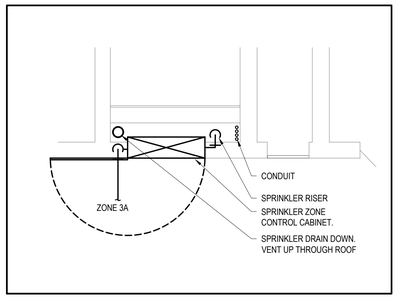
1 / 407 LEVEL 3 FIRE PROTECTION
SCALE:1:100



2 / 407 LEVEL 3 PARTIAL FLOOR PLAN
SCALE:1:25



3 / 407 LEVEL 3 PARTIAL ELEVATION
SCALE:1:25



4 / 407 LEVEL 3 PARTIAL ELEVATION
SCALE:1:25

LEGEND - FIRE PROTECTION

FVC	FIRE HOSE VALVE CABINET
FE-1	RECESSED CABINET PORTABLE MULTI PURPOSE FIRE EXTINGUISHER
FE-2	SURFACE MOUNT PORTABLE MULTI PURPOSE FIRE EXTINGUISHER c/w BRACKET
X X	REMOVE PIPING/EQUIPMENT
SPKLR	SPRINKLER PIPE (WET)
PSPKLR	SPRINKLER PIPE (PRE-ACTION)
DSPKLR	SPRINKLER PIPE (DRY)
SP	STANDPIPE
CA	CLEAN AGENT PIPING
F	FIRE PROTECTION PIPE
	GATE VALVE
SV-*	SUPERVISED GATE VALVE
	BUTTERFLY VALVE
SV-*	SUPERVISED BUTTERFLY VALVE
	BALL VALVE
SV-*	SUPERVISED BALL VALVE
	CHECK VALVE
	UNION
	FLANGE
	PRESSURE GAUGE
	UPRIGHT SPRINKLER HEAD
	PENDANT SPRINKLER HEAD
	CLEAN AGENT HEAD
FS	FLOW SWITCH
TD	TEST AND DRAIN DEVICE
	ZONE BORDER

CONTRACT DRAWINGS
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LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
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LICENSED PROFESSIONAL ENGINEER
R. A. STEVENSON
100079809
01-16-2025
PROVINCE OF ONTARIO

MASSEY LIBRARY

TRUE NORTH / PROJECT NORTH

NO.	DATE	REVISION	APPR.
4	2026-01-16	ISSUED FOR TENDER	-
3	2025-09-11	ISSUED FOR 100% REVIEW	-
2	2025-04-30	ISSUED FOR 99% SUBMISSION	-
1	2024-12-20	ISSUED FOR 60% SUBMISSION	-

SCALE | ÉCHELLE 1:100 (2000 0 2000 4000 6000mm)

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
LIFE SAFETY UPGRADES

TRADE | MÉTIER: MECHANICAL
DATE: 2026-01-16

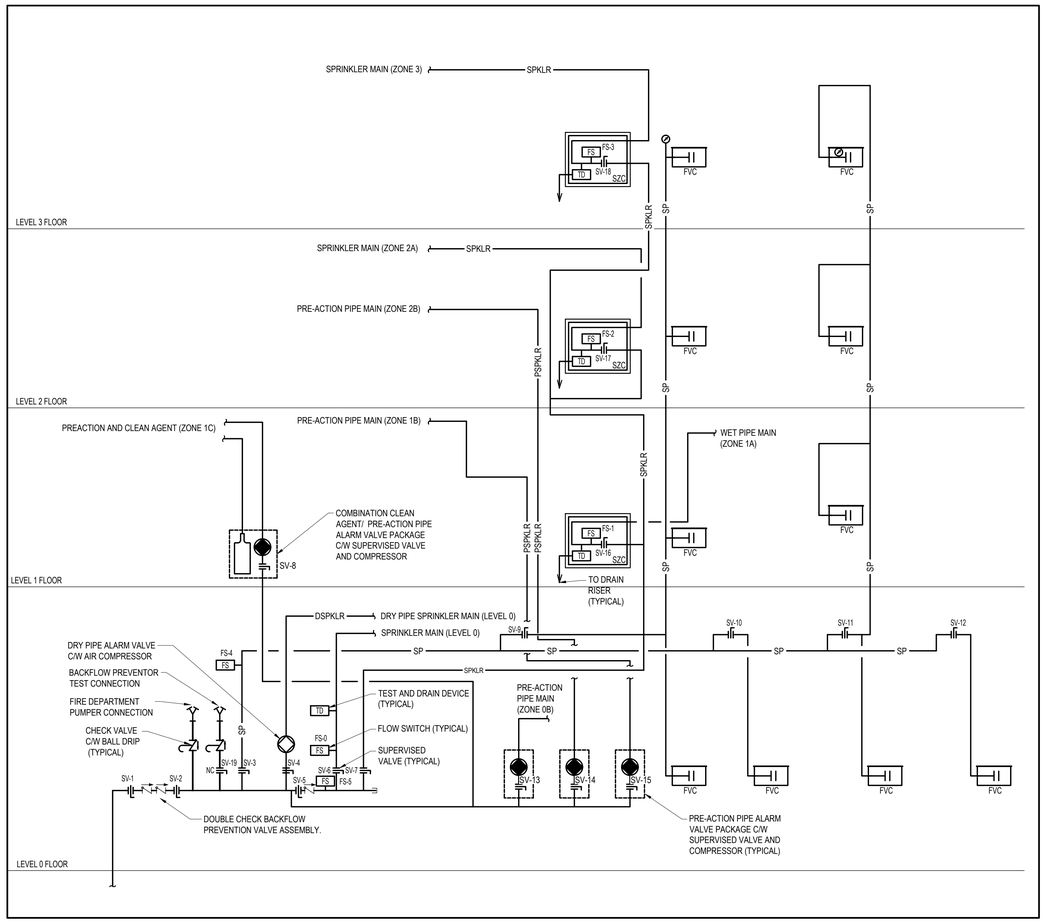
SUBJECT | SUJET
LEVEL 3
FIRE PROTECTION

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: AS		DES O | AGENT CONC
DRAWN | DESSINÉ: ET		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: BG		DES MGR | GEST CONC
COORDINATION		FIRE | INCENDIE

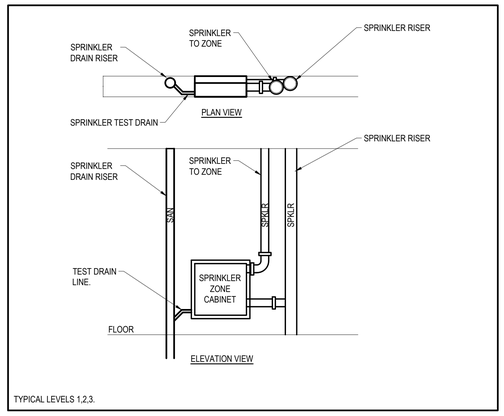
WBS NO. | NO. OTP: KN229981
PF NO. | NO. DP: PF500613544
DWG. NO. | NO. DESSIN: K-K74-7701/32 - 407

Canada

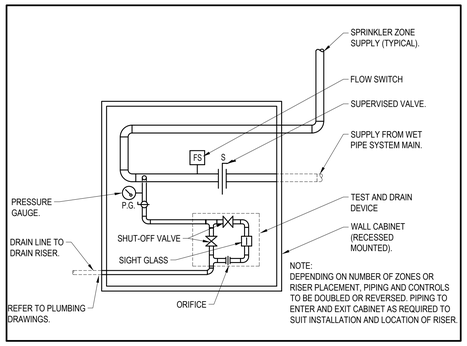
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SHEET: Arch D - PLOTTED ON: January 16, 2026 2:29:30 PM - BY: TAYLOR, ERIC



1 / 408 FIRE PROTECTION RISER SCEHMATIC
SCALE N.T.S.



2 / 408 FIRE AND ZONE CONTROL CABINET DETAIL
SCALE N.T.S.



3 / 408 ZONE CONTROL CABINET DETAIL
SCALE N.T.S.

LEGEND - FIRE PROTECTION

FVC	FIRE HOSE VALVE CABINET
FHC	2 1/2" FIRE HOSE VALVE
SPKLR	SPRINKLER PIPE
PSPKLR	SPRINKLER PIPE (PRE-ACTION)
DSPKLR	SPRINKLER PIPE (DRY)
SP	STANDPIPE
SAN	SANITARY PIPING (SAN)
SAN	SANITARY PIPING UNDER SLAB/FLOOR (SAN)
	SHUT-OFF VALVE
SV-*	SUPERVISED BUTTERFLY VALVE
	BALL VALVE
	CHECK VALVE C/W BALL DRIP
	PRESSURE GAUGE
	FIRE DEPARTMENT CONNECTION
	PIPE CAP
	SIGHT GLASS
	DRY PIPE ALARM C/W AIR COMPRESSOR
	WET PIPE ALARM VALVE C/W EXCESS PRESSURE PUMP
SV-*	PRE-ACTION PIPE ALARM VALVE PACKAGE
FS	FLOW SWITCH
TD	TEST AND DRAIN DEVICE

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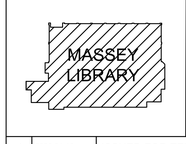
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LICENSED PROFESSIONAL ENGINEER
R. A. STEVENSON
100079809
01-16-2025
PROVINCE OF ONTARIO



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SCALE | ÉCHELLE 1:100
2000 0 2000 4000 6000mm

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
LIFE SAFETY UPGRADES

TRADE | MÉTIER: MECHANICAL
DATE: 2026-01-16

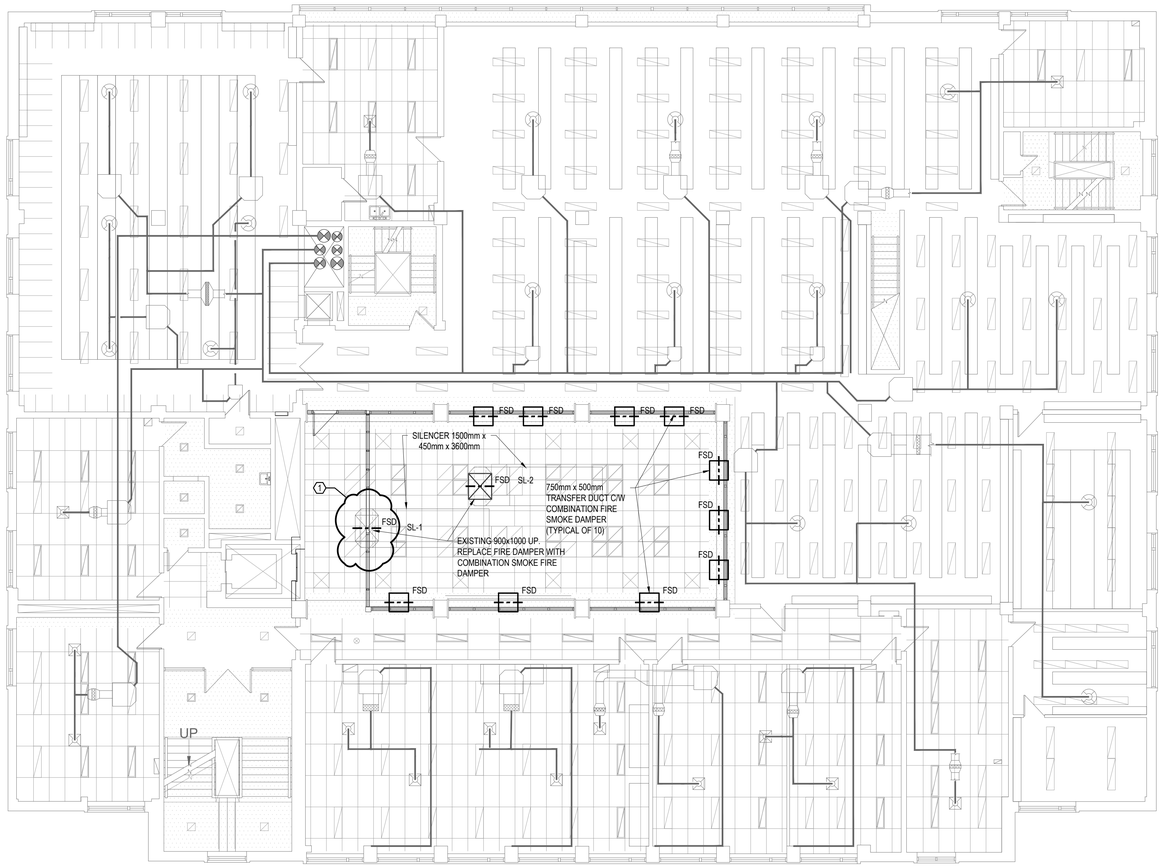
SUBJECT | SUJET
FIRE PROTECTION
RISER AND DETAILS

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: AS		DES O | AGENT CONC
DRAWN | DESSINÉ: ET		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: BG		DES MGR | GEST CONC
COORDINATION		FIRE | INCENDIE

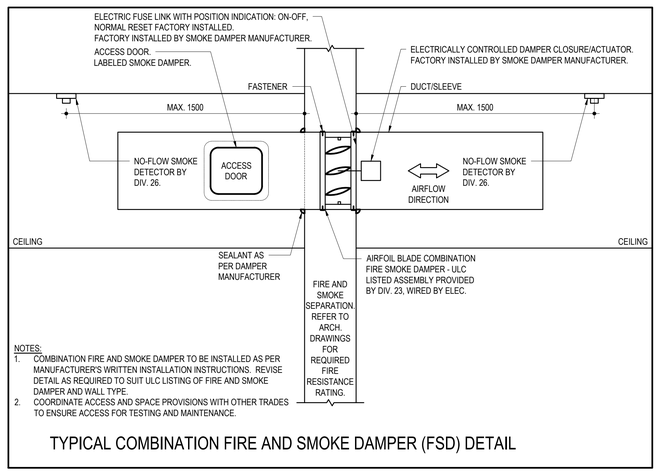
WBS NO. | NO. OTP: KN229981
PF NO. | NO. DP: PF500613544
DWG. NO. | NO. DESSIN: K-K74-7701/32 - 408

Canada

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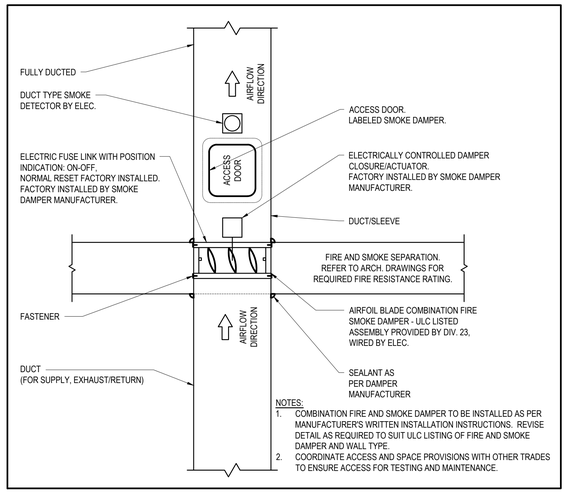


1 409 LEVEL 2 HVAC LAYOUT
SCALE:1:100



TYPICAL COMBINATION FIRE AND SMOKE DAMPER (FSD) DETAIL

2 409 COMBINATION FIRE SMOKE DAMPER DETAIL
DUCTWORK THROUGH VERTICAL FIRE SEPARATION (TRANSFER)
SCALE:NTS



3 409 COMBINATION FIRE SMOKE DAMPER DETAIL
DUCTWORK THROUGH HORIZONTAL FIRE SEPARATION (FULLY DUCTED)
SCALE:NTS

HVAC LEGEND

- EXISTING RECTANGULAR DUCTWORK
- RECTANGULAR / ROUND SUPPLY DUCT UP
- RECTANGULAR / ROUND RETURN DUCT UP
- RECTANGULAR / ROUND SUPPLY DUCT DOWN
- RECTANGULAR / ROUND RETURN DUCT DOWN
- FSD FIRE SMOKE DAMPER

DRAWING NOTES

1 COORDINATE WITH WORK UNDERTAKEN IN THIS AREA UNDER A SEPARATE CONTRACT

CONTRACT DRAWINGS
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LICENSED PROFESSIONAL ENGINEER
R. A. STEVENSON
100079809
01-16-2025
PROVINCE OF ONTARIO

MASSEY LIBRARY

TRUE NORTH
PROJECT NORTH

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SCALE | ÉCHELLE 1:100
2000 0 2000 4000 6000mm

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
LIFE SAFETY UPGRADES

TRADE | MÉTIER: MECHANICAL
DATE: 2026-01-16

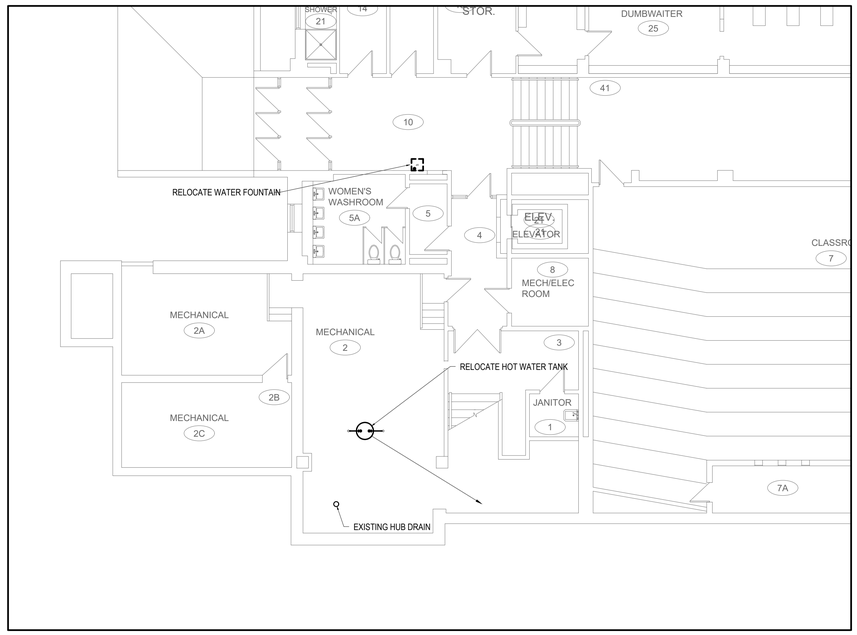
SUBJECT | SUJET
LEVEL 2 HVAC LAYOUT
AND DETAILS

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: AS		DES O | AGENT CONC
DRAWN | DESSINÉ: ET		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: BG		DES MGR | GEST CONC
COORDINATION		FIRE | INCENDIE

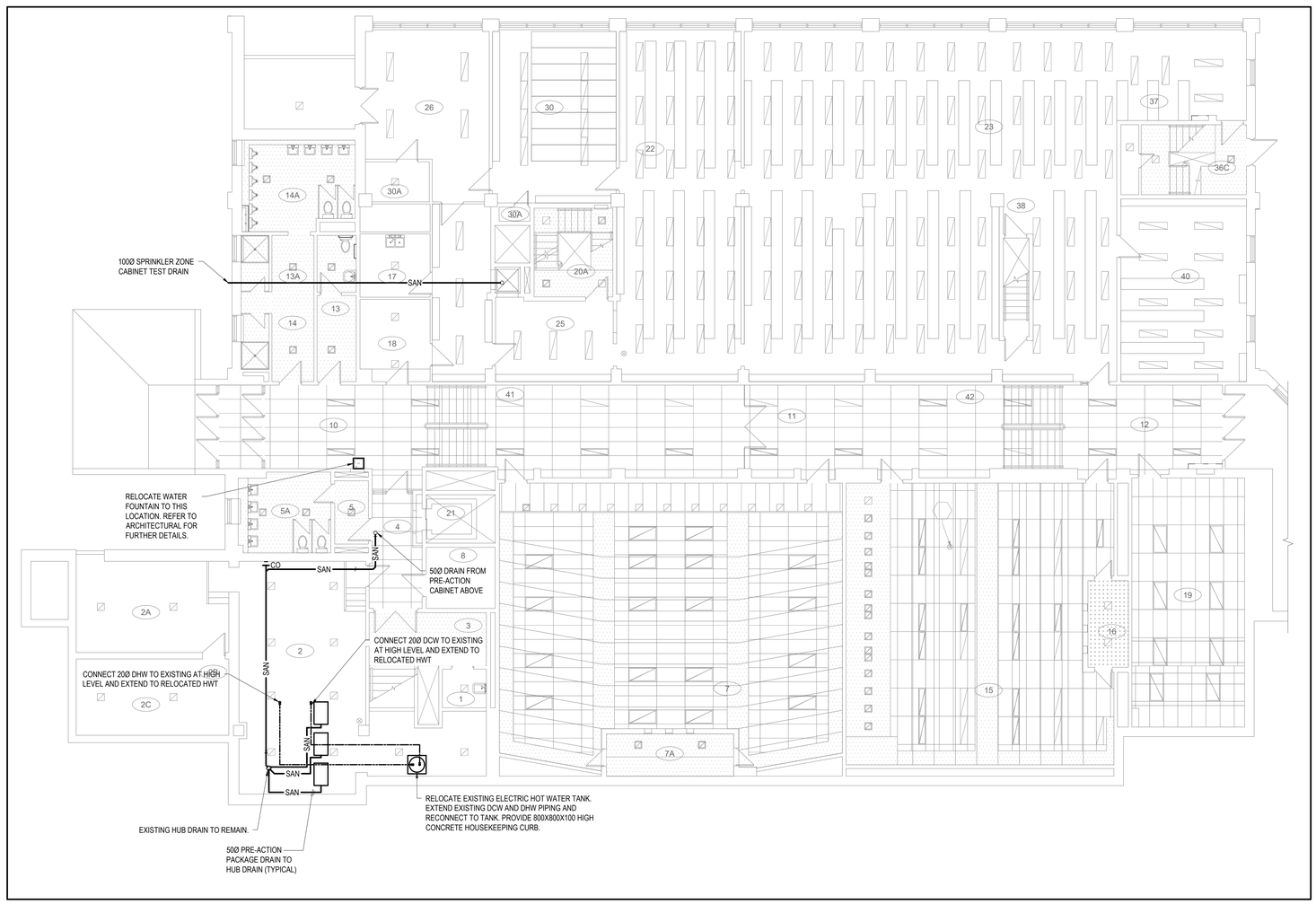
WBS NO. | NO. OTP: KN229981
PF NO. | NO. DP: PF500613544
DWG. NO. | NO. DESSIN: K-K74-7701/32 - 409

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1 410 LEVEL 0 PLUMBING DEMOLITION PLAN
SCALE:1:100



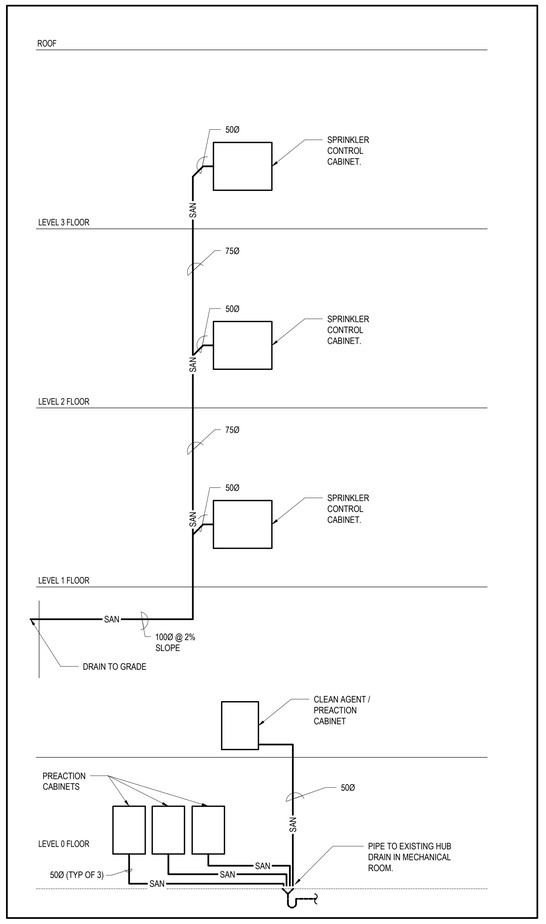
2 410 LEVEL 0 PLUMBING LAYOUT
SCALE:1:100

HVAC LEGEND

- EXISTING RECTANGULAR DUCTWORK
- RECTANGULAR / ROUND SUPPLY DUCT UP
- RECTANGULAR / ROUND RETURN DUCT UP
- RECTANGULAR / ROUND SUPPLY DUCT DOWN
- RECTANGULAR / ROUND RETURN DUCT DOWN
- FSD FIRE SMOKE DAMPER

DRAWING NOTES

1. COORDINATE WITH WORK UNDERTAKEN IN THIS AREA UNDER A SEPARATE CONTRACT



3 410 DRAIN RISER SCHEMATIC
SCALE:N.T.S.

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LICENSED PROFESSIONAL ENGINEER
R. A. STEVENSON
100079809
01-16-2025
PROVINCE OF ONTARIO

MASSEY LIBRARY

TRUE NORTH / PROJECT NORTH

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SCALE | ÉCHELLE 1:100 — 2000 0 2000 4000 6000mm

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
LIFE SAFETY UPGRADES

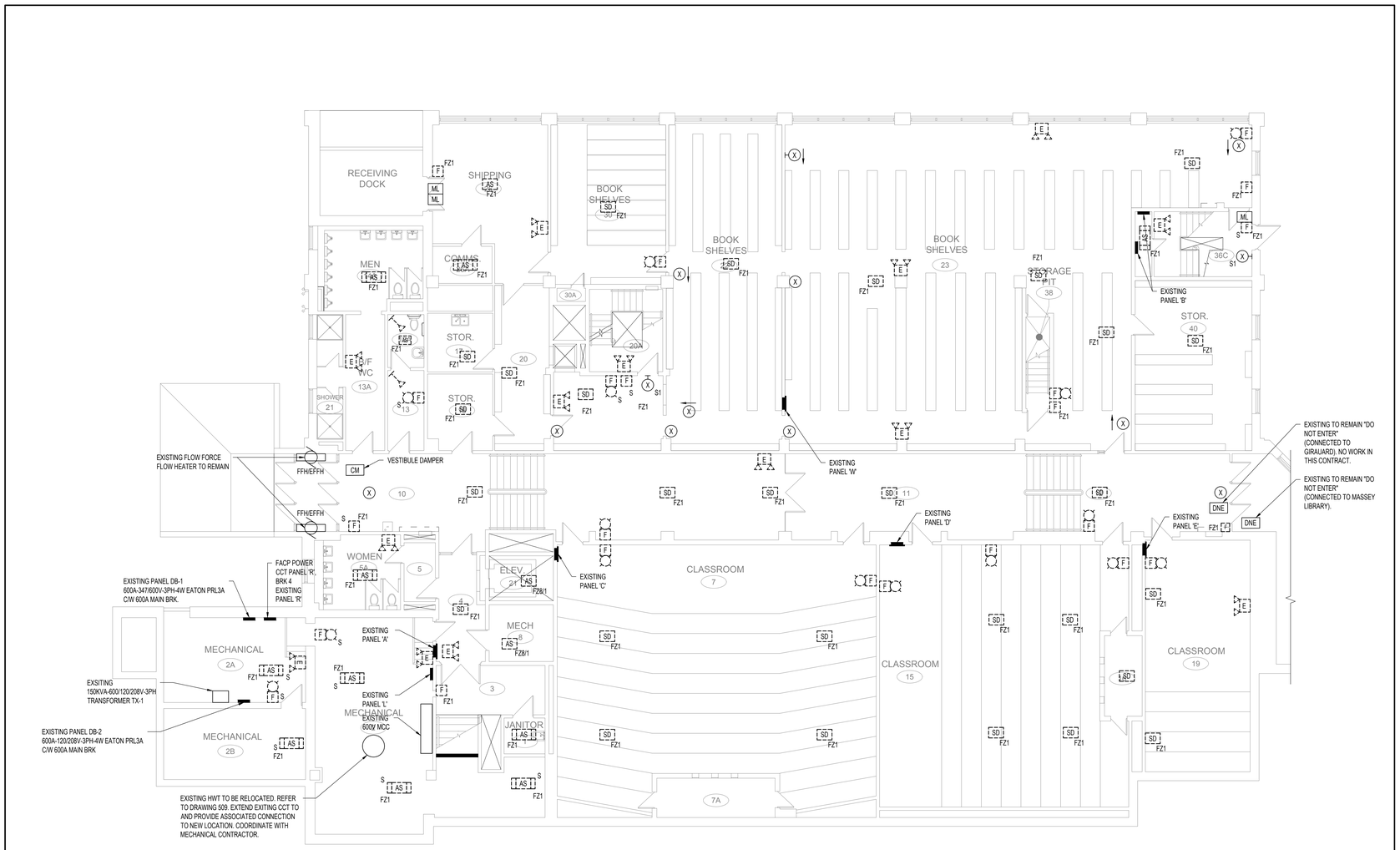
TRADE | MÉTIER: MECHANICAL
DATE: 2026-01-16

SUBJECT | SUJET
LEVEL 0 PLUMBING LAYOUT AND DETAILS

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: AS		DES O | AGENT CONC
DRAWN | DESSINÉ: ET		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: BG		DES MGR | GEST CONC
COORDINATION		FIRE | INCENDIE

WBS NO. | NO. OTP: KN229981
PF NO. | NO. DP: PF500613544
DWG. NO. | NO. DESSIN: K-K74-7701/32 - 410

Canada



1/501 LEVEL 0 DEMOLITION LAYOUT
SCALE: 1:100

0 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m
SCALE: 1:100

DEMOLITION LEGEND

(P)	EXISTING INCANDESCENT POT LIGHT TO REMAIN.
▬	EXISTING SURFACE MOUNT PANEL TO REMAIN.
▬	EXISTING FLUSH MOUNT PANEL TO REMAIN.
ML	EXISTING ELECTROMAGNETIC LOCK TO REMAIN
	REMOVE ABANDONNED MAG LOCK RELEASE PUSH BUTTON AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
	REMOVE EXISTING ABANDONNED ACCESS CONTROL SYSTEM STROBE LIGHT AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.
AS	REMOVE CONVENTIONAL HEAT DETECTOR WITH ADDRESSABLE MODULE.
F	REMOVE FIRE ALARM MANUAL PULL STATION AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. REFER TO NOTE 6.
AS	REMOVE FIRE ALARM ADDRESSABLE HEAT DETECTOR AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. REFER TO NOTE 6.
AS	REMOVE FIRE ALARM CONVENTIONAL HEAT DETECTOR AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. REFER TO NOTE 6.
SD	REMOVE FIRE ALARM SMOKE DETECTOR REFER TO NOTE 6. REUSE/REWORK CONDUIT AS MUCH AS POSSIBLE WITHIN THE PHASE OF THE WORK CURRENTLY UNDERWAY, PER THE FIRE ALARM LOOP BEING REPLACED. AS CLOSE AS POSSIBLE TO THE NEW FIRE ALARM LOOP RISERS, COME FROM THE CLOSEST DEVICE AND EXTEND CONDUIT TO THE NEW RISER. REMOVE ALL OTHER CONDUIT MADE REDUNDANT IN SWITCHING OVER TO THE NEW FIRE ALARM LOOP. REMOVE PREVIOUS LOOP WIRING.
F	REMOVE FIRE ALARM BELL AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. REFER TO NOTE 6.
E	REMOVE EMERGENCY LIGHTING UNIT AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. SEE NOTE 3. RETAIN AND RECONNECT ANY EXISTING EXIT SIGN DC WIRING FOR CONNECTION TO REPLACEMENT EMERGENCY LIGHTING UNIT.
	REMOVE SINGLE REMOTE HEAD AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. SEE NOTE 3.
X1 X	WALL MOUNTED EXIT SIGN EXISTING TO REMAIN.
X1 X	CEILING MOUNTED EXIT SIGN EXISTING TO REMAIN.
P	REMOVE FIRE ALARM SYSTEM CELLULAR TRANSMITTER AND ALL ASSOCIATED CONDUIT AND WIRING. RELOCATE AS INDICATED ON DRAWING 509.
———	EXISTING TO REMAIN
- - - - -	TO BE REMOVED
AFF	ABOVE FINISHED FLOOR
MH	MOUNTING HEIGHT
S	SURFACE MOUNTED DEVICE
FZ'x'	FIRE ALARM ZONE, WHERE 'x' DENOTES ZONE NUMBER.

DEMOLITION NOTES

*NOTES APPLY TO DWGS 501-504

1. RESERVED.
2. EXISTING END-OF-LINE RESISTORS AND ZONE ISOLATION MODULES TO BE REMOVED (NOT SHOWN ON PLAN). FOR BIDDING PURPOSES ASSUME 12 END-OF-LINE RESISTORS AND 18 ZONE ISOLATION MODULES. SUCCESSFUL PROPONENT TO CONFIRM ACTUAL COUNT OF END-OF-LINE RESISTORS AND ZONE ISOLATION MODULES ON SITE AND ADVISE DCC REPRESENTATIVE.
3. EMERGENCY LIGHT BRANCH CIRCUIT CONDUCTORS MAY BE RETAINED IN SAME LOCATION WHERE NEW UNIT IS INSTALLED IN SAME LOCATION AS OLD UNITS. REFER TO DRAWINGS 505-508 FOR NEW DEVICE LOCATIONS.
4. RESERVED.
5. AREA OF WORK CONTAINS ASBESTOS. REFER TO REPORT AVAILABLE FROM DCC REPRESENTATIVE.
6. INSTALLATION AND COMMISSIONING/VERIFICATION OF NEW FIRE ALARM SYSTEM IS REQUIRED BEFORE REMOVAL OF THE EXISTING FIRE ALARM SYSTEM TO ALLOW FOR CONTINUED OCCUPANCY OF THE BUILDING WITHOUT REQUIRING A FIRE WATCH. PHASING TO BE CARRIED OUT PER FIRE ALARM INITIATING LOOP, ONLY MOVING ONTO THE NEXT PHASE ONCE THE LOOP IS FULLY CHANGED TO OPERATE ON THE NEW SYSTEM, IS COMMISSIONED AND VERIFIED. THE CONTRACTOR, ELECTRICAL CONTRACTOR AND FIRE ALARM CONTRACTOR WILL BE REQUIRED TO VALIDATE THE FIRE ALARM LOOPS, AND PROVIDE UPDATES/CHANGES TO THE PHASING STRATEGY TO DND/DCC FOR REVIEW AND APPROVAL. THE CONTRACTOR IS TO PROVIDE A DETAILED CONSTRUCTION SCHEDULE, INCLUDING SPECIFIC AREAS AND TIMES OF WORK, TO MINIMIZE DISRUPTION TO THE THE USERS. SPEAKERS, SPEAKER/STROBES AND NEW STROBES TO BE WIRED TO NEW PANEL AND COMISSIONED/VERIFIED BEFORE THE EXISTING PANEL BELLS ARE TAKEN OFFLINE.

CONTRACT DRAWINGS

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UNCLASS | NON CLASSIFIÉ

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LICENSED PROFESSIONAL ENGINEER
2025-12-05
N.W.G. MURPHY
100058250
PROVINCE OF ONTARIO

TRUE NORTH / PROJECT NORTH

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SCALE | ECHELLE: 1:100

LOCATION | EMPLACEMENT
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ROYAL MILITARY COLLEGE OF CANADA
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PROJECT | PROJET
MASSEY LIBRARY
CONTROLS UPGRADE
LIFE SAFETY UPGRADES

TRADE | MÉTIER	DATE
ELECTRICAL	2018/03/05

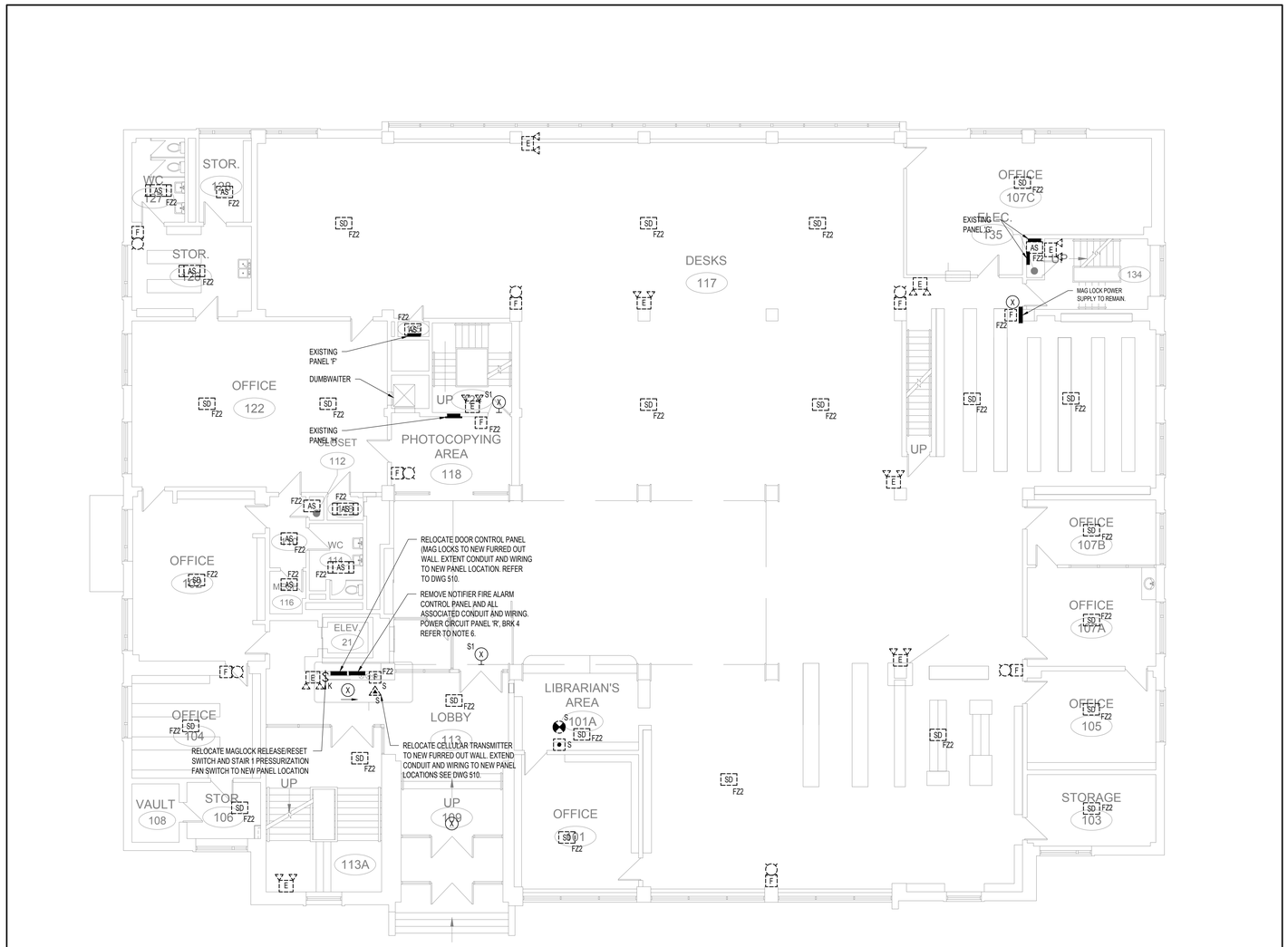
SUBJECT | SUJET
LEVEL 0 FLOOR PLAN
LIGHTING AND FIRE ALARM
DEMOLITION LAYOUT

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: NM		DES O | AGENT CONC
DRAWN | DESSINÉ: AN		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: NM		DES MGR | GEST CONC
COORDINATION: NM		FIRE | INCENDIE

WBS NO. | NO. OTP	PF NO. | NO. DP
KN229981	PF500613544

DWG. NO. | NO. DESSIN: K-K74-7701/32- 501

Canada



1 / 502 LEVEL 1 DEMOLITION LAYOUT

SCALE: 1:100

0 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m

SCALE: 1:100

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2025-12-05
N.W.G. MURPHY
100058250
PROVINCE OF ONTARIO

TRUE NORTH

PROJECT NORTH

NO.	DATE	REVISION	APPR.
4	2026-01-16	ISSUED FOR TENDER	PM
3	2025-09-11	ISSUED FOR 100% REVIEW	PM
2	2025-04-30	ISSUED FOR 99% REVIEW	PM
1	2024-12-20	ISSUED FOR 60% REVIEW	PM

SCALE | ECHELLE: 1:100

LOCATION | EMPLACEMENT

BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET

MASSEY LIBRARY CONTROLS UPGRADE LIFE SAFETY UPGRADES

TRADE | MÉTIER	DATE
ELECTRICAL	2018/03/05

SUBJECT | SUJET

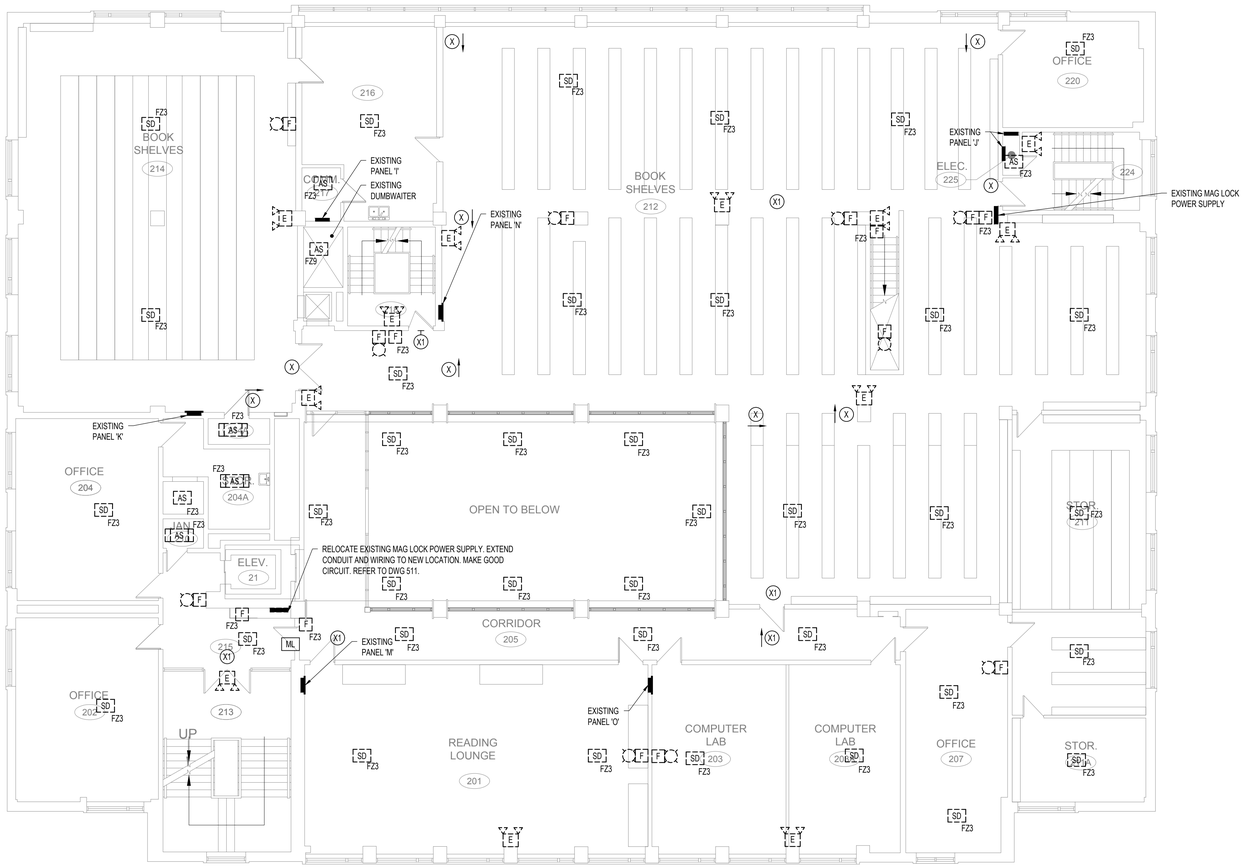
LEVEL 1 FLOOR PLAN LIGHTING AND FIRE ALARM DEMOLITION LAYOUT

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: NM		DES O | AGENT CONC
DRAWN | DESSINÉ: AN		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: NM		DES MGR | GEST CONC
COORDINATION: NM		FIRE | INCENDIE

WBS NO. | NO. OTP	PF NO. | NO. DP
KN229981	PF500613544

DWG. NO. | NO. DESSIN: K-K74-7701/32- 502

Canada



1 / 503 LEVEL 2 DEMOLITION LAYOUT
SCALE: 1:100

0 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m
SCALE: 1:100

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N.W.G. MURPHY
100058250
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SCALE | ECHELLE: 1:100

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
CONTROLS UPGRADE
LIFE SAFETY UPGRADES

TRADE | MÉTIER: ELECTRICAL
DATE: 2018/03/05

SUBJECT | SUJET
LEVEL 2 FLOOR PLAN
LIGHTING AND FIRE ALARM
DEMOLITION LAYOUT

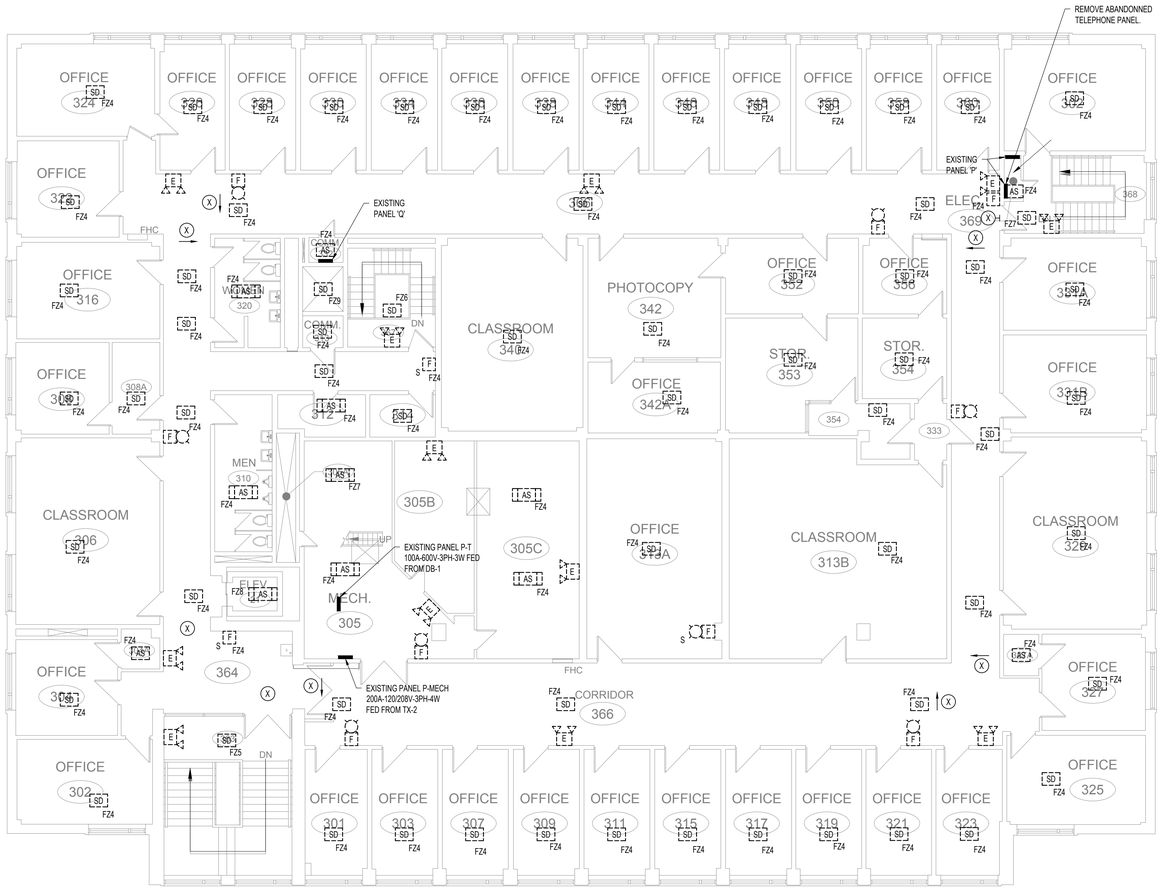
PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: NM		DES O | AGENT CONC
DRAWN | DESSINÉ: AN		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: NM		DES MGR | GEST CONC
COORDINATION: NM		FIRE | INCENDIE

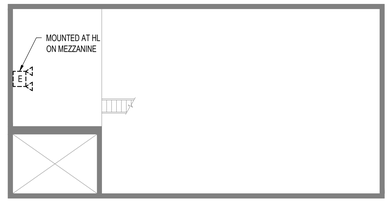
WBS NO. | NO. OTP: KN229981
PF NO. | NO. DP: PF500613544

DWG. NO. | NO. DESSIN: K-K74-7701/32- 503

Canada

Sheet# of#





1 / 504 LEVEL 3 DEMOLITION LAYOUT
SCALE: 1:100

0 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m
SCALE: 1:100

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2025-12-05
N.W.G. MURPHY
100058260
PROVINCE OF ONTARIO

TRUE NORTH / PROJECT NORTH

NO.	DATE	REVISION	APPR.
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SCALE | ECHELLE: 1:100

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
CONTROLS UPGRADE
LIFE SAFETY UPGRADES

TRADE | MÉTIER: ELECTRICAL
DATE: 2018/03/05

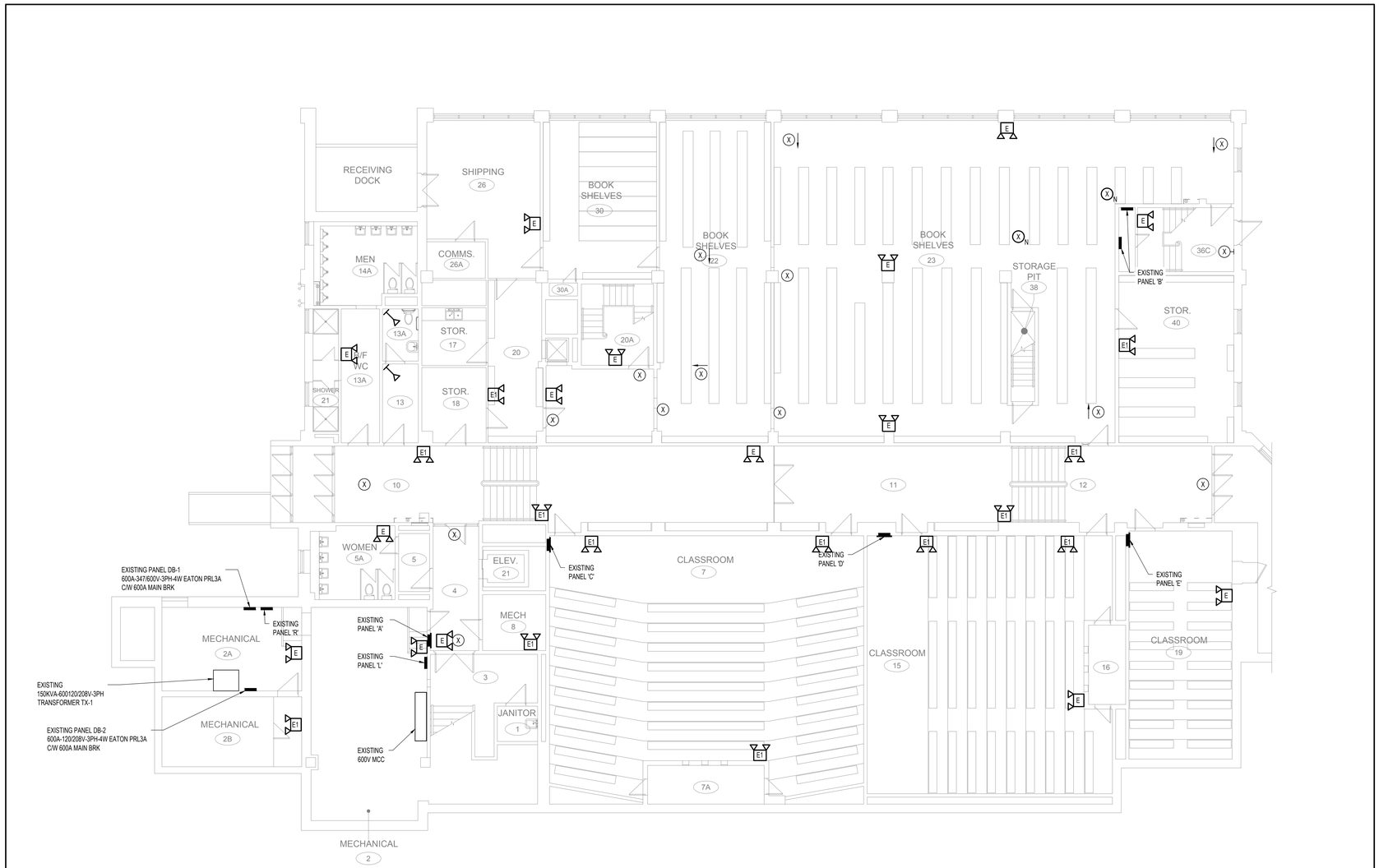
SUBJECT | SUJET
LEVEL 3 FLOOR PLAN
LIGHTING AND FIRE ALARM
DEMOLITION LAYOUT

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: NM		DES O | AGENT CONC
DRAWN | DESSINÉ: AN		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: NM		DES MGR | GEST CONC
COORDINATION: NM		FIRE | INCENDIE

WBS NO. | NO. OTP: KN229981
PF NO. | NO. DP: PF500613544
DWG. NO. | NO. DESSIN: K-K74-7701/32- 504

Canada

Sheet# of#



1 / 505 LEVEL 0 LIGHTING LAYOUT
SCALE: 1:100

0 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m
SCALE: 1:100

LIGHTING LEGEND

	SURFACE MOUNT PANEL
	FLUSH MOUNT PANEL
X	EXISTING SINGLE FACE UNIVERSAL MOUNT SELF-POWERED LED PICTOGRAM (RUNNING MAN) EXIT SIGN.
X_N	NEW SINGLE FACE UNIVERSAL MOUNT SELF-POWERED LED PICOGRAM (RUNNING MAN) EXIT SIGN.
X1	EXISTING DUAL FACE UNIVERSAL MOUNT SELF-POWERED LED PICTOGRAM (RUNNING MAN) EXIT SIGN.
E	EMERGENCY LIGHTING UNIT, REFER TO SPECIFICATION. MH 2550. REUSE EXISTING BRANCH CIRCUIT. RETAIN AND RECONNECT ANY EXISTING EXIT SIGN DC WIRING FROM EMERGENCY LIGHTING UNIT (BATTERY) THAT WAS REMOVED FOR CONNECTION TO REPLACEMENT EMERGENCY LIGHTING UNIT PROVIDED HEREIN.
E1	EMERGENCY LIGHTING UNIT, REFER TO SPECIFICATION. MH 2550. EXTEND LOCAL LIGHT CIRCUIT CONDUIT AND WIRING TO NEW LOCATION ON SAME FLOOR.
E2	EMERGENCY LIGHTING UNIT PROVIDE AS A PART OF THE BF/ELEVATOR UPGRADE PROJECT. NO ASSOCIATED WORK IN THIS PROJECT BY THIS TRADE.
	PROVIDE SINGLE REMOTE HEAD AND REUSE EXISTING CIRCUIT.
	PROVIDE WALL MOUNTED EMERGENCY LIGHTING UNIT REUSE EXISTING CIRCUIT.
	NEW
	EXISTING TO REMAIN
3	3-WAY SWITCH
4	4-WAY SWITCH
AFF	ABOVE FINISHED FLOOR
MH	MOUNTING HEIGHT
S	SURFACE MOUNTED DEVICE

LIGHTING NOTES

1. RESERVED.
2. ALLOW FOR ESA INSPECTION REPORT FOR PARTIAL OCCUPANCY OF EACH AND EVERY PHASE. REFER TO SPECIFICATION 01 11 00 FOR NUMBER AND TIMING OF PHASING.
3. AREA OF WORK CONTAINS ASBESTOS. REFER TO REPORT AVAILABLE FROM OWNER.

CONTRACT DRAWINGS

CONTRACT DRAWINGS FOR ELECTRICAL WORK ARE IN PART DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK AND CONTRACTOR TO COORDINATE LAYOUT OF ELECTRICAL SYSTEMS WITH ARCHITECTURAL, STRUCTURAL, AND MECHANICAL BUILDING COMPONENTS, AS WELL AS OTHER ELECTRICAL SYSTEMS. PROVIDE ADDITIONAL JUNCTION BOXES, FITTINGS, SUPPORTS, ETC. REQUIRED TO FACILITATE THE WORK FOR A COMPLETE SYSTEM. NO EXTRA PAYMENTS ARISING FROM FAILURE TO MAKE THIS COORDINATION WILL BE CONSIDERED.

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LICENSED PROFESSIONAL ENGINEER
2025-12-05
N.W.G. MURPHY
100058250
PROVINCE OF ONTARIO

TRUE NORTH / PROJECT NORTH

NO.	DATE	REVISION	APPR.
4	2026-01-16	ISSUED FOR TENDER	PM
3	2025-09-11	ISSUED FOR 100% REVIEW	PM
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1	2024-12-20	ISSUED FOR 60% REVIEW	PM

SCALE | ECHELLE: 1:100

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
CONTROLS UPGRADE
LIFE SAFETY UPGRADES

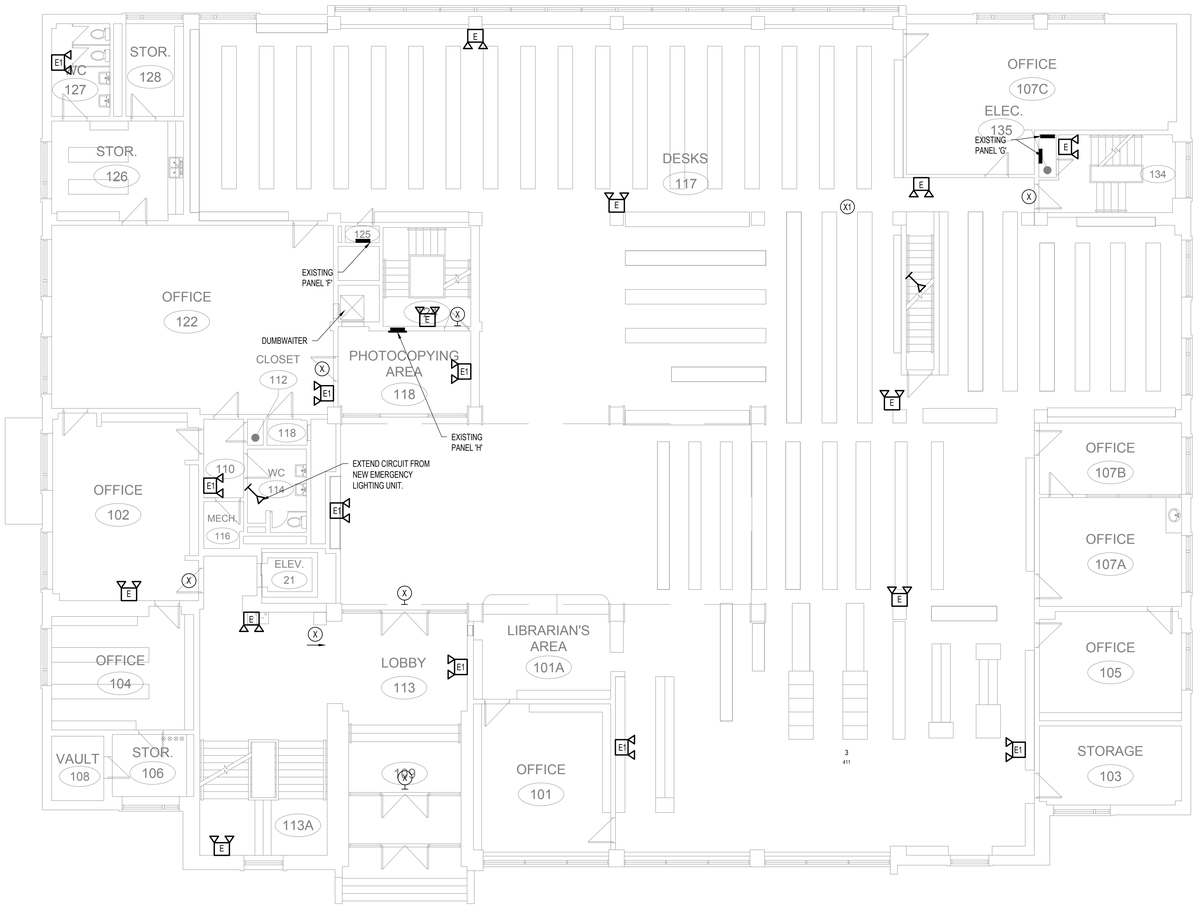
TRADE | MÉTIER: ELECTRICAL
DATE: 2018/03/05

SUBJECT | SUJET
LEVEL 0 FLOOR PLAN
LIGHTING LAYOUT

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: NM		DES O | AGENT CONC
DRAWN | DESSINÉ: AN		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: NM		DES MGR | GEST CONC
COORDINATION: NM		FIRE | INCENDIE

WBS NO. | NO. OTP: KN229981
PF NO. | NO. DP: PF500613544
DWG. NO. | NO. DESSIN: K-K74-7701/32- 505

Canada



1
506
LEVEL 1 LIGHTING LAYOUT
SCALE: 1:100

0 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m
SCALE: 1:100

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100058850
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TRUE NORTH
PROJECT NORTH

NO.	DATE	REVISION	APPR.
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SCALE | ECHELLE:
1:100

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
CONTROLS UPGRADE
LIFE SAFETY UPGRADES

TRADE | MÉTIER	DATE
ELECTRICAL	2018/03/05

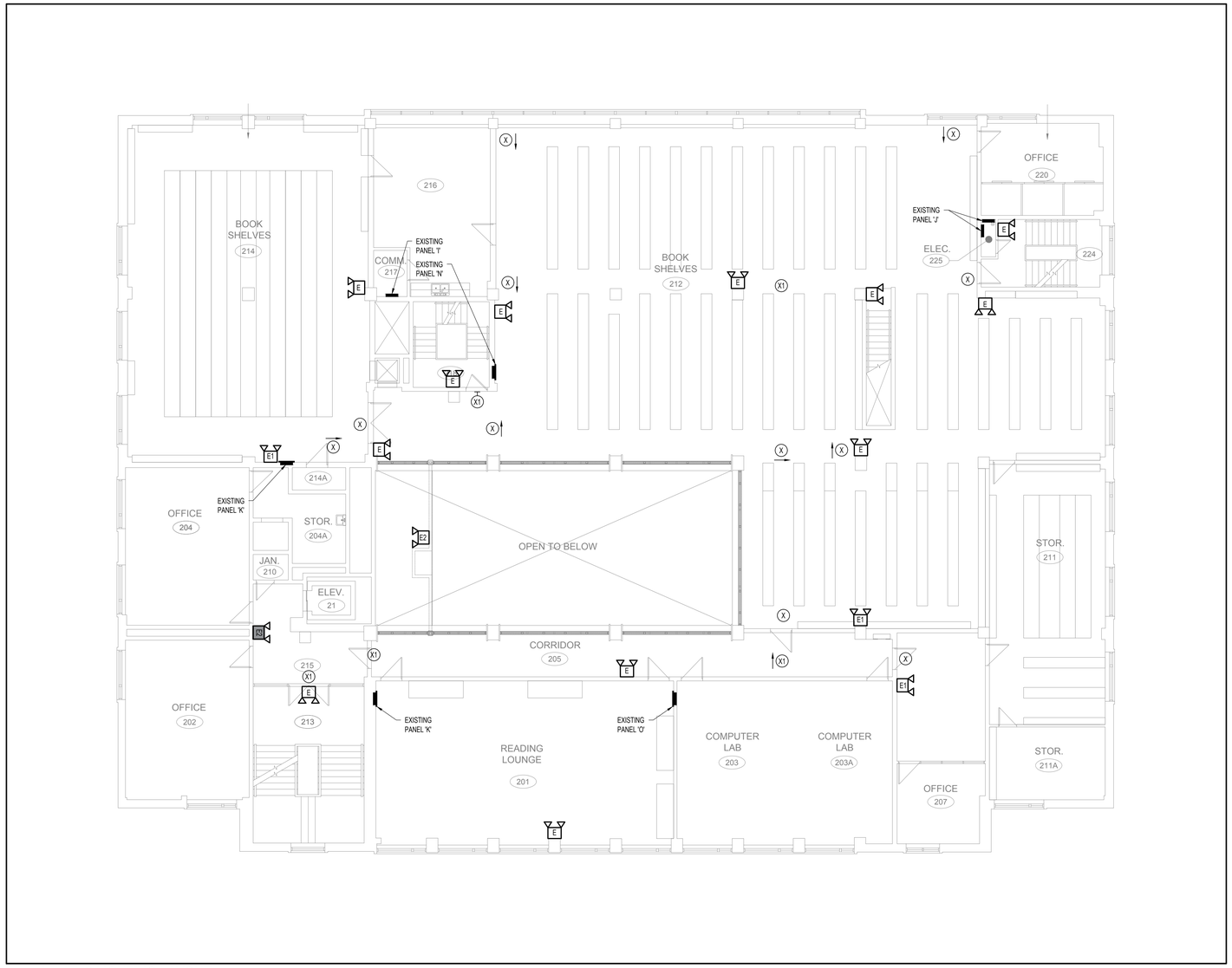
SUBJECT | SUJET
LEVEL 1 FLOOR PLAN
LIGHTING LAYOUT

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: NM		DES O | AGENT CONC
DRAWN | DESSINÉ: AN		PROJ MGR | GEST PROJ
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COORDINATION: NM		FIRE | INCENDIE

WBS NO. | NO. OTP	PF NO. | NO. DP
KN229981	PF500613544

DWG. NO. | NO. DESSIN
K-K74-7701/32- 506

Canada



1 / 507 LEVEL 2 LIGHTING LAYOUT
SCALE: 1:100

0 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m
SCALE: 1:100

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SCALE | ECHELLE: 1:100

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

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MASSEY LIBRARY
CONTROLS UPGRADE
LIFE SAFETY UPGRADES

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SUBJECT | SUJET
LEVEL 2 FLOOR PLAN
LIGHTING LAYOUT

PRODUCTION	REVIEWED | REVU	
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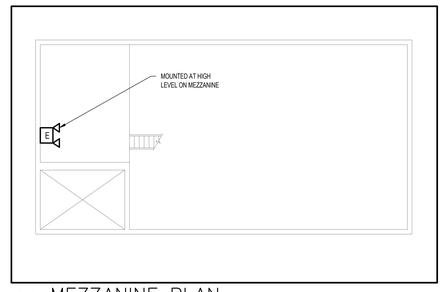
DWG. NO. | NO. DESSIN: K-K74-7701/32- 507

Canada

Sheet# of#



1 / 508 LEVEL 3 LIGHTING LAYOUT
SCALE: 1:100



2 / 508 MEZZANINE PLAN
SCALE: 1:100

0 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m
SCALE: 1:100

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2025-12-05
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100058260
PROVINCE OF ONTARIO

TRUE NORTH
PROJECT NORTH

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SCALE | ECHELLE: 1:100

LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
CONTROLS UPGRADE
LIFE SAFETY UPGRADES

TRADE | MÉTIER: ELECTRICAL
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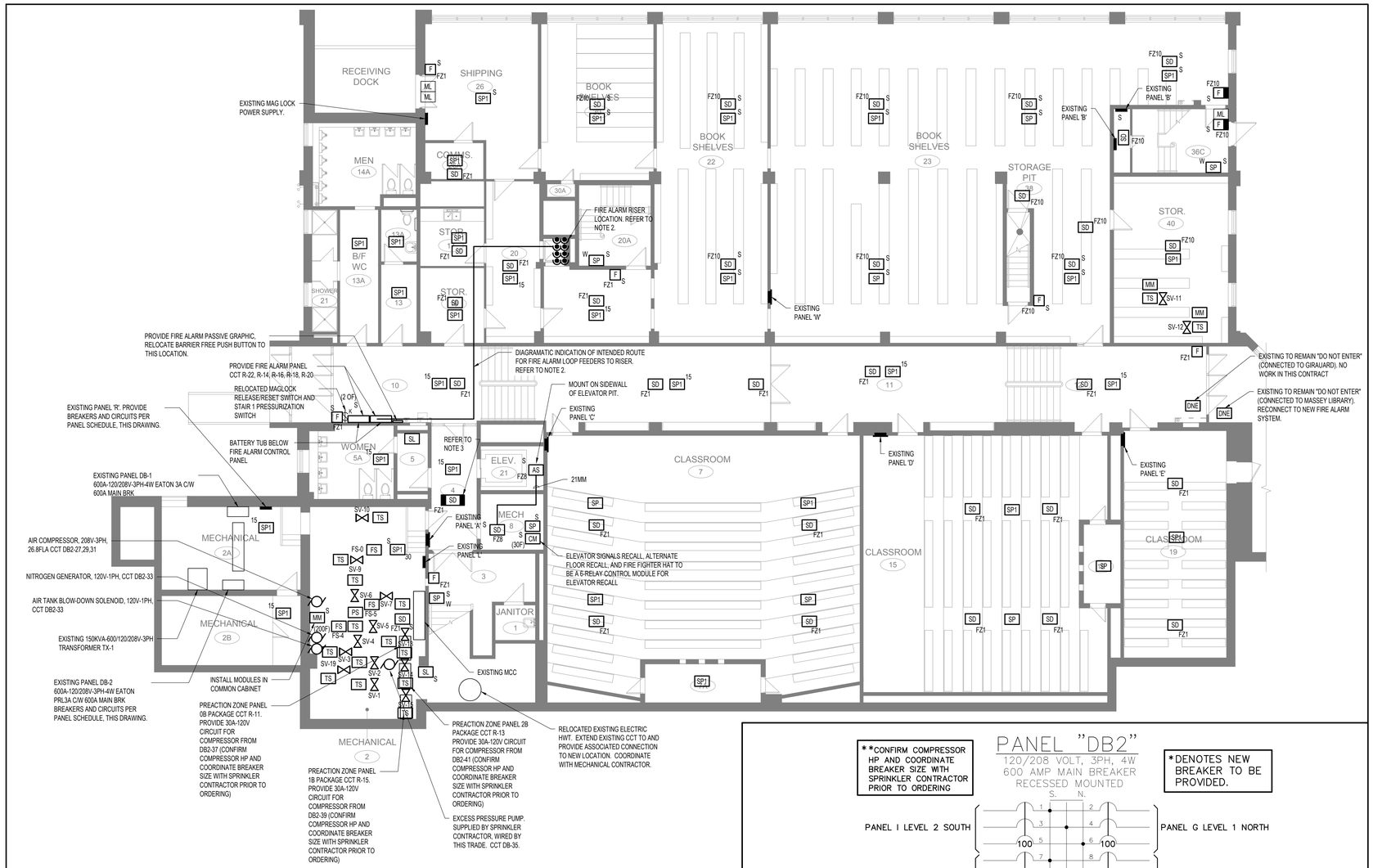
SUBJECT | SUJET
LEVEL 3 FLOOR PLAN
LIGHTING LAYOUT

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: NM		DES O | AGENT CONC
DRAWN | DESSINÉ: AN		PROJ MGR | GEST PROJ
CHECKED | VÉRIFIÉ: NM		DES MGR | GEST CONC
COORDINATION: NM		FIRE | INCENDIE

WBS NO. | NO. OTP: KN229981
PF NO. | NO. DP: PF500613544

DWG. NO. | NO. DESSIN: K-K74-7701/32- 508

Canada



1 509 LEVEL 0 FIRE ALARM LAYOUT
SCALE: 1:100

PANEL "R"

120/208 VOLT, 3PH, 4W
100A FED FROM DB-2
(225A RATED)

*DENOTES NEW BREAKER TO BE PROVIDED.

S.		N.	
ELEVATOR CAB LIGHTS	15 (1)	15 (2)	EXIT LIGHTS LEVEL 0,1,2
MECH RM. LIGHTS	15 (3)	15 (4)	TO BE SPARE (FORMERLY FIRE ALARM PANEL)
ELEVATOR PLUG	15 (5)	15 (6)	SUMP PUMP ELECT RM.
DAMPER CONTROLS EF-1	15 (7)	20 (8)	STEAM CONDENSATE PUMPS
PANEL PLUG	15 (9)	20 (10)	
PREACTION PANEL ZONE PANEL 0B PACKAGE*	15 (11)	(12)	SPACE
PREACTION PANEL ZONE PANEL 2B PACKAGE*	15 (13)	20 (14)	FIRE ALARM PANEL *
PREACTION PANEL ZONE PANEL 1B PACKAGE*	15 (15)	20 (16)	FIRE ALARM PANEL *
SPACE	(17)	20 (18)	FIRE ALARM PANEL *
SPACE	(19)	20 (20)	FIRE ALARM PANEL *
SPACE	(21)	20 (22)	FIRE ALARM PANEL *
SPACE	(23)	(24)	SPACE
SPACE	(25)	(26)	SPACE
SPACE	(27)	15 (28)	GLYCOL PUMP
FAN DAMPER CONTROLS EF-2	15 (29)	15 (30)	CHILLER CONTROL PANEL

2 509 PANEL 'R' PANEL SCHEDULE
SCALE: NTS

PANEL "DB2"

120/208 VOLT, 3PH, 4W
600 AMP MAIN BREAKER
RECESSED MOUNTED

**CONFIRM COMPRESSOR HP AND COORDINATE BREAKER SIZE WITH SPRINKLER CONTRACTOR PRIOR TO ORDERING

*DENOTES NEW BREAKER TO BE PROVIDED.

S.		N.	
PANEL I LEVEL 2 SOUTH	(1)	(2)	PANEL G LEVEL 1 NORTH
	(3)	(4)	
	100 (5)	100 (6)	
PANEL F LEVEL 1 SOUTH	(7)	(8)	PANEL H LEVEL 1 SOUTH
	100 (9)	100 (10)	
	100 (11)	100 (12)	
PANEL Q LEVEL 3 SOUTH	(13)	(14)	PANEL R LEVEL 0 ELECTRICAL RM
	100 (15)	100 (16)	
	100 (17)	100 (18)	
PANEL P LEVEL 3 NORTH	(19)	(20)	AC SECOND FLOOR RM
	100 (21)	50 (22)	
	100 (23)	50 (24)	
SPACE	(25)	(26)	
AIR COMPRESSOR	* (27)	(28)	AC THIRD FLOOR
	* (29)	50 (30)	
	* 70 (31)	(32)	
NITROGEN GENERATOR AND SOLENOID VALVE	* 15 (33)	(34)	PANEL J LEVEL 2 NORTH
EXCESS PRESSURE PUMP	* 15 (35)	100 (36)	
** PREACTION ZONE PANEL 0B COMPRESSOR	* 30 (37)	(38)	
** PREACTION ZONE PANEL 1B COMPRESSOR	* 30 (39)	(40)	PANEL B LEVEL 0 NORTH
** PREACTION ZONE PANEL 2B COMPRESSOR	* 30 (41)	100 (42)	
	(43)	(44)	
SPARE	(45)	(46)	SPARE
	225 (47)	225 (48)	
	(49)	(50)	
PANEL A LEVEL 0 SOUTH	(51)	(52)	PANEL A LEVEL 0 SOUTH
	225 (53)	225 (54)	

3 509 PANEL 'DB2' PANEL SCHEDULE
SCALE: NTS

FIRE ALARM LEGEND

■	EXISTING MAGNETIC DOOR HOLD OPEN DEVICE TO REMAIN
ML	EXISTING ELECTROMAGNETIC LOCK TO REMAIN
	SUPERVISED VALVE REFER TO SPRINKLER RISER DIAGRAM
SP1	CEILING MOUNTED FIRE ALARM SPEAKER STROBE. 15 CANDELA OR AS INDICATED
FS	FLOW SWITCH
PS	PRESSURE SWITCH
TS	TAMPER SWITCH
AS	ADDRESSABLE 135°F HEAT DETECTOR FIXED TEMPERATURE & 15°F RATE OF RISE
AS	CONVENTIONAL HEAT DETECTOR 135°F FIXED TEMPERATURE
AS	HEAT DETECTOR 190°F FIXED TEMPERATURE
SD	ADDRESSABLE SMOKE DETECTOR
SD1	ADDRESSABLE SMOKE DETECTOR ABOVE DROP CEILING TO OPERATE COMBINATION FIRE/SMOKE DAMPER (FSD).
SD	ADDRESSABLE SMOKE DETECTOR C/W ISOLATION BASE
SD	ADDRESSABLE SMOKE DETECTOR C/W RELAY BASE
DD	ADDRESSABLE DUCT SMOKE DETECTOR COMPLETE WITH REMOTE LED.
CM	FIRE ALARM CONTROL MODULE
F	ADDRESSABLE FIRE ALARM PULL STATION WITH AUXILIARY CONTACTS. MH 1100 AFF. REFER TO NOTE 5.
F	ADDRESSABLE FIRE ALARM PULL STATION.
	RELOCATED FIRE ALARM SYSTEM CELLULAR TRANSMITTER CIRCUIT AS INDICATED.
	MOTOR BY SPRINKLER CONTRACTOR. HP AS INDICATED. WIRED BY THIS TRADE
	CONDUIT RISING
	CONDUIT DROPPING
FZ M	JUNCTION BOX WITH 120V FOR MECHANICAL CONTROLS. PROVIDE 2#12&1#12BD-21mm CONDUIT FROM CLOSEST PANEL OR AS INDICATED.
SP	CEILING MOUNTED FIRE ALARM SPEAKER UNLESS OTHERWISE NOTED.
MM	FIRE ALARM MONITORING MODULE
SL	WALL MOUNTED FIRE ALARM STROBE LIGHT. 15 CANDELA OR AS INDICATED
DNE	"FIRE DO NOT ENTER" SIGN. 24VDC. SUPPLIED BY OTHERS. WIRED AND TESTED BY THIS TRADE. REFER TO FIRE ALARM RISER DIAGRAM FOR EXTENT OF WORK BY THIS TRADE.
SPK	SPRINKLER ZONE CONTROL CABINET. SEE MECHANICAL ZONE CONTROL CABINET DETAIL
K	RELOCATED MAG LOCK KEYED MOMENTARY RELEASE/RESET SWITCH
	NEW
	EXISTING TO REMAIN
AFF	ABOVE FINISHED FLOOR
MH	MOUNTING HEIGHT
S	SURFACE MOUNTED DEVICE
W	WALL MOUNTED DEVICE.
FZX	FIRE ALARM ZONE, WHERE 'x; DENOTES ZONE NUMBER.

NOTES

*NOTES APPLY TO DWGS 509-512

1. SEE FIRE ALARM NOTES ON DRAWING 513.
2. FIRE ALARM CONDUIT RISER. CORING BY GENERAL CONTRACTOR. COORDINATE WITH SPRINKLER AND STANDPIPE RISERS. REFER TO FIRE ALARM SINGLE LINE DIAGRAM AT THIS LOCATION FOR EXTENT OF WORK BY THIS TRADE.
3. INTERCONNECTED RELAY FROM SMOKE DETECTOR BASE WITH ELEVATOR CONTROLLER FOR ALTERNATE FLOOR RECALL CONTROL.
4. PHASING TO BE CARRIED OUT PER FIRE ALARM INITIATING LOOP, ONLY MOVING ONTO THE NEXT PHASE ONCE THE LOOP IS FULLY CHANGED TO OPERATE ON THE NEW SYSTEM, IS COMMISSIONED AND VERIFIED. THE CONTRACTOR, ELECTRICAL CONTRACTOR AND FIRE ALARM CONTRACTOR WILL BE REQUIRED TO VALIDATE THE FIRE ALARM LOOPS, AND PROVIDE UPDATES/CHANGES TO THE PHASING STRATEGY TO DNC/DCC FOR REVIEW AND APPROVAL. THE CONTRACTOR IS TO PROVIDE A DETAILED CONSTRUCTION SCHEDULE, INCLUDING SPECIFIC AREAS AND TIMES OF WORK, TO MINIMIZE DISRUPTIONS TO THE USERS. SPEAKERS, SPEAKER/STROBES AND NEW STROBES TO BE WIRED TO NEW PANEL AND COMMISSIONED/VERIFIED BEFORE THE EXISTING PANEL BELLS ARE TAKEN OFFLINE.
5. FIRE ALARM PULL STATIONS AT MAGLOCK DOOR SHALL HAVE DOUBLE ENDED CONTACTS TO ENSURE MAGLOCK RELEASE. ONE CONTACT SHALL CONNECT TO BASE BUILDING FIRE ALARM SYSTEM AND ONE CONTACTS TO SECURITY MAGLOCK SYSTEM.

0 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m
SCALE: 1:100

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100058260
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LOCATION | EMPLACEMENT
BUILDING R13 - MASSEY LIBRARY
ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET
MASSEY LIBRARY
CONTROLS UPGRADE
LIFE SAFETY UPGRADES

TRADE | MÉTIER	DATE
ELECTRICAL	2018/03/05

SUBJECT | SUJET
LEVEL 0 FLOOR PLAN
FIRE ALARM LAYOUT

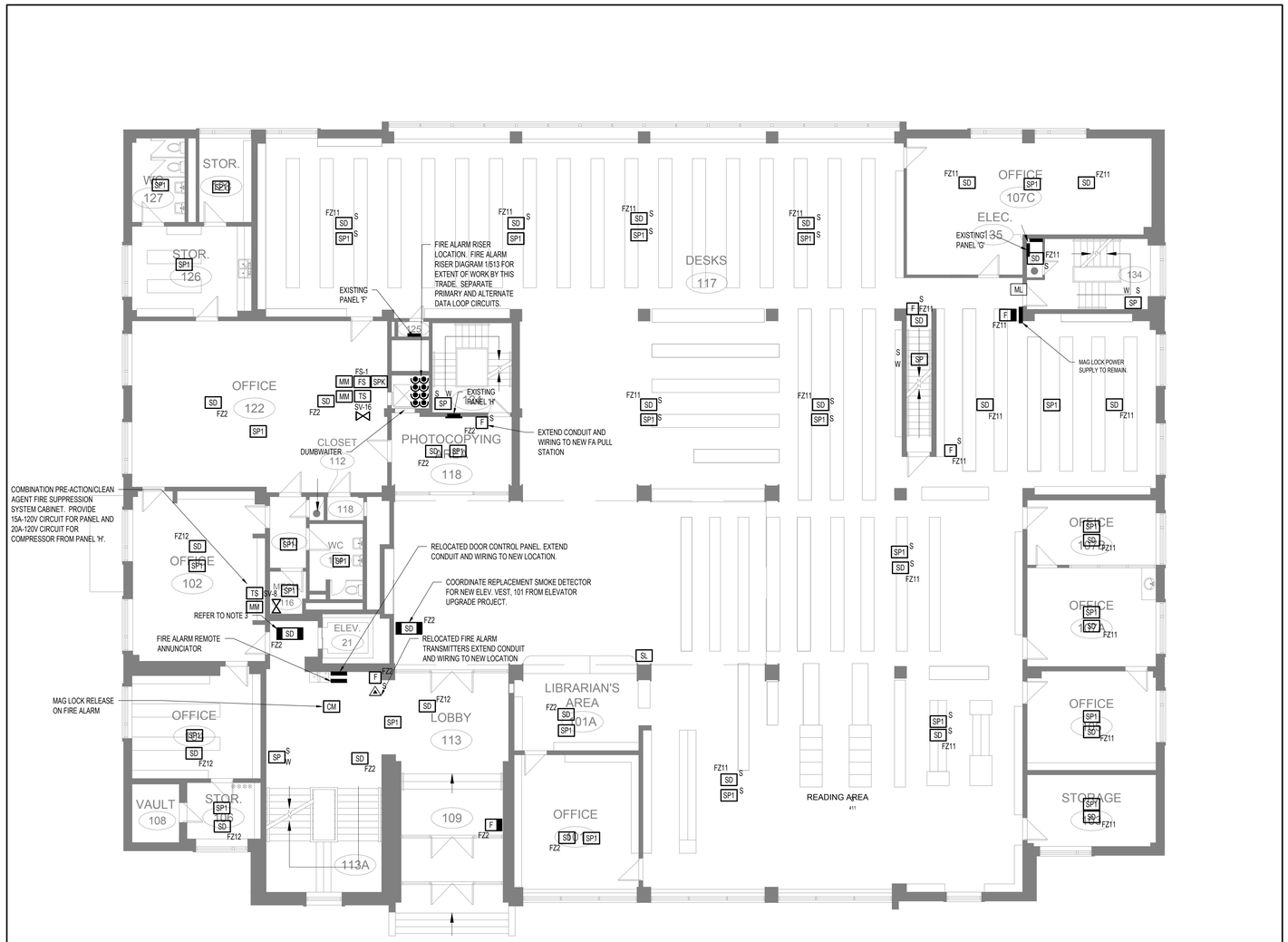
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1/510 LEVEL 1 FIRE ALARM LAYOUT

SCALE: 1:100

0 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m

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LOCATION | EMPLACEMENT

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ROYAL MILITARY COLLEGE OF CANADA
KINGSTON, ON

PROJECT | PROJET

MASSEY LIBRARY
CONTROLS UPGRADE
LIFE SAFETY UPGRADES

TRADE | MÉTIER	DATE
ELECTRICAL	2018/03/05

SUBJECT | SUJET

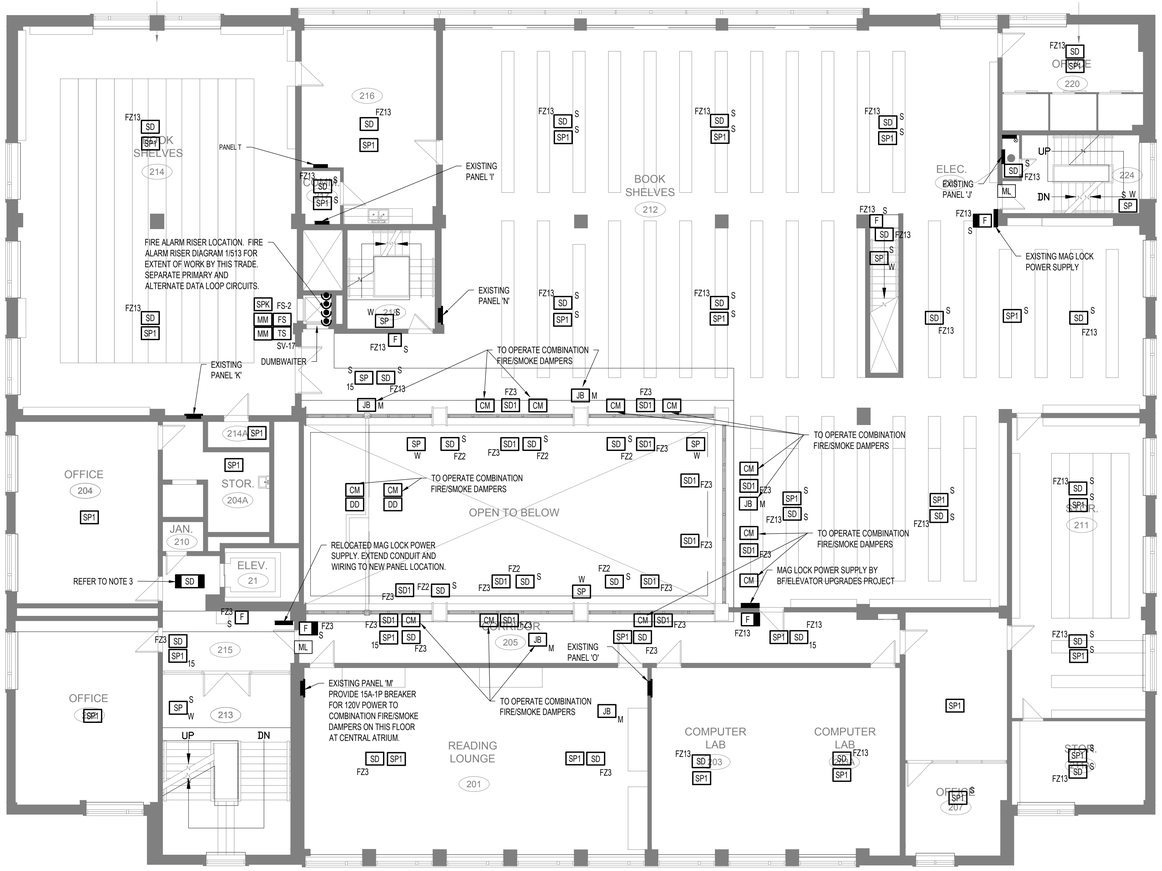
LEVEL 1 FLOOR PLAN
FIRE ALARM LAYOUT

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1 511 LEVEL 2 FIRE ALARM LAYOUT

SCALE: 1:100

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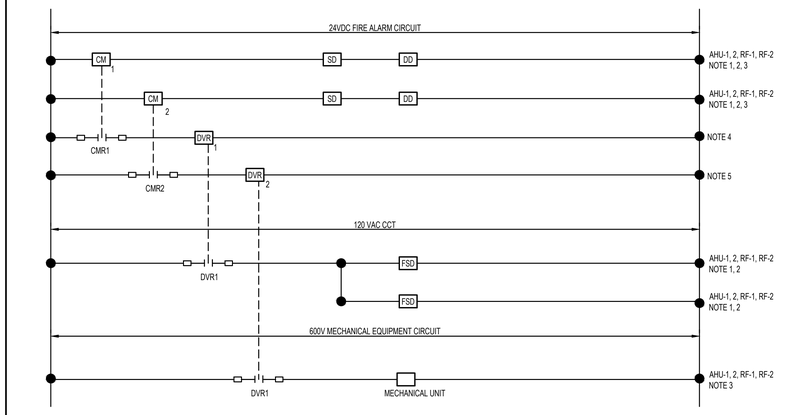
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GENERAL NOTES

A. DEVICES SHOWN BELOW DO NOT IDENTIFY TOTAL QUANTITIES REQUIRED AND ARE SHOWN FOR GENERAL CONNECTION AND CONTROL INTENT. DEVICES AND LOCATIONS TO BE COORDINATED WITH DRAWINGS, SPECIFICATIONS, NBC, CAN/ULC S524 AND MECHANICAL CONTRACTOR.
B. COMBINATION FIRE SMOKE DAMPERS (FSD) PROVIDE ALL CONTROL SIGNALS WIRING, CONDUIT, RELAY. FIRE ALARM DEVICES AS REQUIRED FOR A COMPLETE INSTALLATION AND INTERCONNECT WITH COMBINATION FIRE SMOKE DAMPERS. PROVIDE CIRCUITS AS IDENTIFIED ON PLAN DRAWINGS AND PANEL SCHEDULES AND CONNECT TO EACH DAMPER. CONFIRM LOCATIONS WITH MECHANICAL DRAWINGS AND CONTRACTOR ON SITE.
C. ONCE FIRE ALARM PANEL HAS BEEN CLEARED, FIRE ALARM CONTROL SIGNAL TO AUTOMATICALLY RESTORE CIRCUIT AND OPENING THE COMBINATION FIRE/SMOKE DAMPERS.

DRAWING NOTES

1. COMBINATION FIRE SMOKE DAMPERS IN HVAC SYSTEM TO CLOSE WHEN DE-ENERGIZED ON SMOKE DETECTOR, OR DUCT TYPE SMOKE DETECTOR ACTIVATION ANY DETECTOR WITHIN AN HVAC SYSTEM SHALL SHUTDOWN HVAC EQUIPMENT WITHIN SYSTEM INCLUDING BUT NOT LIMITED TO AIR HANDING UNITS, ROOF TOP UNITS, MAKE UP AIR UNITS ETC.
2. COMBINATION FIRE SMOKE DAMPER TO CLOSE UPON LOSS OF POWER.
3. POWER TO HVAC EQUIPMENT INCLUDING NUT LIMITED TO AIR HANDLING UNITS, ROOF TOP UNITS, MAKE UP AIR UNITS ETC, TO DE-ENERGIZE UPON SMOKE DETECTOR, OR DUCT TYPE SMOKE DETECTOR ACTIVATION.
4. DUAL VOLTAGE RELAY POWERED BY FIRE ALARM SYSTEM WITH 120V RATED CONTACTS SUITABLE FOR SWITCHING CONNECTED LOAD.
5. DUAL VOLTAGE RELAY POWERED BY FIRE ALARM SYSTEM WITH 600V RATED CONTACTS SUITABLE FOR SWITCHING CONNECTED LOAD.



2 511 COMBINATION FIRE/SMOKE WIRING SCHEMATIC

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KINGSTON, ON

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LIFE SAFETY UPGRADES

TRADE | MÉTIER	DATE
ELECTRICAL	2018/03/05

SUBJECT | SUJET
LEVEL 2 FLOOR PLAN
FIRE ALARM LAYOUT

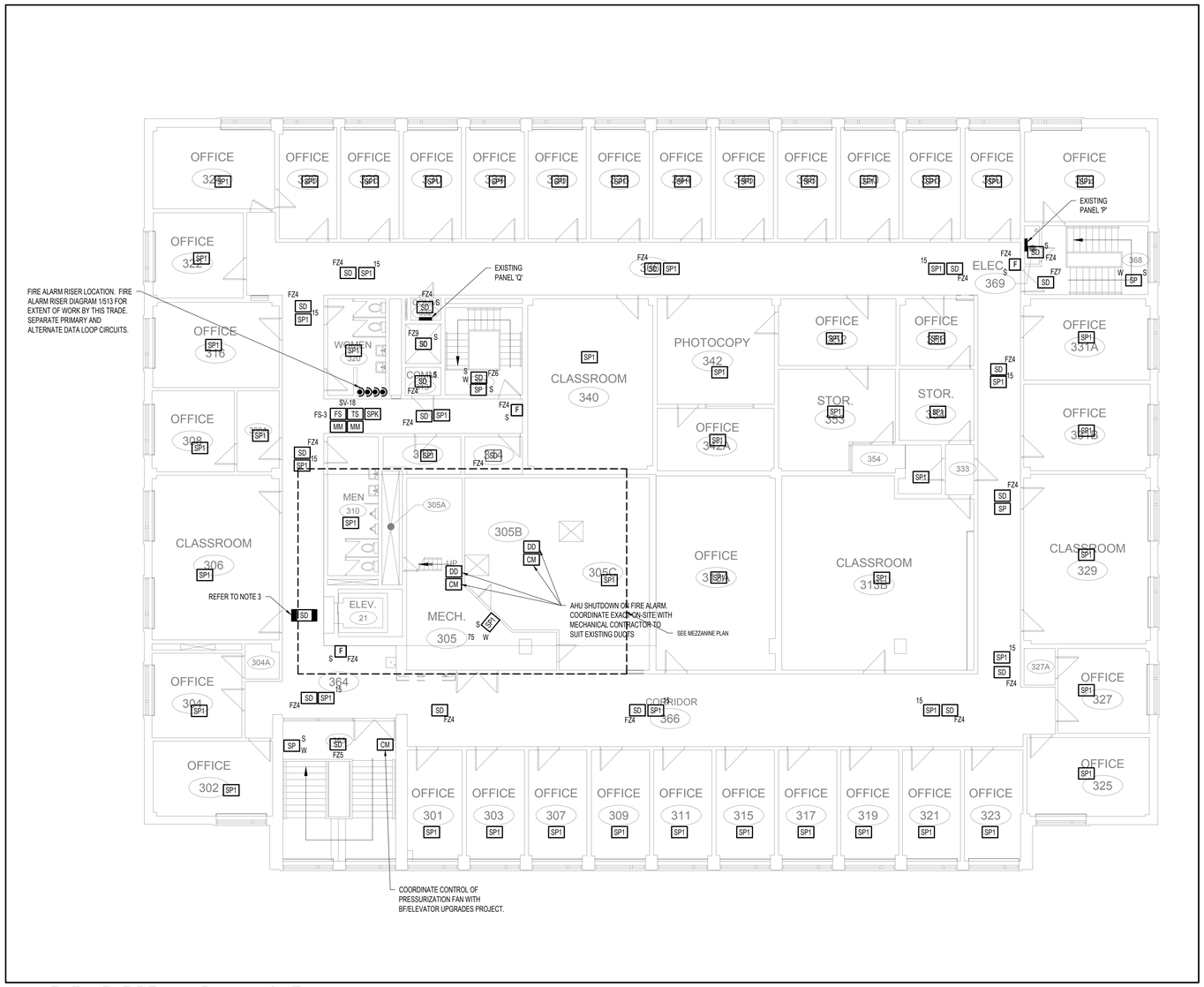
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COORDINATION: NM		FIRE | INCENDIE

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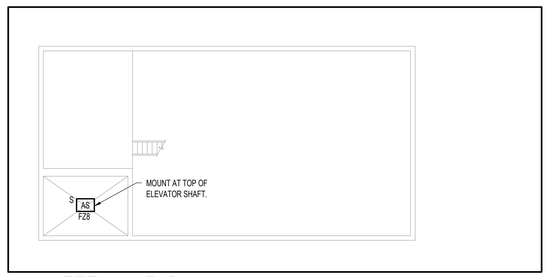
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1/512 LEVEL 3 FIRE ALARM LAYOUT
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2/512 MEZZANINE PLAN
SCALE: 1:100

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PROJECT | PROJET
MASSEY LIBRARY
CONTROLS UPGRADE
LIFE SAFETY UPGRADES

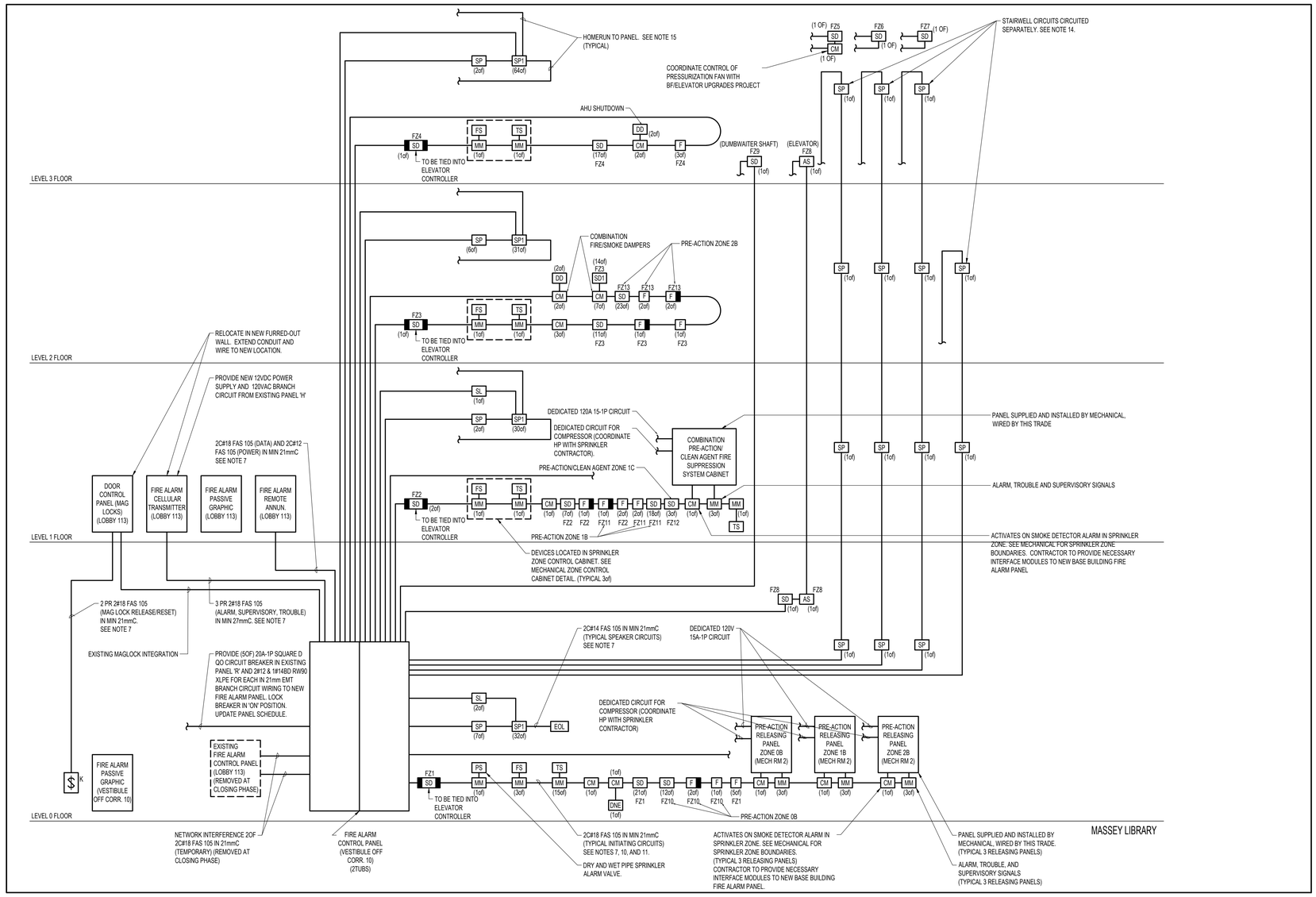
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DATE: 2018/03/05

SUBJECT | SUJET
LEVEL 3 FLOOR PLAN
FIRE ALARM LAYOUT

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1 / 513 FIRE ALARM RISER DIAGRAM

SCALE: N.T.S.

0 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m

SCALE: 1:100

NOTES

1. REFER TO PLAN FOR EXACT NUMBER OF DEVICES.
2. END-OF-LINE RESISTORS NOT SHOWN ON PLAN. FOR BIDDING PURPOSES ASSUME 50 END-OF-LINE RESISTORS. SUCCESSFUL PROPONENT TO CONFIRM ACTUAL COUNT OF END-OF-LINE RESISTORS ON SITE AND ADVISE DCC REPRESENTATIVE.
3. ISOLATION MODULES (LINE FAULT ISOLATORS) NOT SHOWN ON PLAN. PROVIDE AT ZONE BOUNDARIES AND FIRE SEPARATIONS PER CAN/ULC-S524. FOR BIDDING PROPOSES ASSUME 20 ISOLATION MODULES (LINE FAULT ISOLATORS).. SUCCESSFUL PROPONENT TO CONFIRM ACTUAL COUNT OF ZONE ISOLATION MODULES ON SITE AND ADVISE DCC REPRESENTATIVE.
5. FIRESTOP ALL OPENINGS IN FIRE RATED PARTITIONS USED FOR ELECTRICAL WORK.
6. ASBESTOS IS PRESENT IN THE AREA OF WORK. REFER TO DESIGNATED SUBSTANCES REPORT AVAILABLE FROM DCC REPRESENTATIVE UPON REQUEST.
7. EACH CONDUIT COMPLETE WITH DEDICATED BOND WIRE.
8. RUN INITIATING AND SIGNALLING CIRCUITS IN SEPARATE CONDUIT.
9. FIRE ALARM SIGNALLING CIRCUITS ARE SHOWN DIAGRAMMATICALLY. PROVIDE SUFFICIENT NUMBER OF CIRCUITS AND AMPLIFIERS TO SERVE NUMBER OF DEVICES SHOWN PLUS 25% SPARE CAPACITY.
10. QUANTITY OF CONDUCTORS TO INITIATING AND SIGNALLING DEVICES CAN VARY BASED ON MANUFACTURER SELECTED (SOME MANUFACTURER'S REQUIRE ADDITIONAL CONDUCTORS FOR FIRE DETECTOR RELAY BASES). PROVIDE FOR ADDITIONAL CIRCUIT CONDUCTORS PER MANUFACTURER SELECTED.
11. ADDRESSABLE LOOP CAPACITY VARIES BETWEEN FIRE ALARM MANUFACTURERS. DESIGN IS BASED ON 255 ADDRESSABLE POINTS PER LOOP. PROVIDE ADDITIONAL ADDRESSABLE LOOPS BASED ON LOOP CAPACITY OF MANUFACTURER SELECTED. ADDRESSABLE LOOPS SHALL SERVE NO MORE THAN 1 FLOOR LEVEL. PROVIDE 10% SPARE CAPACITY ON ADDRESSABLE LOOP.
12. BUILDING WILL BE OCCUPIED THROUGHOUT CONSTRUCTION. AFTER REMOVAL OF EXISTING PANEL, PROVIDE TEMPORARY HEAT DETECTORS IN AREA OF WORK UNTIL SPRINKLER PROTECTION IS AVAILABLE.
13. PHASING TO BE CARRIED OUT PER FIRE ALARM INITIATING LOOP. ONLY MOVING ONTO THE NEXT PHASE ONCE THE LOOP IS FULLY CHANGED TO OPERATE ON THE NEW SYSTEM, IS COMISSIONED AND VERIFIED.THE CONTRACTOR, ELECTRICAL CONTRACTOR AND FIRE ALARM CONTRACTOR WILL BE REQUIRED TO VALIDATE THE FIRE ALARM LOOPS, AND PROVIDE UPDATES/CHANGES TO THE PHASING STRATEGY TO DND/DCC FOR REVIEW AND APPROVAL. THE CONTRACTOR IS TO PROVIDE A DETAILED CONSTRUCTION SCHEDULE, INCLUDING SPECIFIC AREAS AND TIMES OF WORK, TO MINIMIZE DISRUPTION TO THE THE USERS. SPEAKERS, SPEAKER/STROBES AND NEW STROBES TO BE WIRED TO NEW PANEL AND COMISSIONED/VERIFIED BEFORE THE EXISTING PANEL BELLS ARE TAKEN OFFLINE..
14. STAIRWELL SPEAKERS SHALL BE CIRCUITED SEPARATELY FROM OTHER SPEAKERS ON THE FLOOR LEVEL. PROVIDE DEDICATED CIRCUITS.
15. ALL FIRE ALARM CIRCUITS TO BE CLASS 'A'. SEPARATE PRIMARY AND ALTERNATE WIRING PATH PER CAN/ULC-S524.
16. SIZE AMPLIFIERS TO PROVIDE MIN 20% SPARE CAPACITY ON SIGNALLING CIRCUITS.

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DATE: 2018/03/05

SUBJECT | SUJET
FIRE ALARM RISER DIAGRAM AND DETAILS

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COORDINATION: NM		FIRE | INCENDIE

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