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Government Services  
Canada

Travaux publics et  
Services gouvernementaux  
Canada

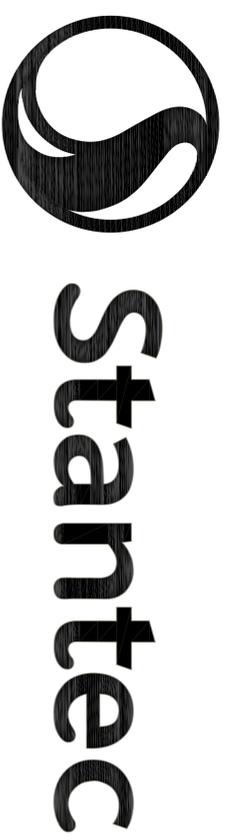
Architectural &  
Engineering  
Services

Services  
d'architecture et  
de genie

Western Region

Region de l'ouest

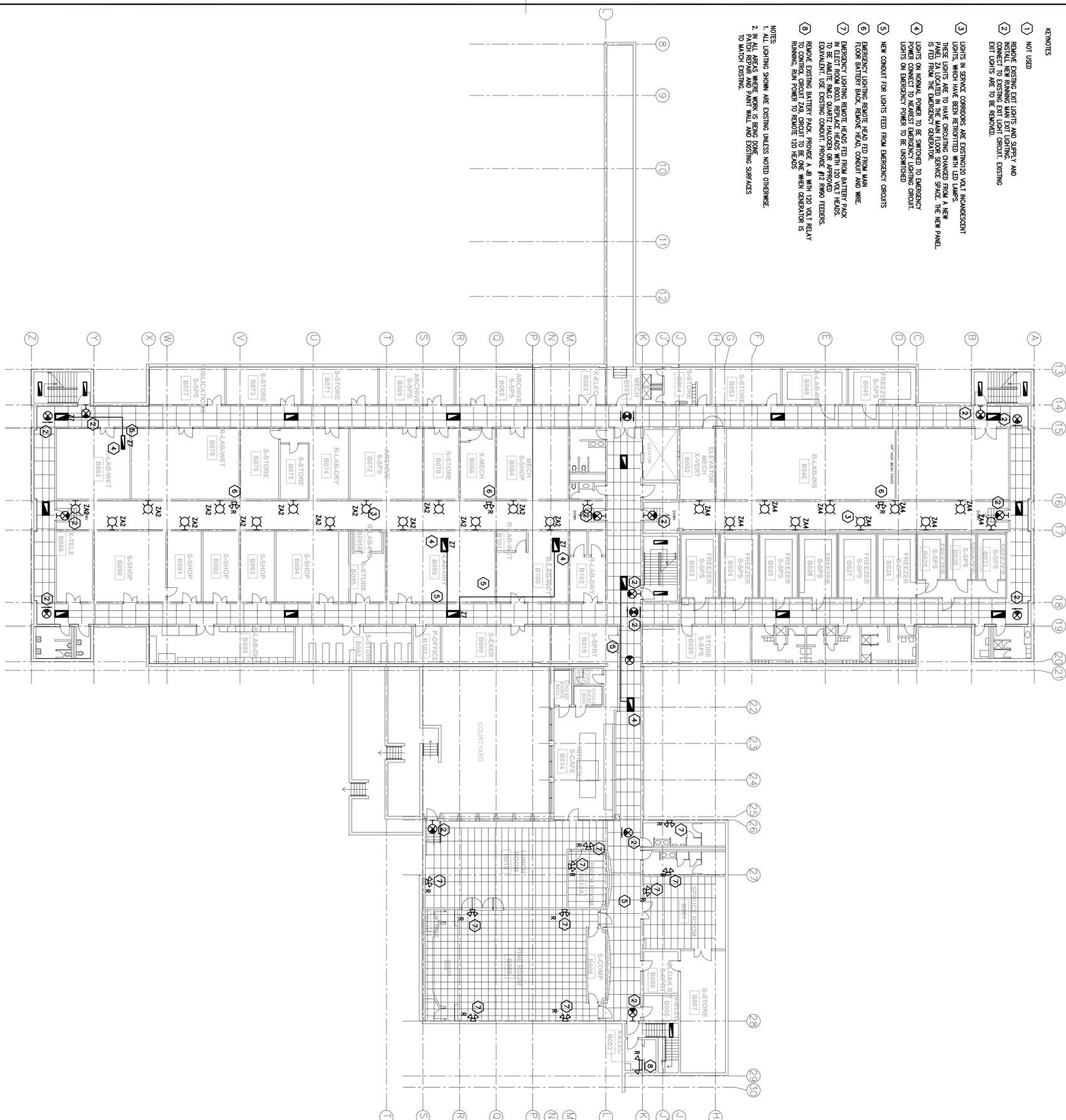
Northern Forestry Centre  
Natural Resources Canada  
FIRE ALARM SYSTEM AND  
EMERGENCY LIGHTING UPGRADE



Stantec Consulting Ltd.  
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Edmonton AB Canada  
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[www.stantec.com](http://www.stantec.com)

- REMARKS
- 1 NOT USED
  - 2 REMOVE EXISTING EXIT LIGHTS AND SUPPLY AND INSTALL NEW RUNNING DOWN EXIT LIGHTING. EXISTING EXIT LIGHTS ARE TO BE REMOVED.
  - 3 LIGHTS IN SERVICE CORRIDORS ARE EXISTING 220 VOLT MANAGEMENT LIGHTS, WHICH HAVE BEEN REWIRING CHANGED FROM A NEW PANEL. THESE LIGHTS ARE TO HAVE CIRCUITING CHANGED FROM A NEW PANEL. 5' HED. 2' WIDE ENERGY EFFICIENT.
  - 4 LIGHTS ON NORMAL POWER TO BE SWITCHED TO EMERGENCY POWER ON EMERGENCY POWER TO BE UNSWITCHED
  - 5 NEW CONDUIT FOR LIGHTS FEED FROM EMERGENCY CIRCUITS
  - 6 EMERGENCY LIGHTING REMOVE HEAD FEED FROM MAIN WIRE. FLOOR BATTERY PACK, REMOVE HEAD, CONDUIT AND WIRE.
  - 7 EMERGENCY LIGHTING REMOVE HEADS FEED FROM BATTERY PACK IN SELECT ROOM BROOM. REMOVE HEADS WITH 120 VOLT HEADS. EQUIVALENT. USE EXISTING CONDUIT PROVIDED #12 R900 FEEDERS.
  - 8 REMOVE EXISTING BATTERY PACK PROVIDE A 8' WITH 120 VOLT RELAY TO CONTROL CIRCUIT 724. CIRCUIT TO BE ONE WHEN GENERATOR IS RUNNING. RUN POWER TO REMOVE 120 HEADS

- NOTES
1. ALL LIGHTING SHOWN ARE EXISTING UNLESS NOTED OTHERWISE.
  2. IN ALL AREAS WHERE WORK IS BEING DONE.
  3. IN ALL AREAS WHERE PAINT WALL AND EXISTING SURFACES TO MAINTAIN DESIGN.



1 BASEMENT FLOOR PLAN - LIGHTING  
E101 1:200

FIRE ALARM SYMBOLS

E1	FIRE ALARM MANUAL STATION
E2	FIRE ALARM BELL c/w STROBE
E3	CEILING MOUNTED FIRE ALARM HORN SPEAKER
E4	WALL MOUNTED FIRE ALARM HORN SPEAKER
E5	CEILING MOUNTED FIRE ALARM HORN SPEAKER c/w STROBE
E6	WALL MOUNTED FIRE ALARM HORN SPEAKER c/w STROBE
E7	CEILING MOUNTED REMOTE EVACUATION STROBE
E8	WALL MOUNTED REMOTE EVACUATION STROBE
E9	CEILING MOUNTED FIRE ALARM SPEAKER
E10	WALL MOUNTED FIRE ALARM SPEAKER c/w STROBE
E11	WALL MOUNTED FIRE ALARM SPEAKER c/w STROBE
E12	WALL MOUNTED FIRE ALARM SPEAKER c/w STROBE
E13	WALL MOUNTED FIRE ALARM SPEAKER c/w STROBE
E14	WALL MOUNTED FIRE ALARM SPEAKER c/w STROBE
E15	WALL MOUNTED FIRE ALARM SPEAKER c/w STROBE
E16	WALL MOUNTED FIRE ALARM SPEAKER c/w STROBE
E17	WALL MOUNTED FIRE ALARM SPEAKER c/w STROBE
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E97	WALL MOUNTED FIRE ALARM SPEAKER c/w STROBE
E98	WALL MOUNTED FIRE ALARM SPEAKER c/w STROBE
E99	WALL MOUNTED FIRE ALARM SPEAKER c/w STROBE
E100	WALL MOUNTED FIRE ALARM SPEAKER c/w STROBE

LIGHTING PLAN SYMBOLS

[Symbol]	SURFACE MOUNTED OR SUSPENDED FLUORESCENT LUMINAIRE, 305x1220mm
[Symbol]	SURFACE MOUNTED OR SUSPENDED FLUORESCENT LUMINAIRE, 610x1220mm
[Symbol]	RECESSED FLUORESCENT LUMINAIRE, 305x1220mm
[Symbol]	RECESSED FLUORESCENT LUMINAIRE, 610x1220mm
[Symbol]	FLUORESCENT STRIP LUMINAIRE, 1220mm
[Symbol]	LUMINAIRE ON EMERGENCY CIRCUIT (INDICATED BY HALF SHADING)
[Symbol]	CEILING MOUNTED EXIT SIGN (TEXT ON SHADDED SIDES, ARROWS AS INDICATED)
[Symbol]	WALL MOUNTED EXIT SIGN (TEXT ON SHADDED SIDES, ARROWS AS INDICATED)
[Symbol]	EMERG. LIT. BATTERY PACK (WATTAGE AS SHOWN, # OF LAMPS AS SHOWN)
[Symbol]	CEILING MOUNTED EMERG. LIT. REMOTE HEAD (# OF LAMPS AS SHOWN)
[Symbol]	WALL MOUNTED EMERG. LIT. REMOTE HEAD (# OF LAMPS AS SHOWN)



Public Works Services Canada  
 Gouvernement du Canada  
 Western Region  
 Services publics  
 Services gouvernementaux Canada  
 Région de l'ouest

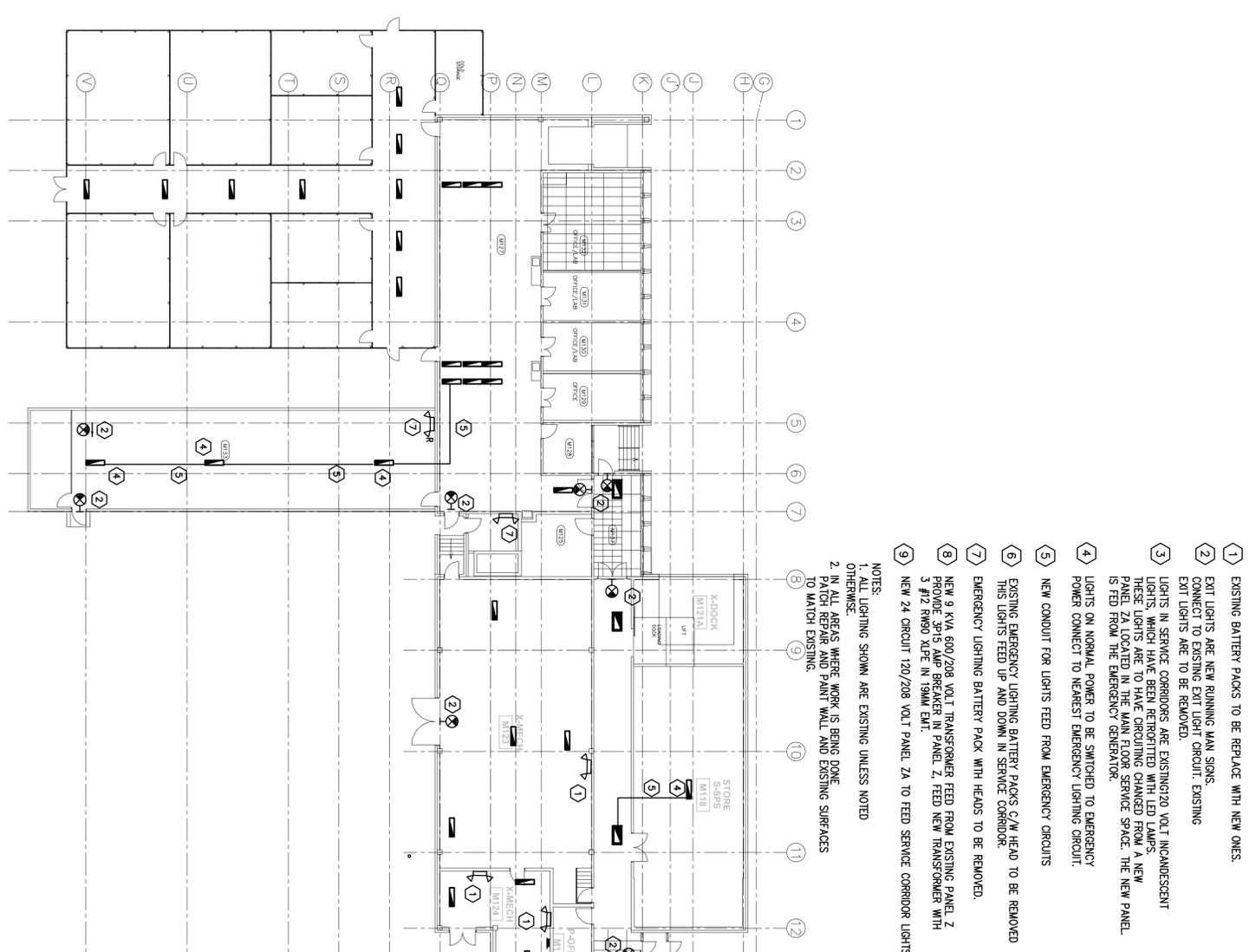


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Rev. No.	Description	Date
1	ISSUED FOR 50% CLIENT REVIEW	MAY 3, 2017
2	ISSUED FOR 95% CLIENT REVIEW	JUN 27, 2017
3	ISSUED FOR 100% CLIENT REVIEW	SEP 22, 2017
4	ISSUED FOR 100% CLIENT REVIEW	JUN 12, 2018

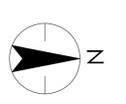
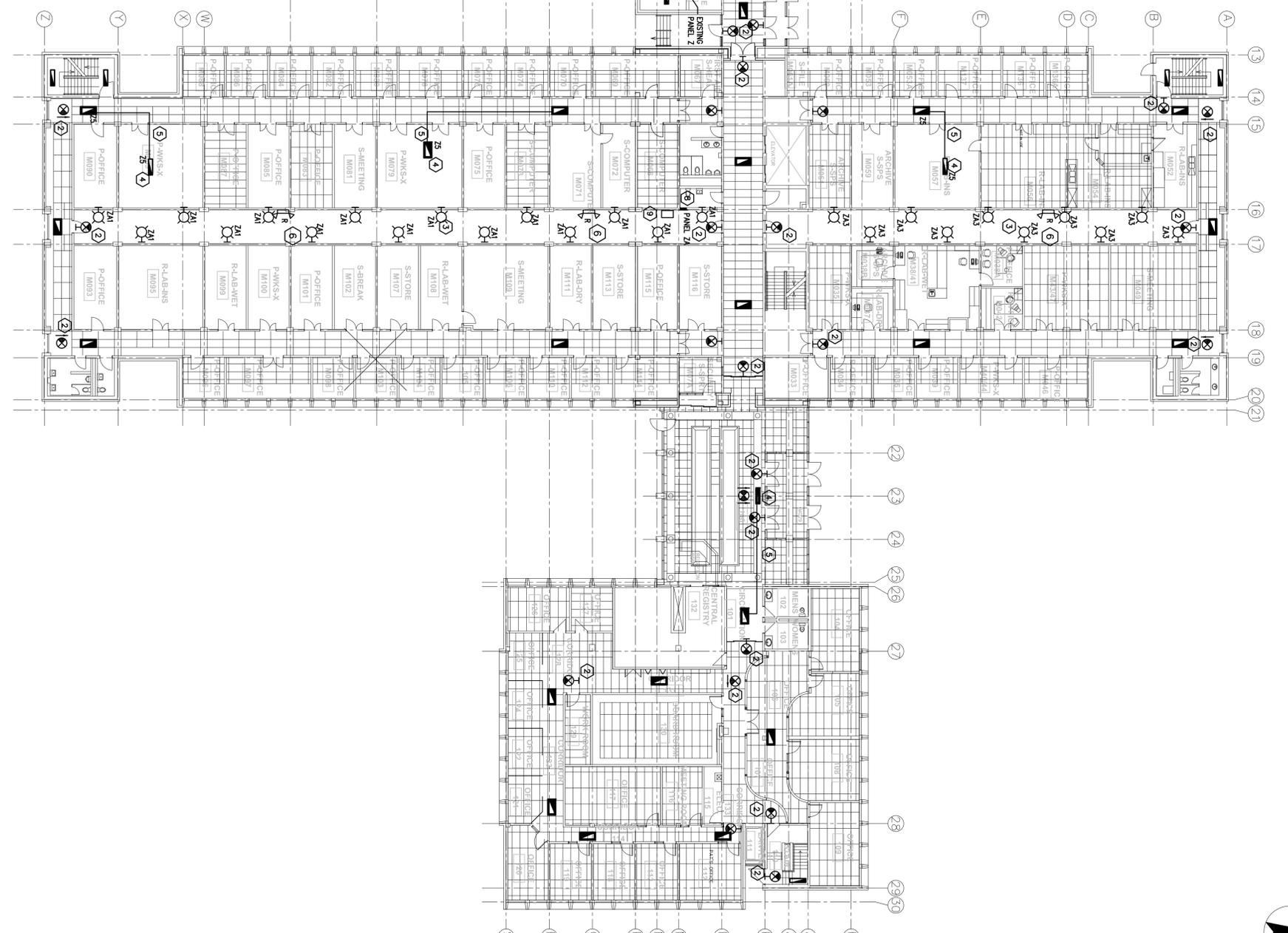
THIS DRAWING DEPICTS CONDUIT CONFIGURATION AND ROUTING BASED ON A PREVIOUS RECORD DRAWINGS AND IS SHOWN FOR INFORMATION PURPOSES ONLY. CONTRACTOR TO VERIFY AND PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.

Project title	E101
Client	Alberta
Location	Edmonton
Project description	Deferred Maintenance Program for Natural Resources of Canada (NRCon)
Client contact	Natural Resources Centre
Project manager	JK
Design team	AA
Drawn by	JC
Checked by	AA
Approved by	JK
Project date	2017 05 03
Project no.	R_077101
Drawing no.	E101



- 1 EXISTING BATTERY PACKS TO BE REPLACED WITH NEW ONES.
- 2 EXIT LIGHTS ARE NEW RUNNING MAIN SIGNS. CONNECT TO EXISTING EXIT LIGHT CIRCUIT. EXISTING EXIT LIGHTS ARE TO BE REMOVED.
- 3 LIGHTS IN SERVICE CORRIDORS ARE EXISTING 120 VOLT INCANDESCENT LIGHTS WHICH HAVE BEEN RETROFITTED WITH LED LAMPS. THESE LIGHTS ARE TO HAVE CIRCUITING CHANGED FROM A NEW PANEL ZA LOCATED IN THE MAIN FLOOR SERVICE SPACE. THE NEW PANEL IS FED FROM THE EMERGENCY GENERATOR.
- 4 LIGHTS ON NORMAL POWER TO BE SWITCHED TO EMERGENCY POWER CONNECT TO NEAREST EMERGENCY LIGHTING CIRCUIT.
- 5 NEW CONDUIT FOR LIGHTS FEED FROM EMERGENCY CIRCUITS
- 6 EXISTING EMERGENCY LIGHTING BATTERY PACKS C/W HEAD TO BE REMOVED THIS LIGHTS FEED UP AND DOWN IN SERVICE CORRIDOR.
- 7 EMERGENCY LIGHTING BATTERY PACK WITH HEADS TO BE REMOVED.
- 8 NEW 9 KVA 600/208 VOLT TRANSFORMER FEED FROM EXISTING PANEL Z PROVIDE 3PH 5 AMP BREAKER IN PANEL Z. FEED NEW TRANSFORMER WITH 3 #12 RW90 XLPE IN 19MM EMT.
- 9 NEW 24 CIRCUIT 120/208 VOLT PANEL ZA TO FEED SERVICE CORRIDOR LIGHTS

NOTES:  
 1. ALL LIGHTING SHOW ARE EXISTING UNLESS NOTED OTHERWISE.  
 2. IN ALL AREAS WHERE WORK IS BEING DONE PATCH REPAIR AND PAINT WALL AND EXISTING SURFACES TO MATCH EXISTING.



1 MAIN FLOOR FLOOR PLAN - LIGHTING  
 E102 1:200

**Public Works**  
 Government Services Canada  
 Services publics  
 Western Region  
 Travaux publics  
 Services gouvernementaux Canada  
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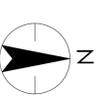
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1	ISSUED FOR 50% CLIENT REVIEW	MAY 3, 2017
2	ISSUED FOR 95% CLIENT REVIEW	JUN 22, 2017
3	ISSUED FOR 100% CLIENT REVIEW	SEP 22, 2017
4	ISSUED FOR 100% CLIENT REVIEW	JUN 12, 2018

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Project title	Edmonton Alberta Deferred Maintenance Program for Natural Resources of Canada (NRCom) Northern Forestry Centre
Project no.	2017 05 03
Project date	2017 05 03
Project no.	R. 077101
Project no.	E102

designed by	one par
drawn by	JC
checked by	AA
approved by	JK
project date	2017 05 03
project no.	R. 077101
drawing no.	E102



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 Gouvernement du Canada  
 Western Region  
 Travaux publics  
 Services gouvernementaux Canada  
 Services d'architecture et de génie  
 Région de l'Ouest

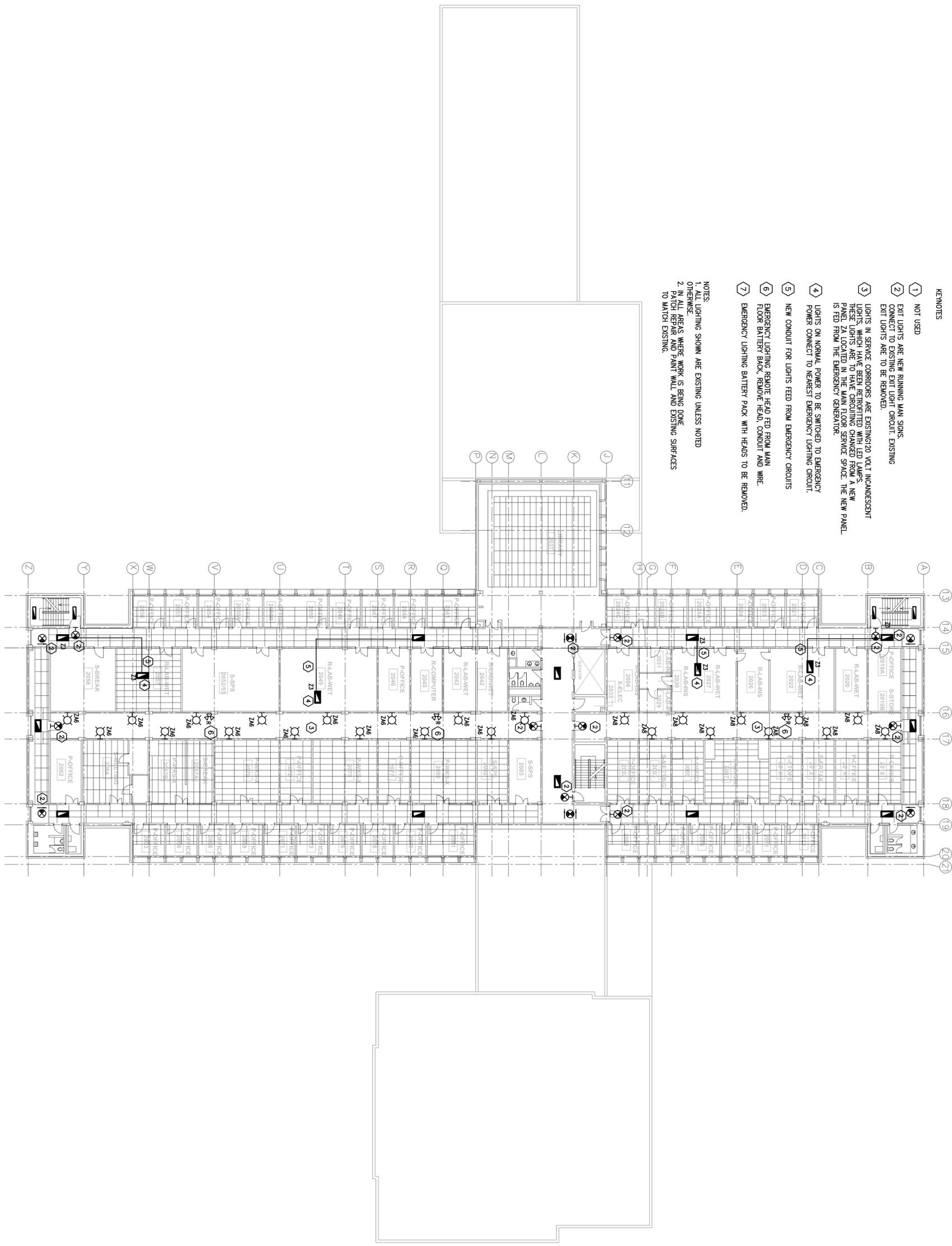


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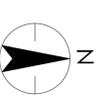
Project title	Edmonton Alberta Deferred Maintenance Program for Natural Resources Oil Canada (NRCon) Northern Forestry Centre
Project no.	077101
Drawing title	SECOND FLOOR PLAN LIGHTING
Drawn by	JC
Checked by	AA
Approved by	JK
Project date	2017 05 03
Project no.	R. 077101
Drawing no.	E103



- KEYNOTES**
- 1 NOT USED
  - 2 EXIT LIGHTS ARE NEW RUNNING MAIN SIGNS. CONNECT TO EXISTING EXIT LIGHT CIRCUIT. EXISTING EXIT LIGHTS ARE TO BE REMOVED.
  - 3 LIGHTS IN SERVICE CORRIDORS ARE EXISTING 120 VOLT INCANDESCENT LIGHTS. THESE LIGHTS ARE TO HAVE CIRCUITING CHANGED FROM A NEW PANEL Z1A LOCATED IN THE MAIN FLOOR SERVICE SPACE. THE NEW PANEL IS FED FROM THE EMERGENCY GENERATOR.
  - 4 LIGHTS ON NORMAL POWER TO BE SWITCHED TO EMERGENCY POWER CONNECT TO NEAREST EMERGENCY LIGHTING CIRCUIT.
  - 5 NEW CONDUIT FOR LIGHTS FEED FROM EMERGENCY CIRCUITS
  - 6 EMERGENCY LIGHTING REQUOTE HEAD FED FROM MAIN FLOOR BATTERY BACK, REMOVE HEAD, CONDUIT AND WIRE.
  - 7 EMERGENCY LIGHTING BATTERY PACK WITH HEADS TO BE REMOVED.
- NOTES:**
1. ALL LIGHTING SHOWN ARE EXISTING UNLESS NOTED OTHERWISE.
  2. IN ALL AREAS WHERE WORK IS BEING DONE PATCH REPAIR AND PAINT WALL AND EXISTING SURFACES TO MATCH EXISTING.

1 SECOND FLOOR PLAN - LIGHTING  
 E103 1:200





Public Works  
 Government Services Canada  
 Travaux publics  
 Services gouvernementaux Canada  
 Région de l'ouest



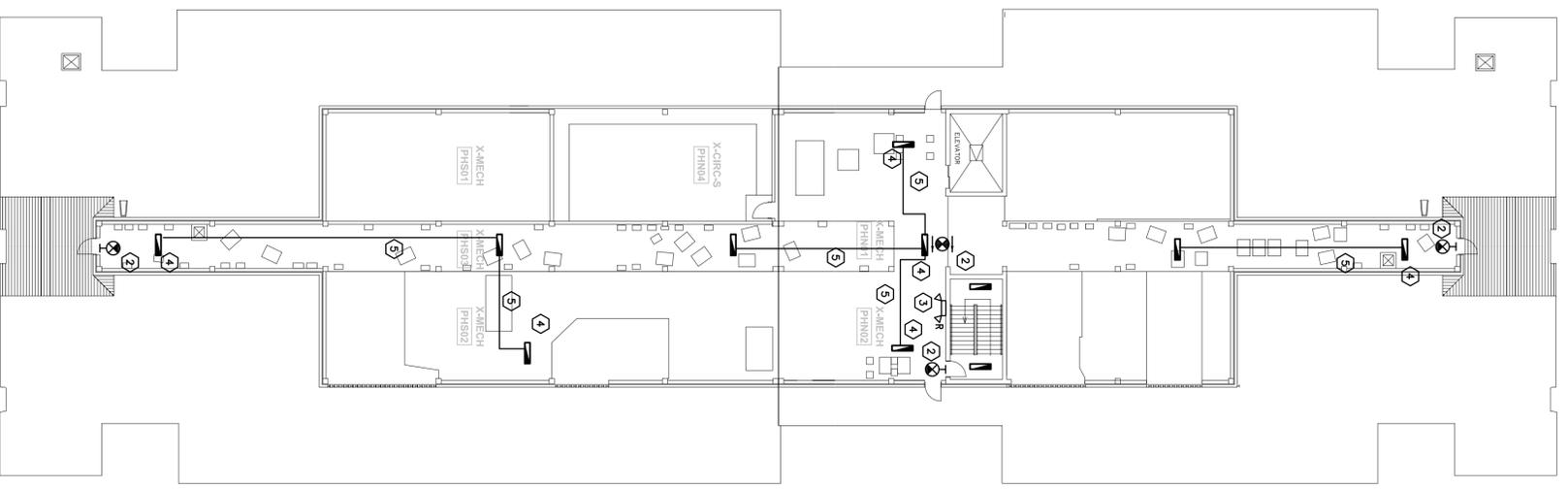
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3	ISSUED FOR 100% CLIENT REVIEW	SEP 22, 2017
4	ISSUED FOR 100% CLIENT REVIEW	JUN 12, 2018

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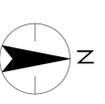
<p>Project title                  Edmonton                  Deferred Maintenance Program for                  Natural Resources of Canada (NRCon)                  Northern Forestry Centre</p>	
<p>consultant</p>	<p>Project title                  Edmonton                  Deferred Maintenance Program for                  Natural Resources of Canada (NRCon)                  Northern Forestry Centre</p>

<p>designed by                  conic par</p>	<p>drawn by                  JC</p>
<p>checked by                  AA</p>	<p>approved by                  JK</p>
<p>project date                  2017 05 03</p>	<p>project no.                  R. 077101</p>
<p>drawing no.                  E105</p>	<p>drawing no.                  E105</p>



- KEYNOTES**
- 1 NOT USED
  - 2 EXIT LIGHTS ARE NEW RUNNING MAIN SIGNS. CONNECT TO EXISTING EXIT LIGHT CIRCUIT. EXISTING EXIT LIGHTS ARE TO BE REMOVED.
  - 3 EMERGENCY LIGHT PACK TO BE REMOVED
  - 4 LIGHTS ON NORMAL POWER TO BE SWITCHED TO EMERGENCY POWER. CONNECT TO NEAREST EMERGENCY LIGHTING CIRCUIT. NEW CONDUIT FOR LIGHTS FEED FROM EMERGENCY CIRCUITS
  - 5
- NOTES**
- 1 ALL LIGHTING SHOWN ARE EXISTING UNLESS NOTED OTHERWISE.
  - 2 IN ALL AREAS WHERE WORK IS BEING DONE PATCH REPAIR AND PAINT WALL AND EXISTING SURFACES TO MATCH EXISTING.

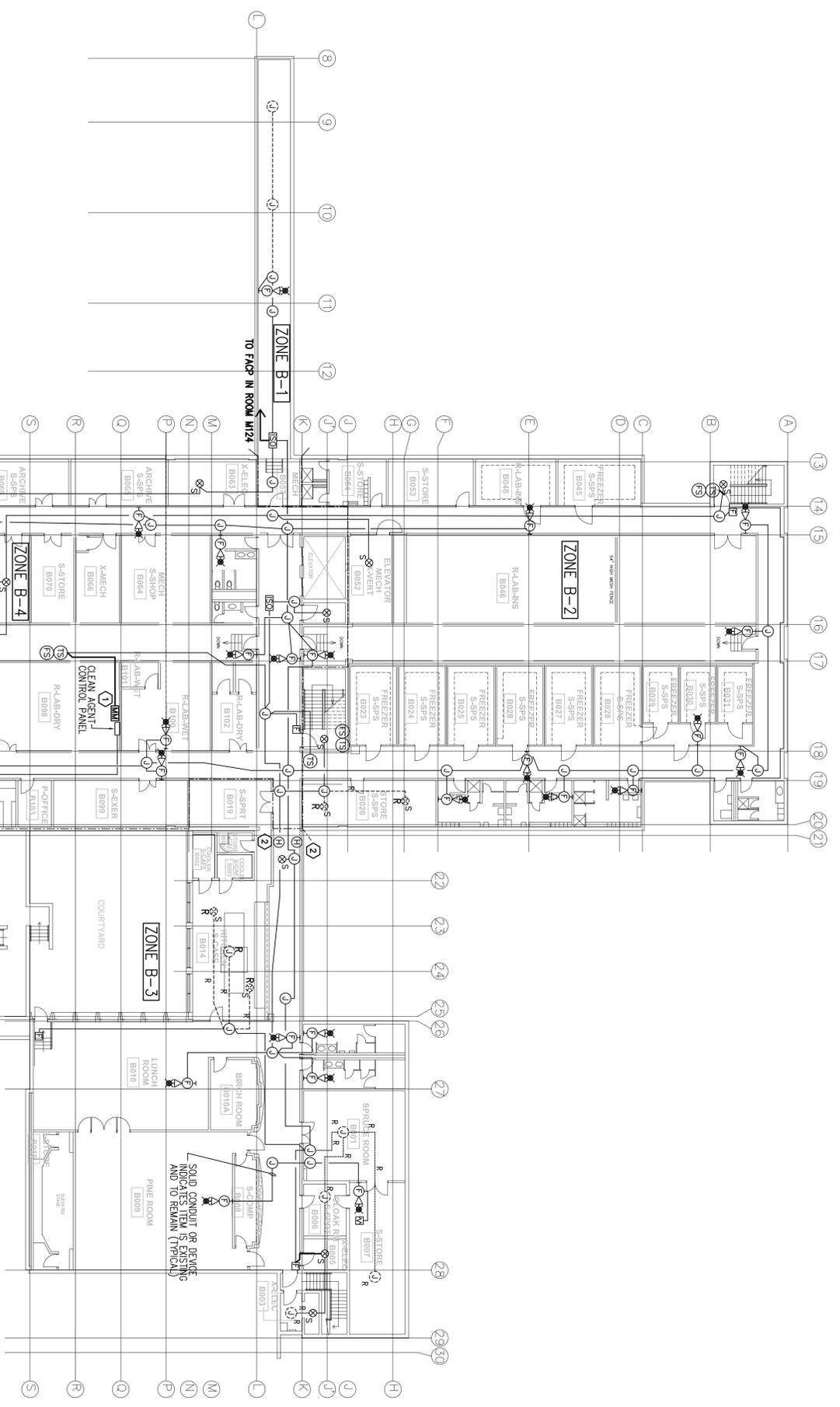
1 PENTHOUSE FLOOR PLAN - LIGHTING  
 E105 1:200



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**GENERAL NOTES**  
 1 DASHED LINES INDICATE CONDUIT TO BE REMOVED.

**KEY NOTES**  
 1 PROVIDE NEW MONITOR MODULE AT CLEAN AGENT PANEL AND CONNECT TO NEW FIRE ALARM PANEL FOR MONITORING OF:  
 .1 ALARM CONDITION  
 .2 SUPERVISORY CONDITION  
 .3 TROUBLE CONDITION  
 2 CONNECT EXISTING DOOR HOLD OPEN DEVICES TO NEW FIRE ALARM PANEL.  
 3 SMOKE DETECTORS ASSOCIATED WITH THE CLEAN AGENT ARE TO REMAIN WITH NO MODIFICATIONS.

**BASEMENT FLOOR PLAN  
 FIRE ALARM**

Project title	Edmonton Deferred Maintenance Program for Natural Resources of Canada (NRCon) Northern Forestry Centre
Drawn by	JC
Checked by	AA
Approved by	JK
Project date	2017 05 03
Project no.	R. 077101
Drawing no.	E106

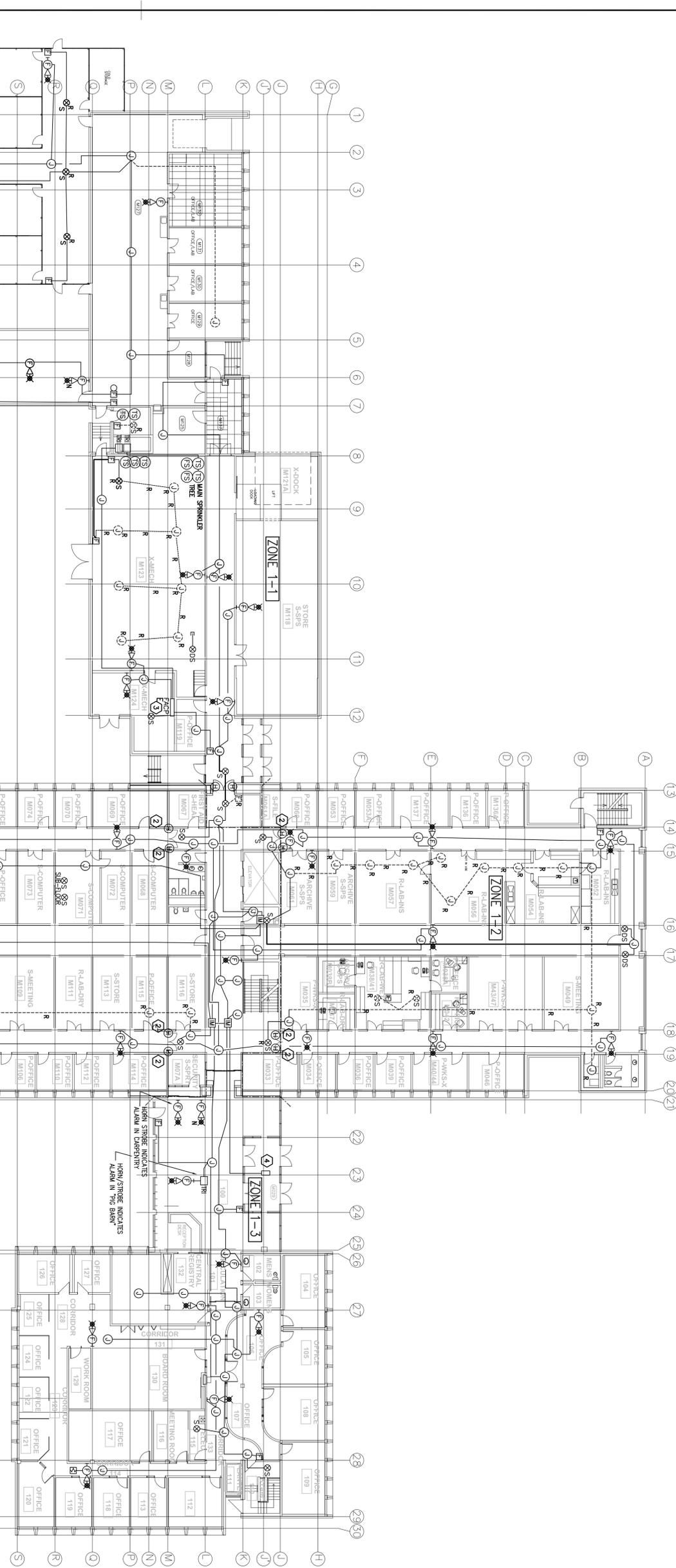
**1 BASEMENT FLOOR PLAN - FIRE ALARM**  
 E106 1:200



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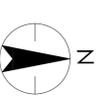
**GENERAL NOTES**  
 1 DASHED LINES INDICATE CONDUIT TO BE REMOVED.

**KEY NOTES**

- 1 PROVIDE NEW MONITOR MODULE AT CLEAN AGENT PANEL AND CONNECT TO NEW FIRE ALARM PANEL FOR MONITORING OF:
  1. ALARM CONDITION
  2. TROUBLE CONDITION
  3. TROUBLE CONDITION
- 2 CONNECT EXISTING DOOR HOLD OPEN DEVICES TO NEW FIRE ALARM PANEL.
- 3 EXISTING FIRE ALARM PANEL TO BE REMOVED AND NEW PANEL TO BE INSTALLED AT THE START OF THE PROJECT. CONNECT EXISTING FIRE ALARM ZONES TO NEW PANEL. VERIFY THE SYSTEM DURING CONSTRUCTION WORK ON ONE ZONE AT A TIME AND VERIFY SYSTEM WHEN EACH ZONE IS COMPLETED TO MONITOR WHEN A FIRE WATCH IS REQUIRED TO MONITOR WHEN A FIRE WATCH WHEN A FIRE WATCH IS REQUIRED.
- 4 EXISTING REMOTE ANNUNCIATOR AND PASSIVE GRAPHIC TO BE REMOVED AND REPLACED WITH NEW REMOTE ANNUNCIATOR AND PASSIVE GRAPHIC.

**1 MAIN FLOOR PLAN - FIRE ALARM**  
 E107 1:200

Project title	Edmonton Alberta Deferred Maintenance Program for Natural Resources of Canada (NRCan) Northern Forestry Centre
Project no.	R. 077101
Project date	2017 05 03
Drawn by	JC
Checked by	AA
Approved by	JK
Scale	1:200
Sheet no.	E107



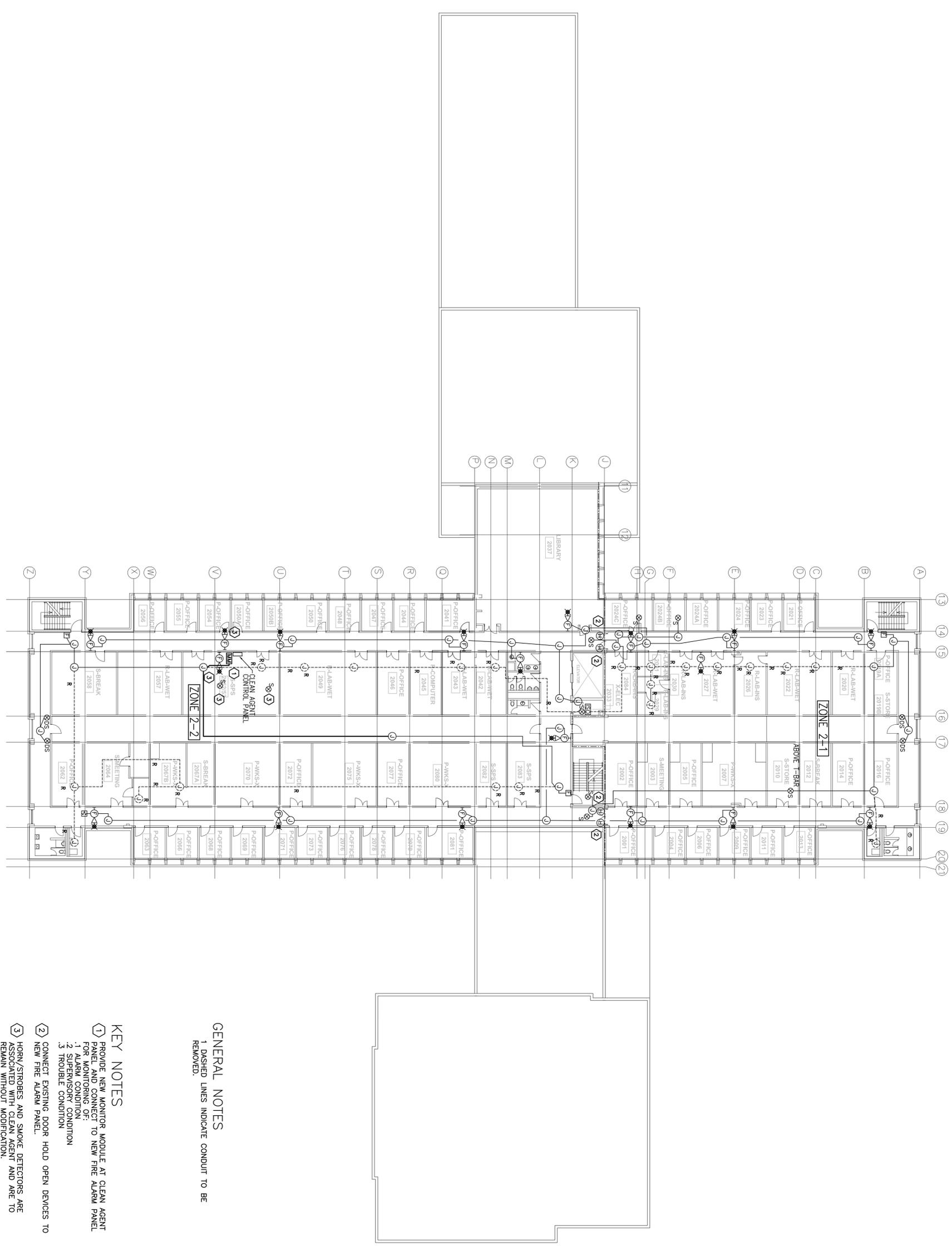
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Rev. No.	Description	Date
1	ISSUED FOR 50% CLIENT REVIEW	MAY 3, 2017
2	ISSUED FOR 95% CLIENT REVIEW	JUN 27, 2017
3	ISSUED FOR 100% CLIENT REVIEW	SEP 22, 2017
4	ISSUED FOR 100% CLIENT REVIEW	JUN 12, 2018

THIS DRAWING DEPICTS CONDUIT CONFIGURATION AND ROUTING BASED ON A PREVIOUS RECORD DRAWINGS AND IS SHOWN FOR INFORMATION PURPOSES ONLY. CONTRACTOR TO VERIFY AND PROVIDE ALL CONDUIT AND WIRING TO OPERATIONAL SYSTEM.

Project title	Edmonton Alberta Deferred Maintenance Program for Natural Resources Canada (NRCan) Northern Forestry Centre
Client	
Consultant	

designed by	one per
drawn by	JC
checked by	AA
approved by	JK
project date	2017 05 03
project no.	R. 077101
drawing no.	E108



**1 SECOND FLOOR PLAN - FIRE ALARM**  
 E108 1:200

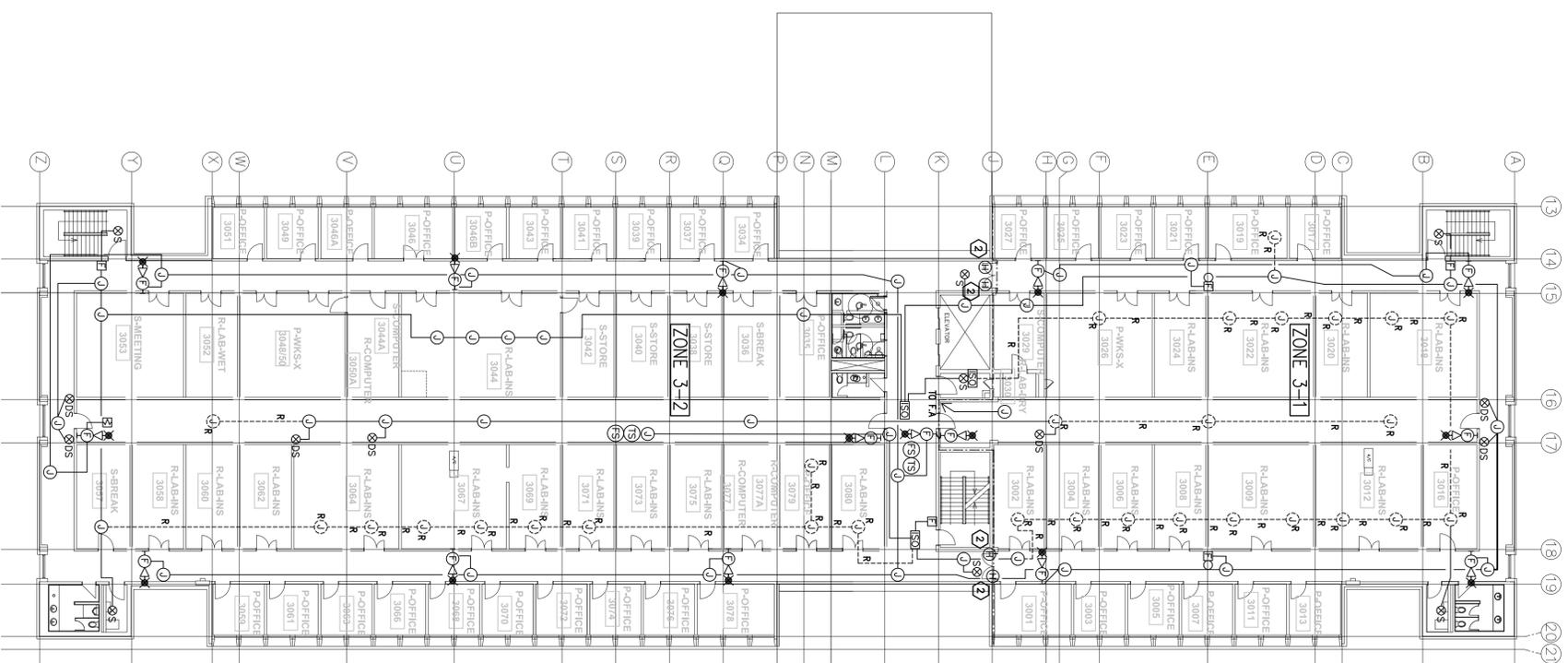
**GENERAL NOTES**

- 1 DASHED LINES INDICATE CONDUIT TO BE REMOVED.

**KEY NOTES**

- 1 PROVIDE NEW MONITOR MODULE AT CLEAN AGENT PANEL AND CONNECT TO NEW FIRE ALARM PANEL FOR MONITORING OF:
  - 1. ALARM CONDITION
  - 2. SUPERVISORY CONDITION
  - 3. TROUBLE CONDITION
- 2 CONNECT EXISTING DOOR HOLD OPEN DEVICES TO NEW FIRE ALARM PANEL.
- 3 HORN/STROBES AND SMOKE DETECTORS ARE ASSOCIATED WITH CLEAN AGENT AND ARE TO REMAIN WITHOUT MODIFICATION.

**SECOND FLOOR PLAN  
 FIRE ALARM**



**1** THIRD FLOOR PLAN - FIRE ALARM  
E109 1:200

**GENERAL NOTES**  
1. DASHED LINES INDICATE CONDUIT TO BE REMOVED.

**KEY NOTES**  
1. PROVIDE NEW MONITOR MODULE AT CLEAN AGENT PANEL AND CONNECT TO NEW FIRE ALARM PANEL FOR MONITORING OF:  
1. ALARM CONDITION  
2. SUPERVISORY CONDITION  
3. TROUBLE CONDITION  
2. CONNECT EXISTING DOOR HOLD OPEN DEVICES TO NEW FIRE ALARM PANEL.



**Public Works Services Canada**  
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