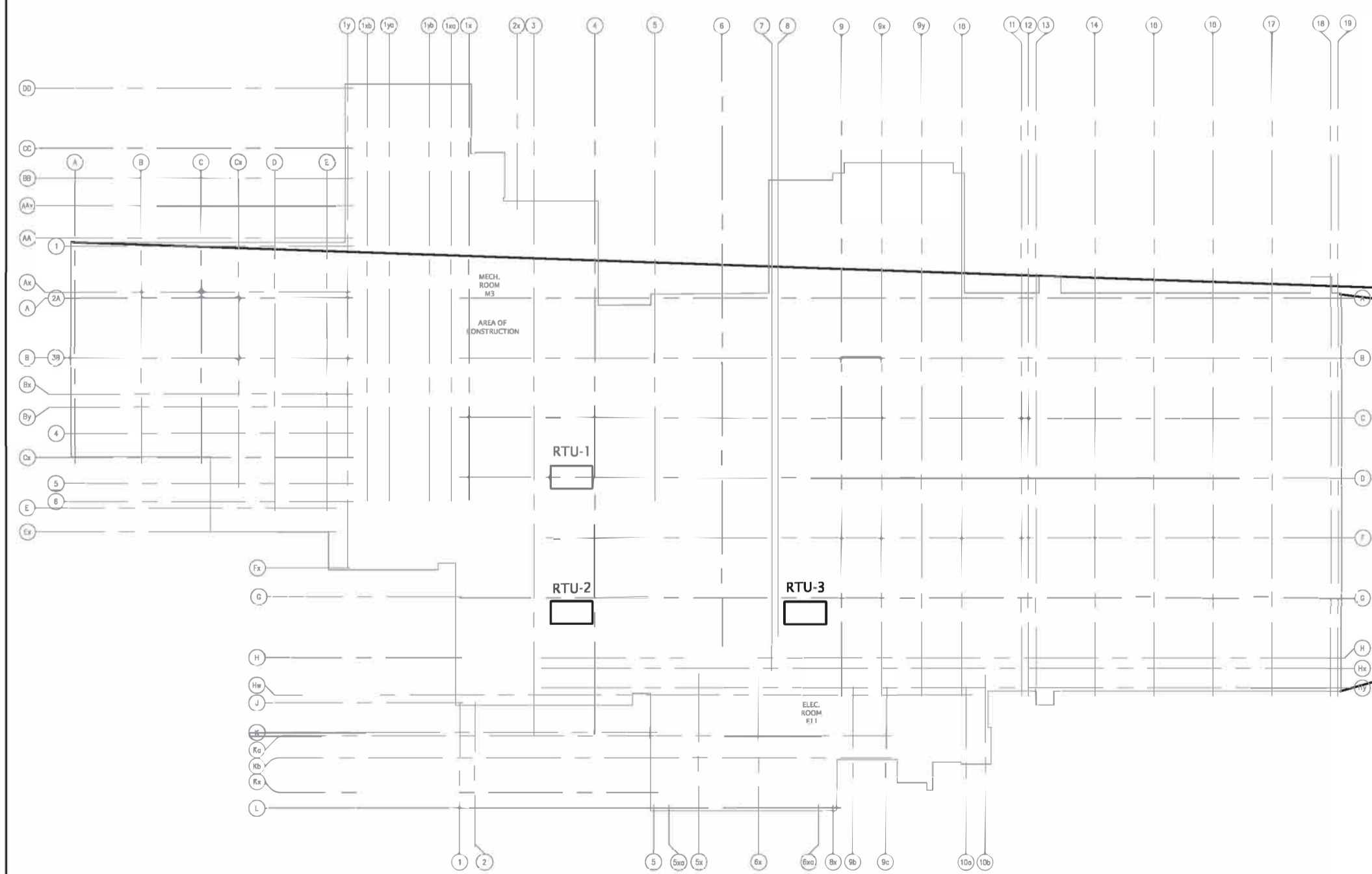


DAVID FLORIDA LABORATORY

BUILDING 65, SHIRLEY'S BAY

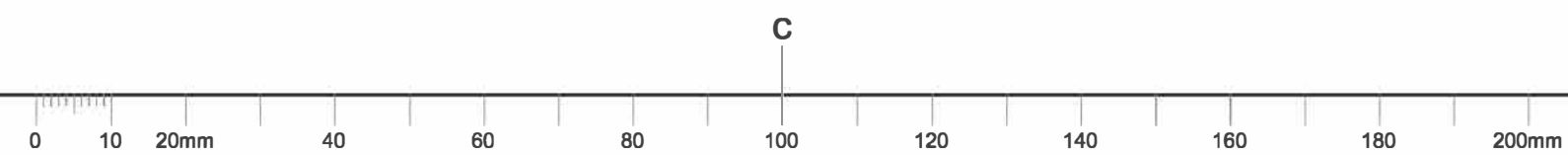
PHASE 2

RTU 1, 2, 3 REPLACEMENT



DRAWING LIST	
DRAWING	DESCRIPTION
G1	DRAWING LIST, & SITE KEYPLAN
MECHANICAL	
M1	MECHANICAL GENERAL NOTES, LEGEND, SCHEDULES & DETAILS
M2	ROOF LEVEL HVAC DEMOLITION
M3	ROOF LEVEL HVAC NEW WORK
M4	THIRD LEVEL HVAC DEMOLITION & NEW WORK
ELECTRICAL	
E1	ELECTRICAL GENERAL NOTES, LEGENDS, AND SCHEDULES
E2	ELECTRICAL SINGLE LINE DIAGRAM AND BASEMENT LEVEL KEYPLAN
E3	PARTIAL 2ND & 3RD LVL POWER & SYSTEMS DEMOLITION & NEW WORK
E4	PARTIAL 4TH LVL POWER & SYSTEMS DEMOLITION & NEW WORK

1 ROOF LEVEL KEY PLAN
G1 Scale: 1:500



 Canadian Space Agency / Agence spatiale canadienne
ÉRIC VACHON
 Director, Security & Facilities
M. FARID, P. Eng.
 Project Manager


ProEng
 CONSULTING INC.
 Building and Energy Engineers
 1361 101-899 Bayview Dr., Downsview, ON, Canada, M3J 5R1
 T: 416-493-8800
 www.proengconsulting.com

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revisions	description	date
03	Re-issued for Permit/Tender	2020.05.22
02	Issued for Permit/Tender	2017.08.09
01	Issued for Review	2017.06.28

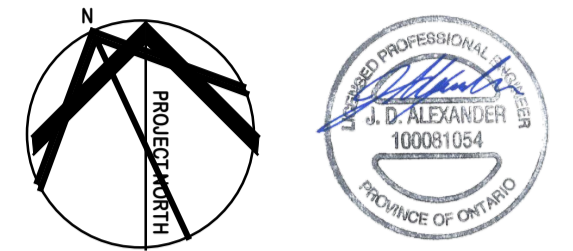
A detail no. / no. du détail
 B location drawing no. / sur dessin no.
 C drawing no. / dessin no.

project / projet
PHASE 2
RTU 1, 2, 3 REPLACEMENT
 ADDRESS / dessin

DRAWING LIST, & SITE KEYPLAN

Designed By	M.LACHOWICZ	Conçu par	
Date		(yyyy/mm/dd)	
Drawn By	P.DESJARDINS	Dessiné par	
Date		(yyyy/mm/dd)	
Reviewed By	M.LACHOWICZ	Examiné par	
Date		(yyyy/mm/dd)	
Approved By	M.LACHOWICZ	Approuvé par	
Date		(yyyy/mm/dd)	
Tender	M.LACHOWICZ	Soumission	
Project Manager		Administrateur de projets	
Project no.	CSA15-M7b	No. du projet	
		2016-085	
Drawing no.	G1	No. du dessin	

ÉRIC VACHON
 Director, Security & Facilities
M. FARID, P. Eng.
 Project Manager



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02	Issued for Permit/Tender	2017.08.09
01	Issued for Review	2017.06.28

A C	A detail no. no. du detail	A B C	A location drawing no. sur dessin no.
			C drawing no. dessin no.

project project

PHASE 2
RTU 1, 2, 3 REPLACEMENT

ADDRESS

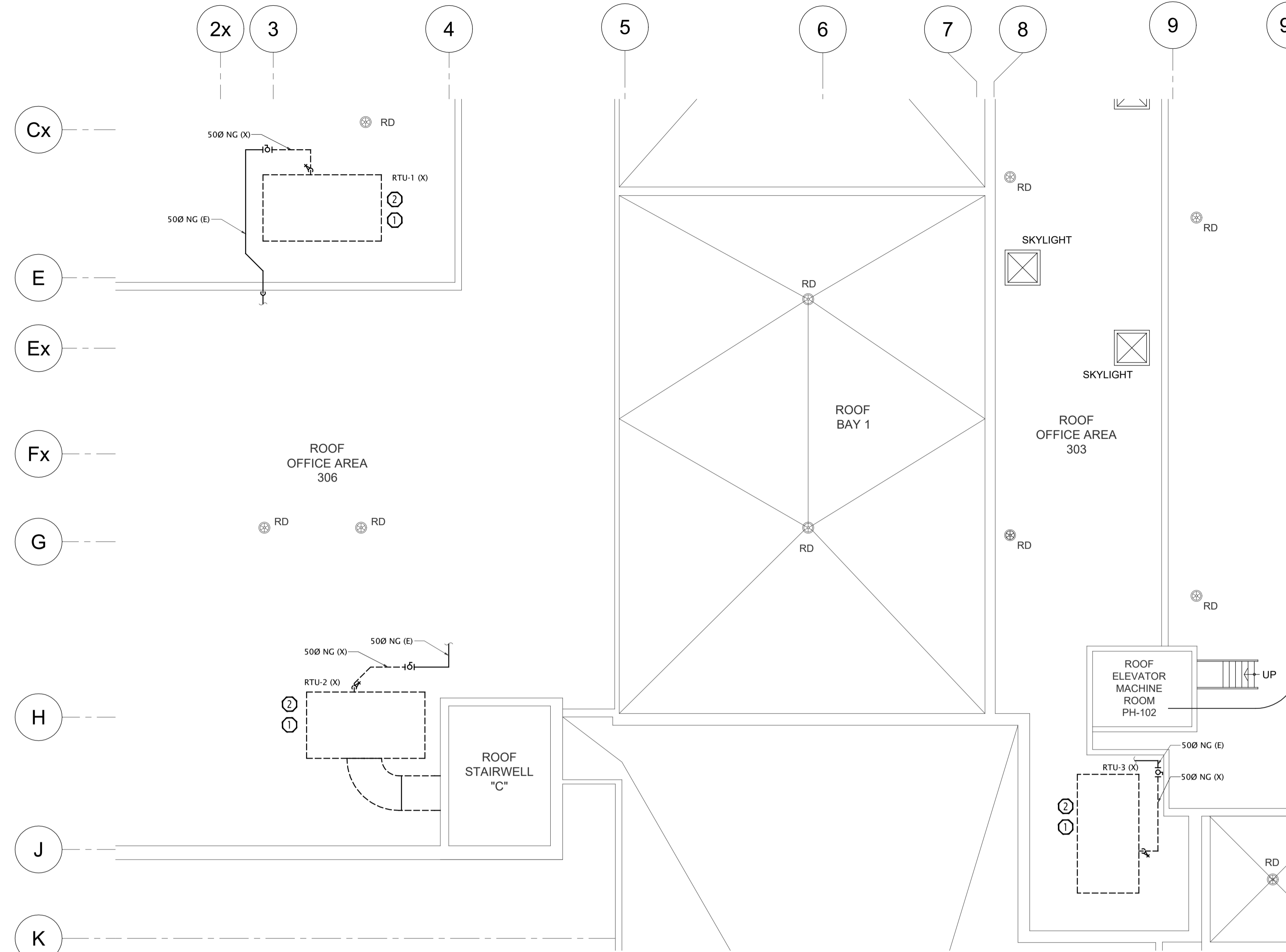
drawing dessin

ROOF LEVEL
HVAC
DEMOLITION

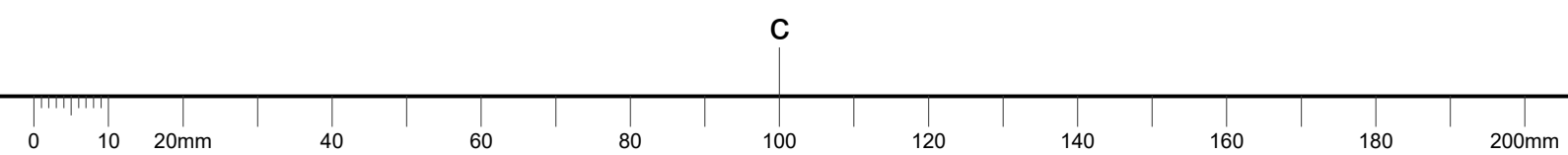
Designed By	J.ALEXANDER	Conçu par	J.ALEXANDER
Date		(yyyy/mm/dd)	
Drawn By	R.CAMERON	Dessiné par	R.CAMERON
Date		(yyyy/mm/dd)	
Reviewed By	J.ALEXANDER	Examiné par	J.ALEXANDER
Date		(yyyy/mm/dd)	
Approved By	J.ALEXANDER	Approuvé par	J.ALEXANDER
Date		(yyyy/mm/dd)	
Tender	M. FARID	Soumission	M. FARID
Project Manager	M. FARID	Administrateur de projets	M. FARID
Project no.	CSA15-M7b	No. du projet	CSA15-M7b
			2016-065
Drawing no.	M2	No. du dessin	M2

DESCRIPTION OF HVAC DEMOLITION:

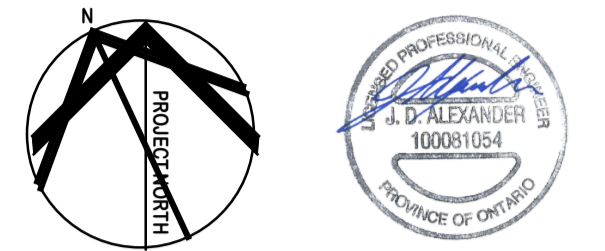
- 1 CONTRACTOR SHALL RETAIN BASE BUILDING CONTROLS CONTRACTOR TO REMOVE RTU CONTROL WIRING AND RETAIN FOR REUSE.
- 2 REMOVE EXISTING ROOFTOP UNIT C/W ASSOCIATED DUCTWORK, NATURAL GAS PIPING & ACCESSORIES. ROOF CURB TO REMAIN.
- 3 CONTRACTOR SHALL ALLOW FOR PHASED REPLACEMENT OF RTUs. REFER TO PHASING DESCRIPTION & SPECIFICATIONS FOR MORE DETAILS.



1 ROOF HVAC DEMOLITION
 M2 Scale: 1:100



ÉRIC VACHON
 Director, Security & Facilities
M. FARID, P. Eng.
 Project Manager



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03	Re-issued for Permit/Tender	2020.05.22
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01	Issued for Review	2017.06.28

A	A detail no.	A
C	no. du detail	B
	B location drawing no.	C
	sur dessin no.	
	C drawing no.	
	dessin no.	

project project

PHASE 2
RTU 1, 2, 3 REPLACEMENT

ADDRESS

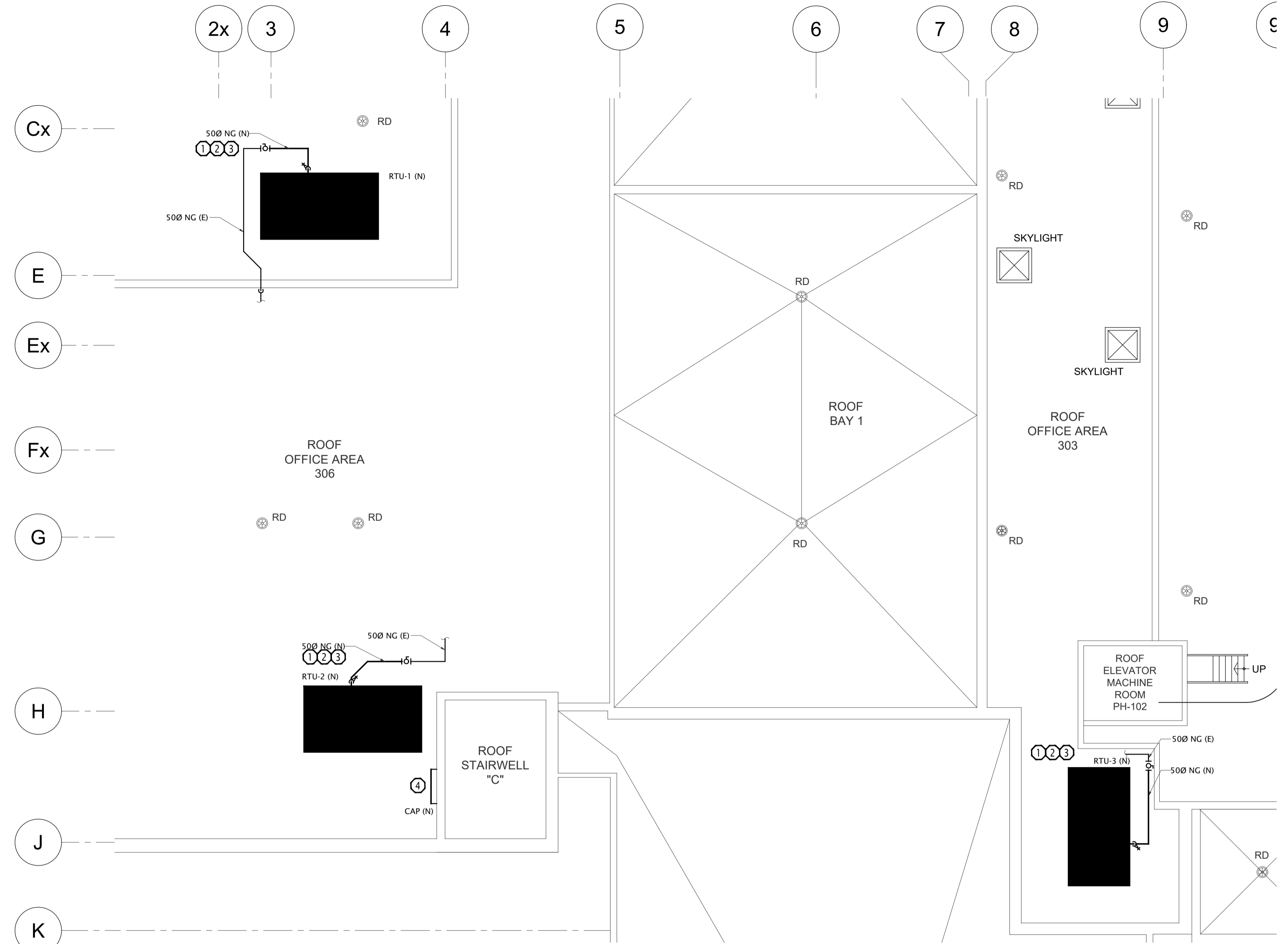
drawing dessin

ROOF LEVEL
HVAC
NEW WORK

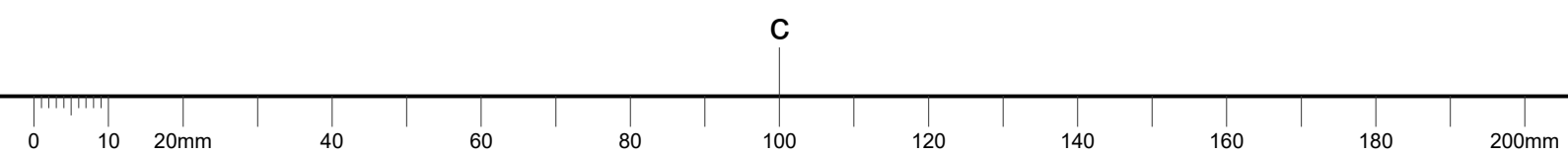
Designed By	J.ALEXANDER	Conçu par	
Date		(yyyy/mm/dd)	
Drawn By	R.CAMERON	Dessiné par	
Date		(yyyy/mm/dd)	
Reviewed By	J.ALEXANDER	Examiné par	
Date		(yyyy/mm/dd)	
Approved By	J.ALEXANDER	Approuvé par	
Date		(yyyy/mm/dd)	
Tender	M. FARID	Soumission	
Project Manager	Administrateur de projets		
Project no.	CSA15-M7b	No. du projet	
		2016-065	
Drawing no.	M3	No. du dessin	

DESCRIPTION OF HVAC NEW WORK:

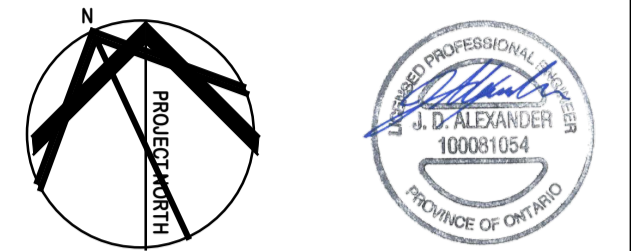
- INSTALL CONTRACTOR & DEPARTMENTAL REPRESENTATIVE SUPPLIED ROOFTOP UNITS & ACCESSORIES & PROVIDE ASSOCIATED DUCTWORK, NATURAL GAS PIPING & ACCESSORIES.
- PROVIDE NEW INSULATED SEISMIC ADAPTOR ROOF CURBS FOR RTU-1, 2, 3.
- CONNECT NEW RTU PACKAGED CONTROLLER TO EXISTING WIRING. ALL CONTROLS WORK SHALL BE COMPLETED BY BASE BUILDING CONTROLS CONTRACTOR. PROVIDE JOHNSON CONTROLS MODULE A419 INTERLOCKED TO UNIT TO AVOID UNIT LOCK OUT ON DUCT HIGH TEMPERATURE. CONTROLS CONTRACTOR SHALL WIRE IN THE FOLLOWING FIELD SENSORS TO RTU CONTROLLER:
 - RETURN AIR TEMPERATURE SENSOR
 - SUPPLY DUCT PRESSURE SENSOR
 - BUILDING PRESSURE SENSOR
 - SUPPLY AIR TEMPERATURE SENSOR
 - OUTDOOR AIR TEMPERATURE SENSOR
- PROVIDE 100MM THICK INSULATED CAP ON EXISTING DUCTWORK. MAKE WATER/AIR TIGHT.
- CONTRACTOR SHALL ALLOW FOR PHASED REPLACEMENT OF RTUS. REFER TO PHASING DESCRIPTION & SPECIFICATIONS FOR MORE DETAILS.
- REFER TO DETAIL 1/M1 FOR ROOFTOP UNIT NATURAL GAS CONNECTION DETAIL.
- REFER TO CONTROLS SPECIFICATION FOR DETAILS.



1 ROOF HVAC NEW WORK
 M3 Scale: 1:100



ÉRIC VACHON
 Director, Security & Facilities
M. FARID, P. Eng.
 Project Manager



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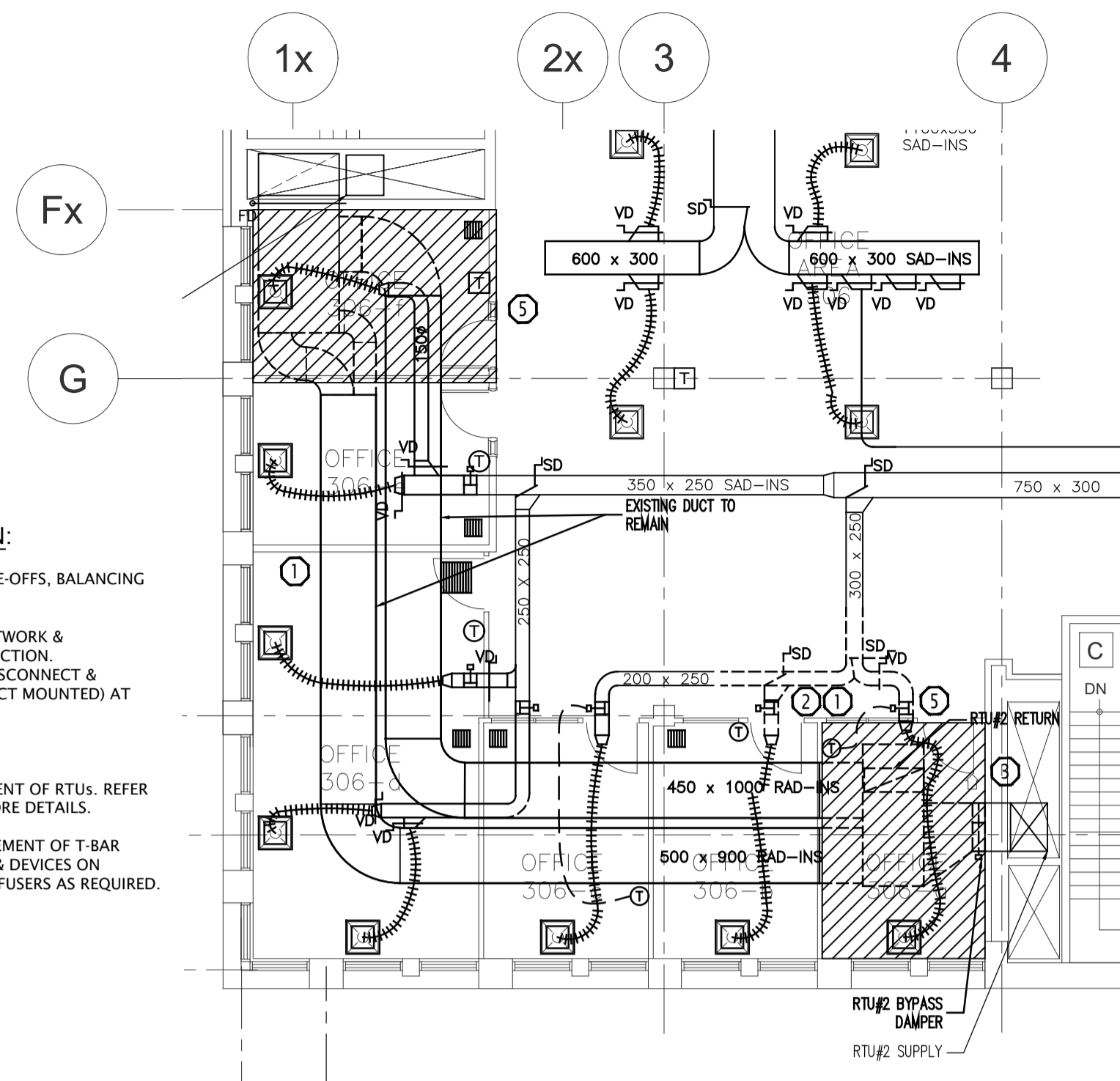
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03	Re-issued for Permit/Tender	2020.05.22
02	Issued for Permit/Tender	2017.08.09
01	Issued for Review	2017.06.28

A C	A detail no. no. du detail B location drawing no. sur dessin no. C drawing no. dessin no.	A B C
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project / projet
PHASE 2
RTU 1, 2, 3 REPLACEMENT
 ADDRESS

drawing / dessin
THIRD LEVEL
HVAC DEMOLITION
& NEW WORK

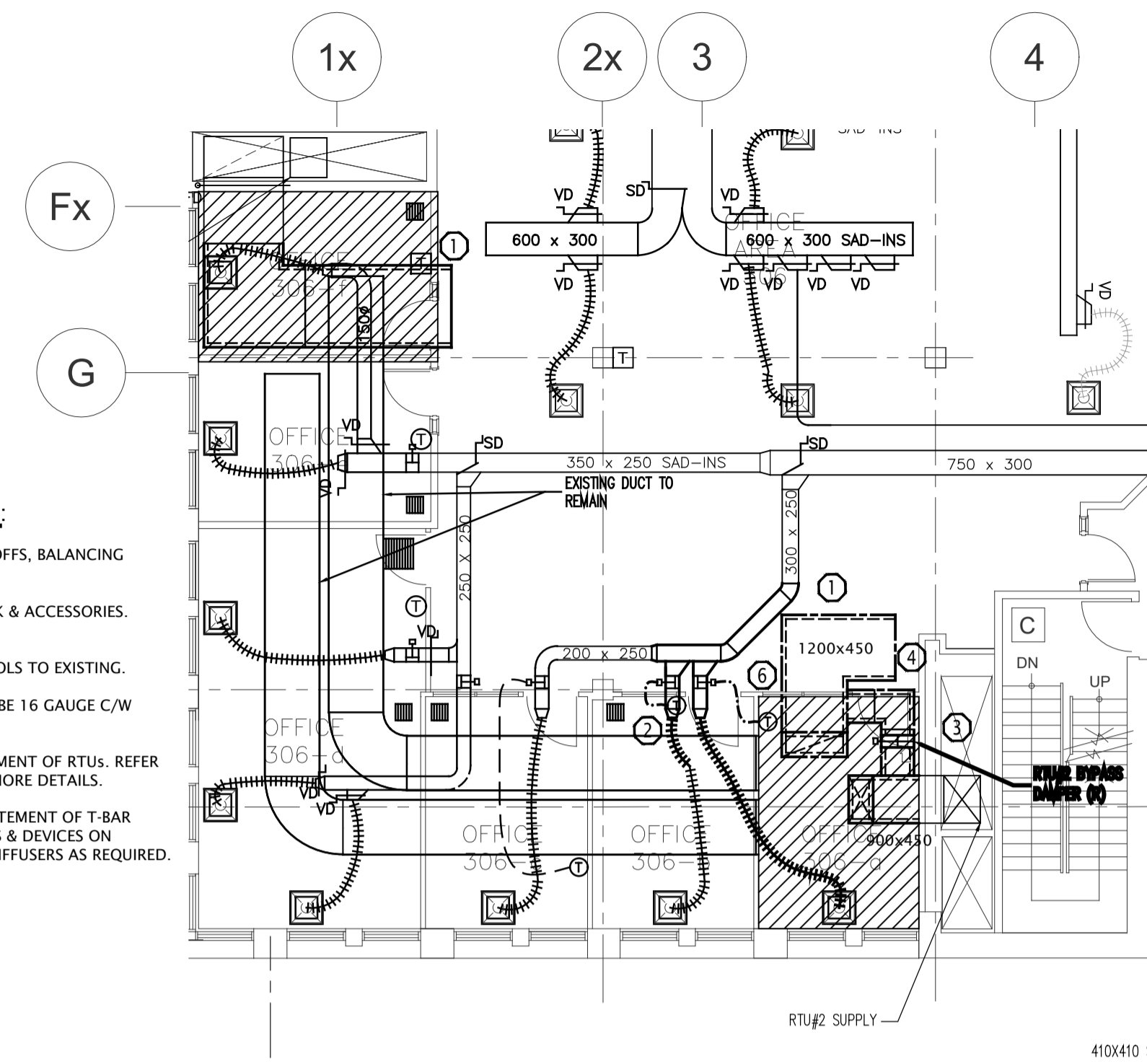
Designed By	J.ALEXANDER	Conçu par	
Date		(yyyy/mm/dd)	
Drawn By	R.CAMERON	Dessiné par	
Date		(yyyy/mm/dd)	
Reviewed By	J.ALEXANDER	Examiné par	
Date		(yyyy/mm/dd)	
Approved By	J.ALEXANDER	Approuvé par	
Date		(yyyy/mm/dd)	
Tender	M. FARID	Soumission	
Project Manager	Administrateur de projets		
Project no.	CSA15-M7b	No. du projet	
		2016-065	
Drawing no.	M4	No. du dessin	



1
M4
THIRD LEVEL HVAC DEMOLITION
 Scale: 1:100

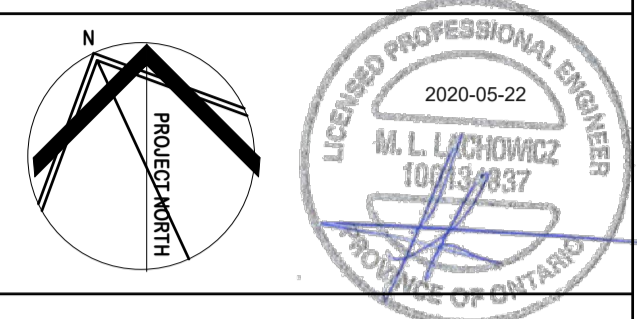
- DESCRIPTION OF HVAC DEMOLITION:**
- 1 REMOVE EXISTING DUCTWORK C/W ASSOCIATED TAKE-OFFS, BALANCING DAMPERS, DIFFUSERS & ACCESSORIES.
 - 2 REMOVE EXISTING VVT BOXES C/W ASSOCIATED DUCTWORK & ACCESSORIES & RETAIN FOR RE-USE IN NEW CONSTRUCTION. CONTRACTOR SHALL ALLOW FOR ELECTRICIAN TO DISCONNECT & RECONNECT 120/24V CONTROLS TRANSFORMER (DUCT MOUNTED) AT EACH VVT TERMINAL UNIT.
 - 3 EXISTING BYPASS DAMPER TO REMAIN.
 - 4 CONTRACTOR SHALL ALLOW FOR PHASED REPLACEMENT OF RTUS. REFER TO PHASING DESCRIPTION & SPECIFICATIONS FOR MORE DETAILS.
 - 5 CONTRACTOR SHALL ALLOW FOR REMOVAL & REINSTATEMENT OF T-BAR CEILING IN THIS AREA. SUSPEND LIGHTING FIXTURES & DEVICES ON CHAINS. TEMPORARILY SUSPEND HVAC GRILLES & DIFFUSERS AS REQUIRED.

- DESCRIPTION OF HVAC NEW WORK:**
- 1 PROVIDE NEW DUCTWORK C/W ASSOCIATED TAKE-OFFS, BALANCING DAMPERS, DIFFUSERS & ACCESSORIES.
 - 2 RELOCATE VVT BOXES C/W ASSOCIATED DUCTWORK & ACCESSORIES. RECONNECT VVT BOX TO DDC CONTROL SYSTEM.
 - 3 RELOCATE BYPASS DAMPER & RECONNECT CONTROLS TO EXISTING.
 - 4 NEW DUCTWORK LOCATED BELOW NEW RTU SHALL BE 16 GAUGE C/W ACOUSTIC INSULATION.
 - 5 CONTRACTOR SHALL ALLOW FOR PHASED REPLACEMENT OF RTUS. REFER TO PHASING DESCRIPTION & SPECIFICATIONS FOR MORE DETAILS.
 - 6 CONTRACTOR SHALL ALLOW FOR REMOVAL & REINSTATEMENT OF T-BAR CEILING IN THIS AREA. SUSPEND LIGHTING FIXTURES & DEVICES ON CHAINS. TEMPORARILY SUSPEND HVAC GRILLES & DIFFUSERS AS REQUIRED.



2
M4
THIRD LEVEL HVAC NEW WORK
 Scale: 1:100

ÉRIC VACHON
 Director, Security & Facilities
M. FARID, P. Eng.
 Project Manager



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02	Issued for Permit/Tender	2017.08.09
01	Issued for Review	2017.06.28

revisions	description	date
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A	A detail no.	
C	no. du detail	
B	B location drawing no.	
C	sur dessin no.	
A	A drawing no.	
B	dessin no.	

project RTU 1, 2, 3 REPLACEMENT

PHASE 2
 RTU 1, 2, 3 REPLACEMENT

ADDRESS

drawing ELECTRICAL SINGLE LINE DIAGRAM AND BASEMENT LEVEL KEYPLAN

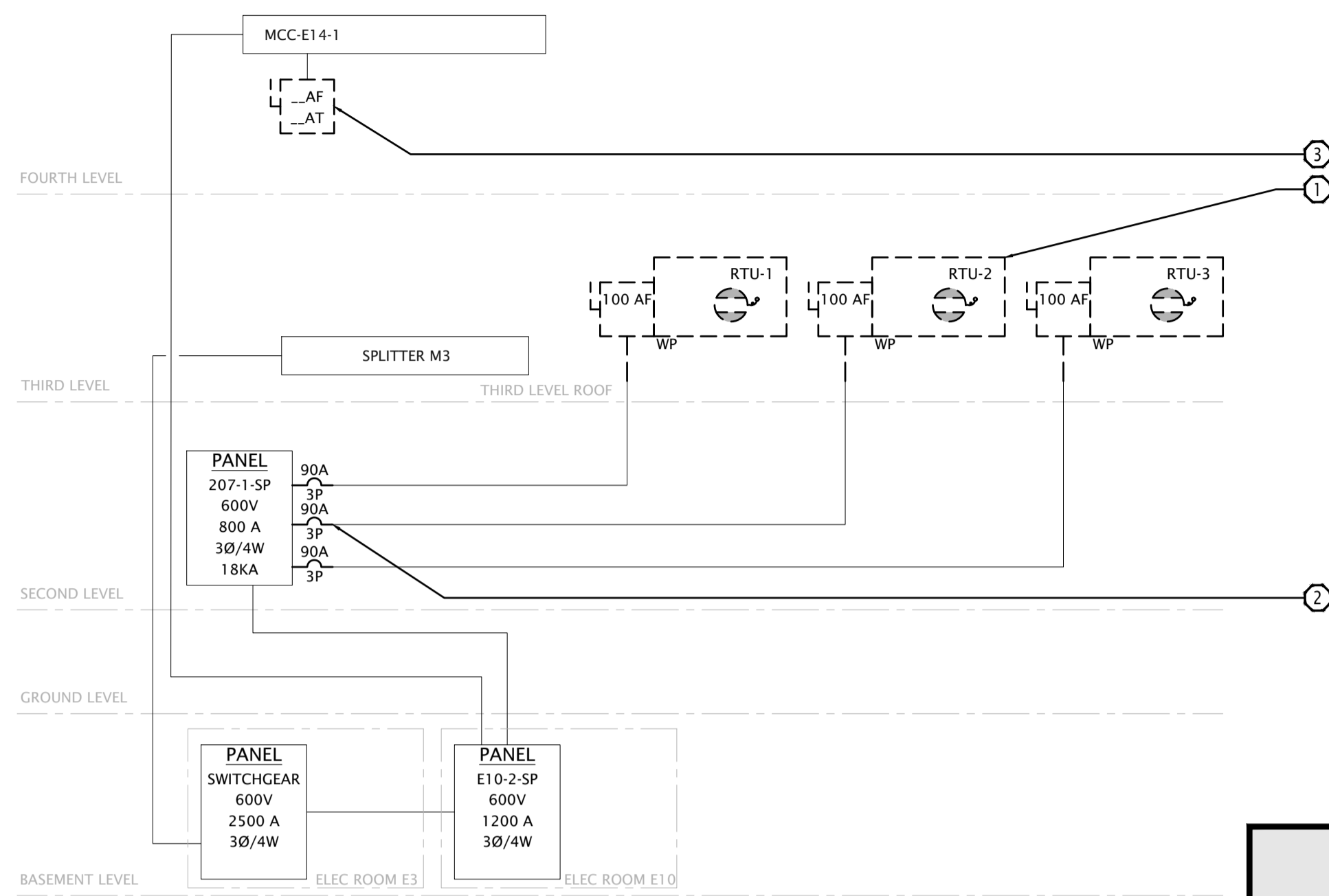
DESIGNED BY: M. LACHOWICZ
 DATE: (yyyy/mm/dd)
 DRAWN BY: P. DESJARDINS
 DATE: (yyyy/mm/dd)
 REVIEWED BY: M. LACHOWICZ
 DATE: (yyyy/mm/dd)
 APPROVED BY: M. LACHOWICZ
 DATE: (yyyy/mm/dd)

TENDER: M. LACHOWICZ
 PROJECT MANAGER: M. LACHOWICZ
 PROJECT NO.: CSA15-M7b
 DRAWING NO.: E2

CONÇU PAR: M. LACHOWICZ
 DESINÉ PAR: P. DESJARDINS
 EXAMINÉ PAR: M. LACHOWICZ
 APPROUVÉ PAR: M. LACHOWICZ
 SOUMISSION: M. LACHOWICZ
 ADMINISTRATEUR DE PROJETS: M. LACHOWICZ
 NO. DU PROJET: CSA15-M7b
 NO. DU DESSIN: E2

DESCRIPTION OF SITE DISTRIBUTION DEMOLITION:

- TYPICAL:** DISCONNECT RTU-2, AND RTU-3. RETAIN CONDUIT AND WIRING FOR RE-USE IN NEW CONSTRUCTION. REMOVAL OF RTUS BY MECHANICAL TRADES.
- TYPICAL:** DISCONNECT AND REMOVE 3P BREAKERS SERVING RTU-1, AND RTU-2. RETAIN CONDUIT AND WIRING FOR RE-USE IN NEW CONSTRUCTION.
- DISCONNECT AND REMOVE FUSED DISCONNECT BUCKET IN EXISTING MCC-E14-1.



1 SINGLE LINE DIAGRAM DEMOLITION
 Scale: N.T.S.

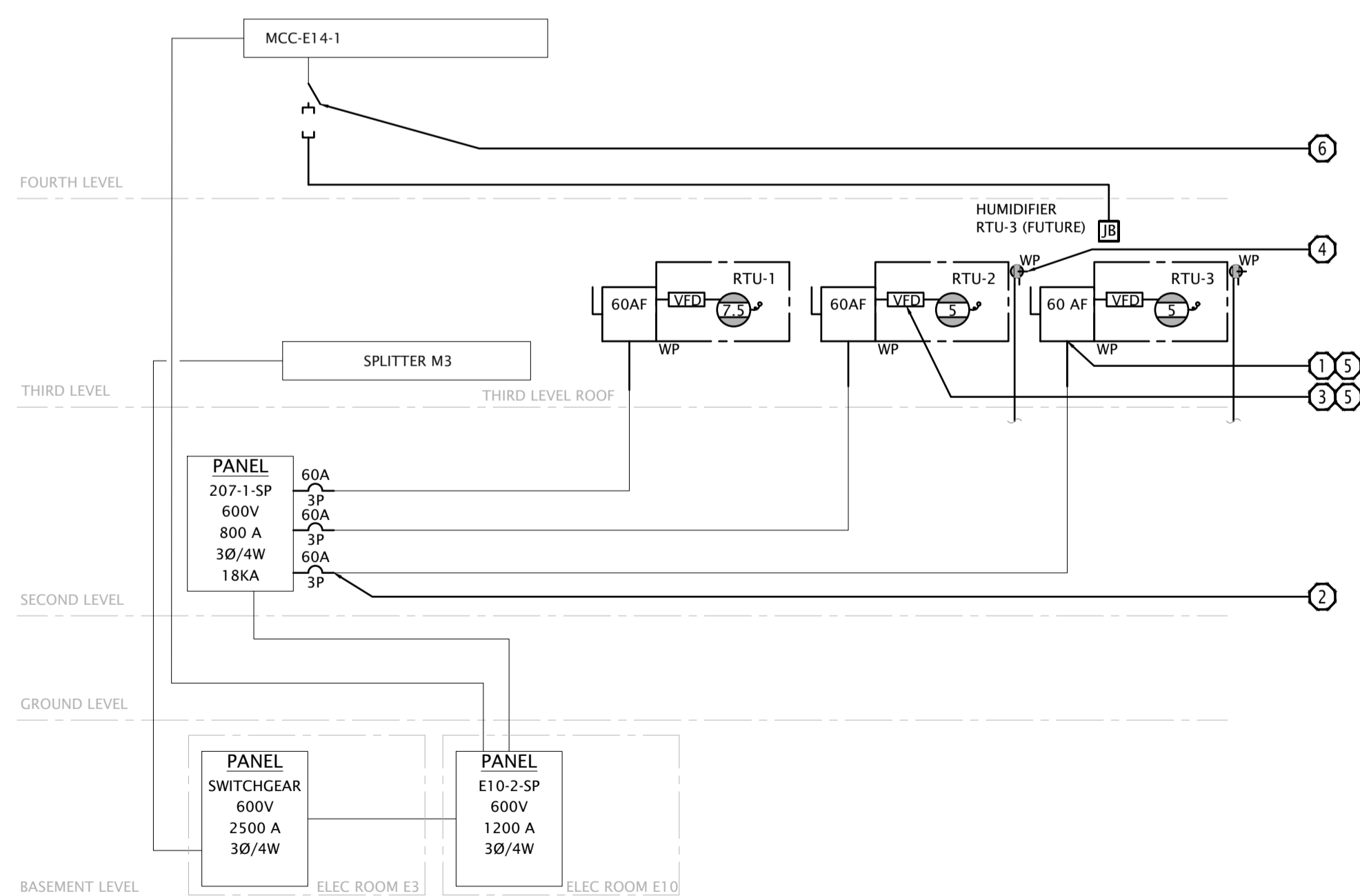
DISTRIBUTION FEEDER SCHEDULE

FEEDER ROUTING		WIRE DETAILS					RACEWAY DETAILS			LENGTH	REMARKS
DESTINATION	SOURCE	QUANTITY	GUAGE	NUMBER OF RUNS	VOLTAGE (V)	TYPE	SIZE [mm]Ø	NUMBER OF RUNS	TYPE		
RTU-1	PANEL 207-1-SP	3	EXISTING	1	600	RW90	21	1	EMT		REUSE EXISTING WIRING
RTU-2	RTU-2 DISCONNECT/VFD-RTU-2	3	EXISTING	1	600	RW90	21	1	EMT		REUSE EXISTING WIRING
RTU-3	RTU-3 DISCONNECT/VFD-RTU-3	3	EXISTING	1	600	RW90	21	1	EMT		REUSE EXISTING WIRING
HUMIDIFIER RTU-3 (FUTURE)	MCC-E14-1	3		6	1	600	RW90	27	1	EMT	COIL WIRE IN JUNCTION BOX SHOWN ON DRAWINGS.

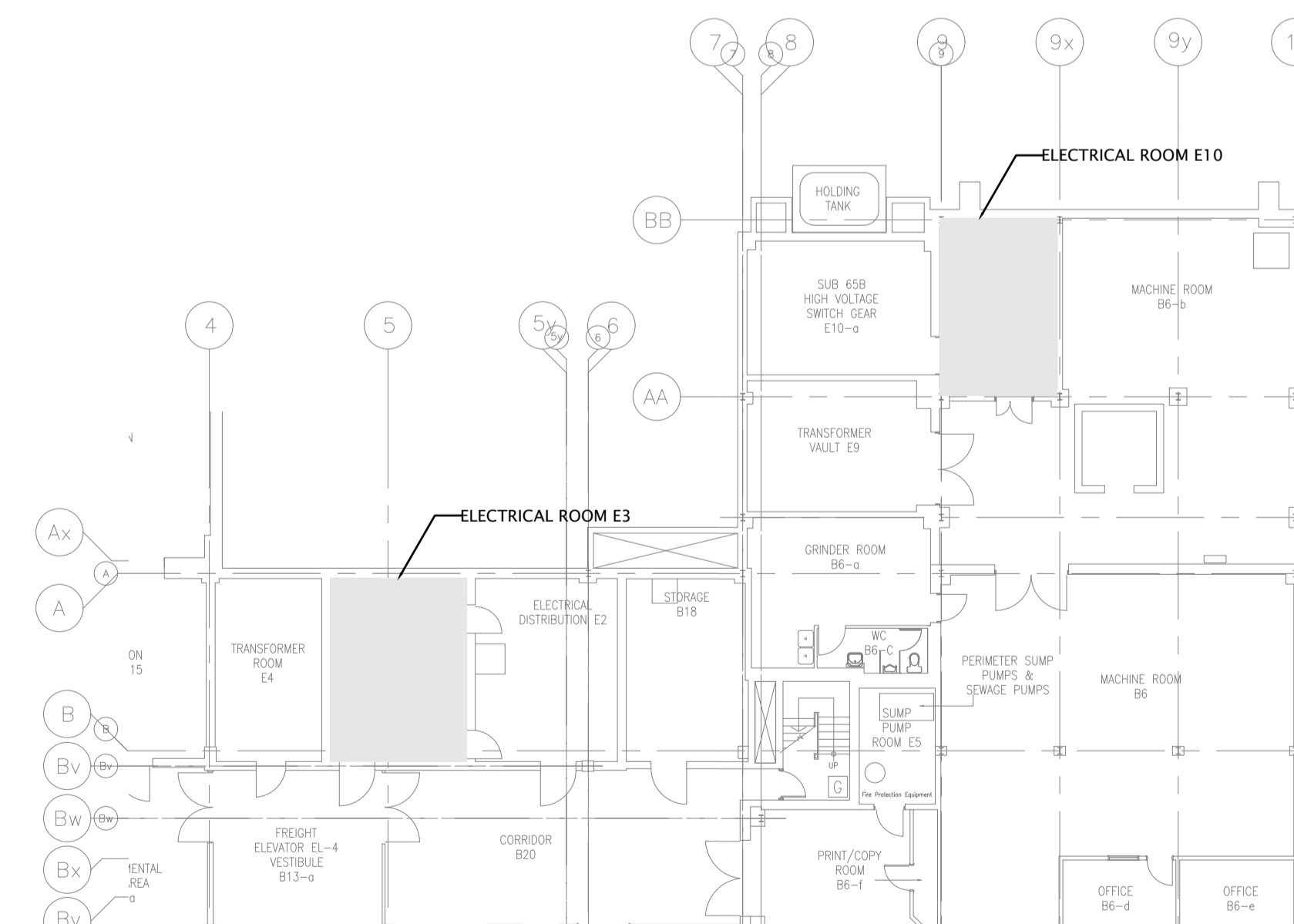
LEGEND:
 --- : NOT APPLICABLE
 □ : FOR CONTRACTORS USE, TO BE COORDINATED ON SITE.
 NOTES : ALL FEEDERS SHALL HAVE SEPARATE GROUND CONDUCTOR.

DESCRIPTION OF SITE DISTRIBUTION NEW WORK:

- TYPICAL:** PROVIDE CONNECTION TO FACTORY MOUNTED DISCONNECT ON RTU-1, RTU-2, AND RTU-3 (TYPICAL OF EACH: 600V, 3Ø, 60HZ, FLA: 48.5A, MCA: 52A, MOP: 60A, C/W CONDUIT AND WIRING RETAINED DURING DEMOLITION. MODIFY AND EXTEND CONDUIT AND WIRING AS REQUIRED).
- TYPICAL:** PROVIDE 60A 3-POLE BREAKERS IN PANEL 207-1-SP FOR RTU-1, RTU-2, AND RTU-3. PROVIDE CONNECTION TO CONDUIT AND WIRING RETAINED DURING DEMOLITION.
- TYPICAL (OF 3):** FACTORY INSTALLED AND WIRED VFD DRIVES.
- TYPICAL (OF 3):** PROVIDE CONNECTION TO FACTORY INSTALLED GFCI SERVICE RECEPTACLE C/W CONDUIT, WIRING, AND 20A 1-POLE BREAKER.
- TYPICAL (OF 3):** PROVIDE FIRE ALARM CONNECTION FROM LOCAL FIRE ALARM SIGNAL NEXT TO EACH RTU TO DRY CONTACT ON RTU-1, RTU-2, AND RTU-3 CONTROL TERMINAL STRIP C/W CONDUIT AND WIRING.
- PROVIDE CONNECTION BETWEEN EXISTING SPARE 100A FRAME IN MCC-E14-1 C/W CONDUIT AND WIRING DOWN SHAFT TO THIRD LEVEL. PROVIDE 200MM X 200MM X 100MM JUNCTION BOX IN SHAFT FOR FUTURE HUMIDIFIER CONNECTION SERVING RTU-3. COIL MINIMUM 500MM OF WIRES IN SPARE JUNCTION BOX FOR FUTURE CONNECTIONS. DISCONNECT IS TO BE LEFT UNFUSED. PROVISION OF FUSE AND HUMIDIFIER NOT IN CONTRACT.

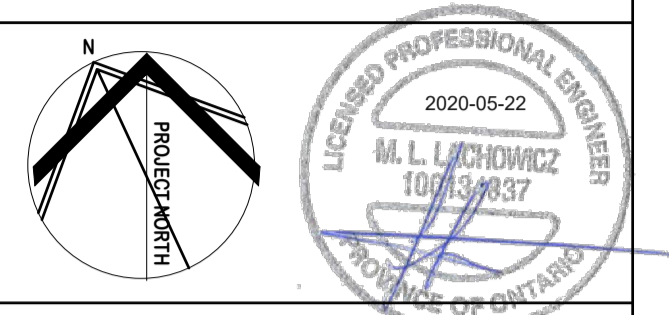


2 SINGLE LINE DIAGRAM NEW WORK
 Scale: N.T.S.



3 BASEMENT LEVEL KEYPLAN
 Scale: 200

ÉRIC VACHON
 Director, Security & Facilities
M. FARID, P. Eng.
 Project Manager



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01	Issued for Review	2017.06.28

revisions	description	date
A	detail no. / no. du detail	
B	location drawing no. / sur dessin no.	
C	drawing no. / dessin no.	

project / projet
PHASE 2
RTU 1, 2, 3 REPLACEMENT
 ADDRESS

drawing / dessin
PARTIAL 2ND & 3RD
LEVEL POWER &
SYSTEMS DEMO &
NEW WORK

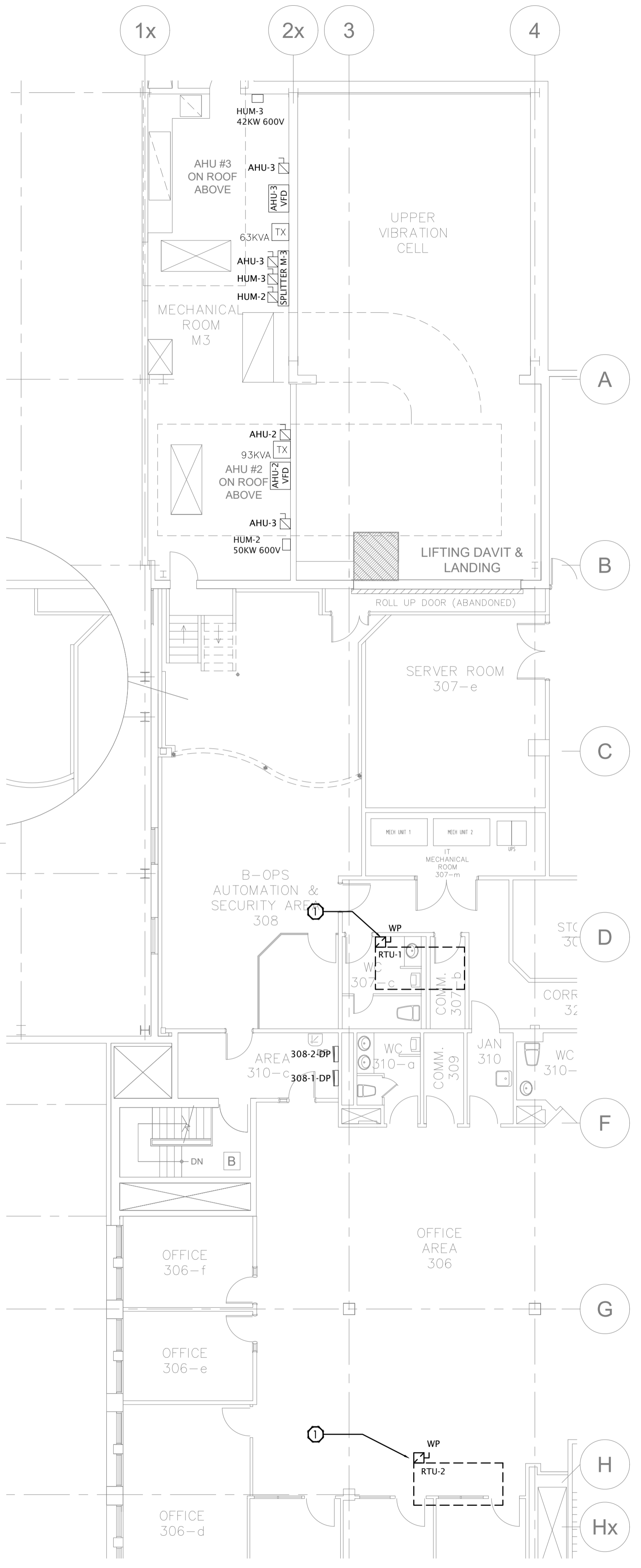
Designed By	M.LACHOWICZ	Conçu par	M.LACHOWICZ
Date		(yyyy/mm/dd)	
Drawn By	P.DESJARDINS	Dessiné par	P.DESJARDINS
Date		(yyyy/mm/dd)	
Reviewed By	M.LACHOWICZ	Examiné par	M.LACHOWICZ
Date		(yyyy/mm/dd)	
Approved By	M.LACHOWICZ	Approuvé par	M.LACHOWICZ
Date		(yyyy/mm/dd)	
Tender	M.LACHOWICZ	Soumission	M.LACHOWICZ
Project Manager	M.LACHOWICZ	Administrateur de projets	M.LACHOWICZ
Project no.	CSA15-M7b	No. du projet	CSA15-M7b
			2016-065
Drawing no.	E3	No. du dessin	E3

DESCRIPTION OF POWER & SYSTEMS DEMOLITION:

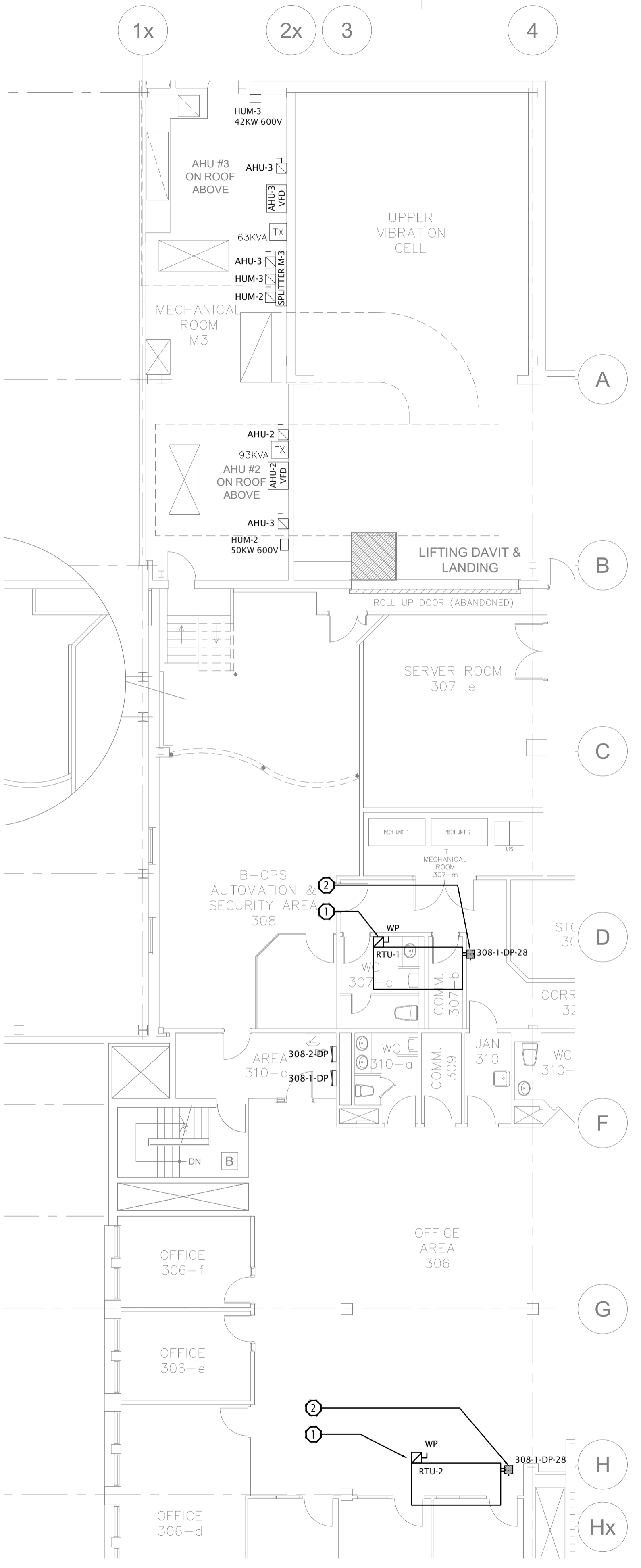
- ① DISCONNECT RTU-1, RTU-2. RETAIN CONDUIT AND WIRING FOR RE-USE IN NEW CONSTRUCTION. REMOVAL OF RTU-1 & RTU-2 BY MECHANICAL TRADES.

DESCRIPTION OF POWER & SYSTEMS NEW WORK:

- ① TYPICAL: PROVIDE CONNECTION TO FACTORY MOUNTED DISCONNECT SERVING RTU-1 AND RTU-2 C/W CONDUIT AND WIRING RETAINED DURING DEMOLITION. REFER TO DETAILS 1/E2 AND 2/E2 FOR ADDITIONAL WORK ON RTUs MODIFY AND EXTEND CONDUIT AND WIRING AS REQUIRED.
- ② TYPICAL: PROVIDE CONNECTION TO FACTORY MOUNTED GFCI RECEPTACLE C/W CONDUIT, WIRING, AND 20A 1-POLE BREAKER.

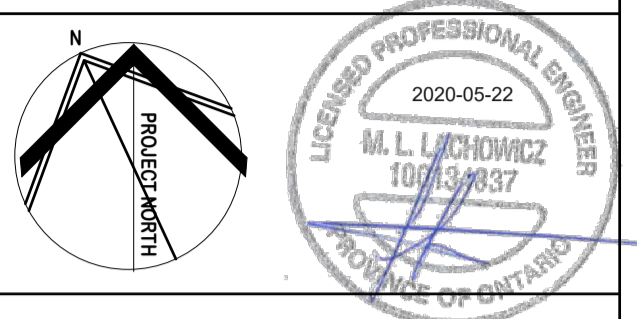


1
E3
PARTIAL 3RD LEVEL PLAN
POWER AND SYSTEMS DEMOLITION
 Scale: 1:100



2
E3
PARTIAL 3RD LEVEL PLAN
POWER AND SYSTEMS NEW WORK
 Scale: 1:100

ÉRIC VACHON
 Director, Security & Facilities
M. FARID, P. Eng.
 Project Manager



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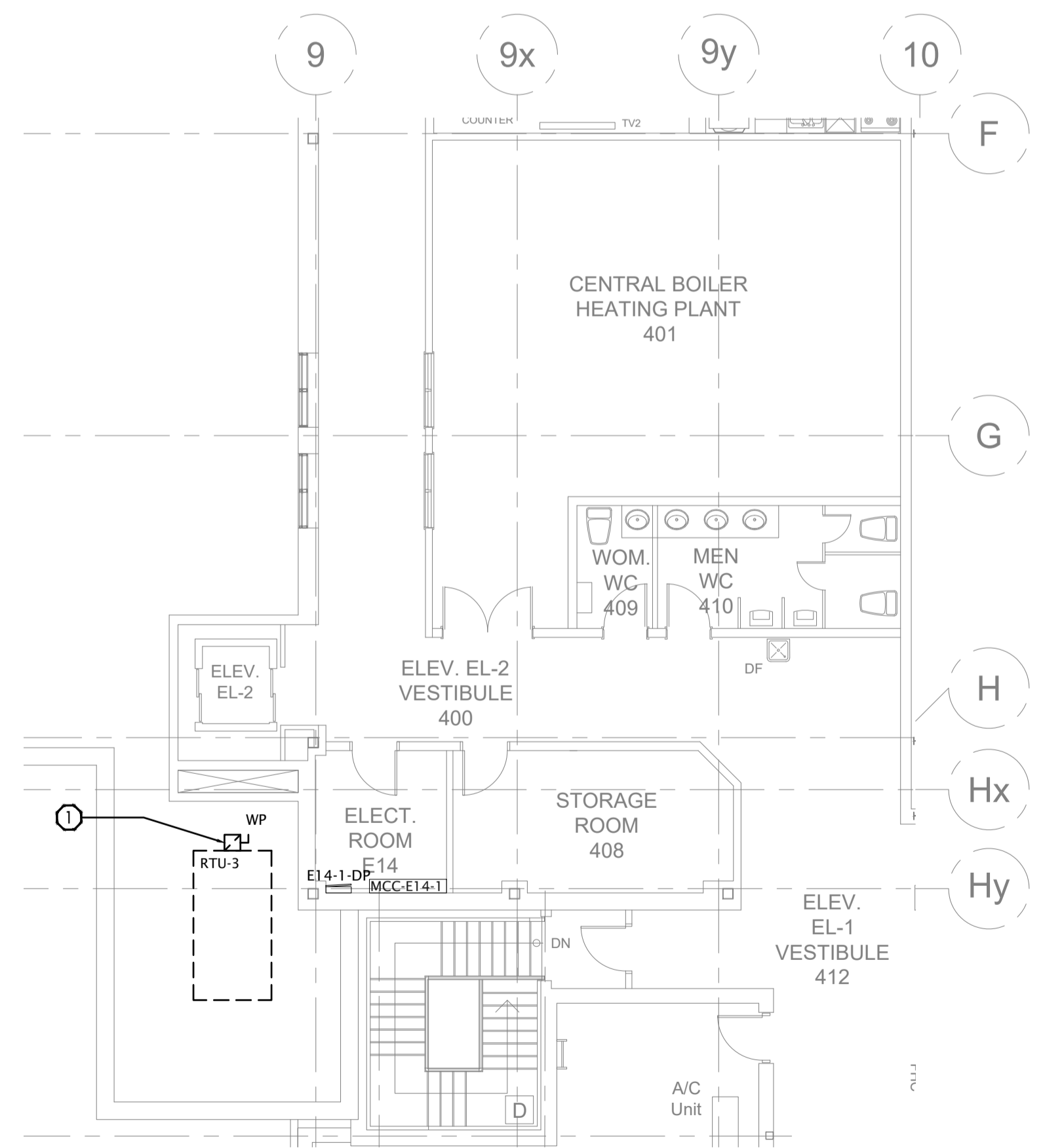
revisions	description	date
03	Re-issued for Permit/Tender	2020.05.22
02	Issued for Permit/Tender	2017.08.09
01	Issued for Review	2017.06.28

A	A detail no. no. du detail	A
B	B location drawing no. sur dessin no.	B
C	C drawing no. dessin no.	C

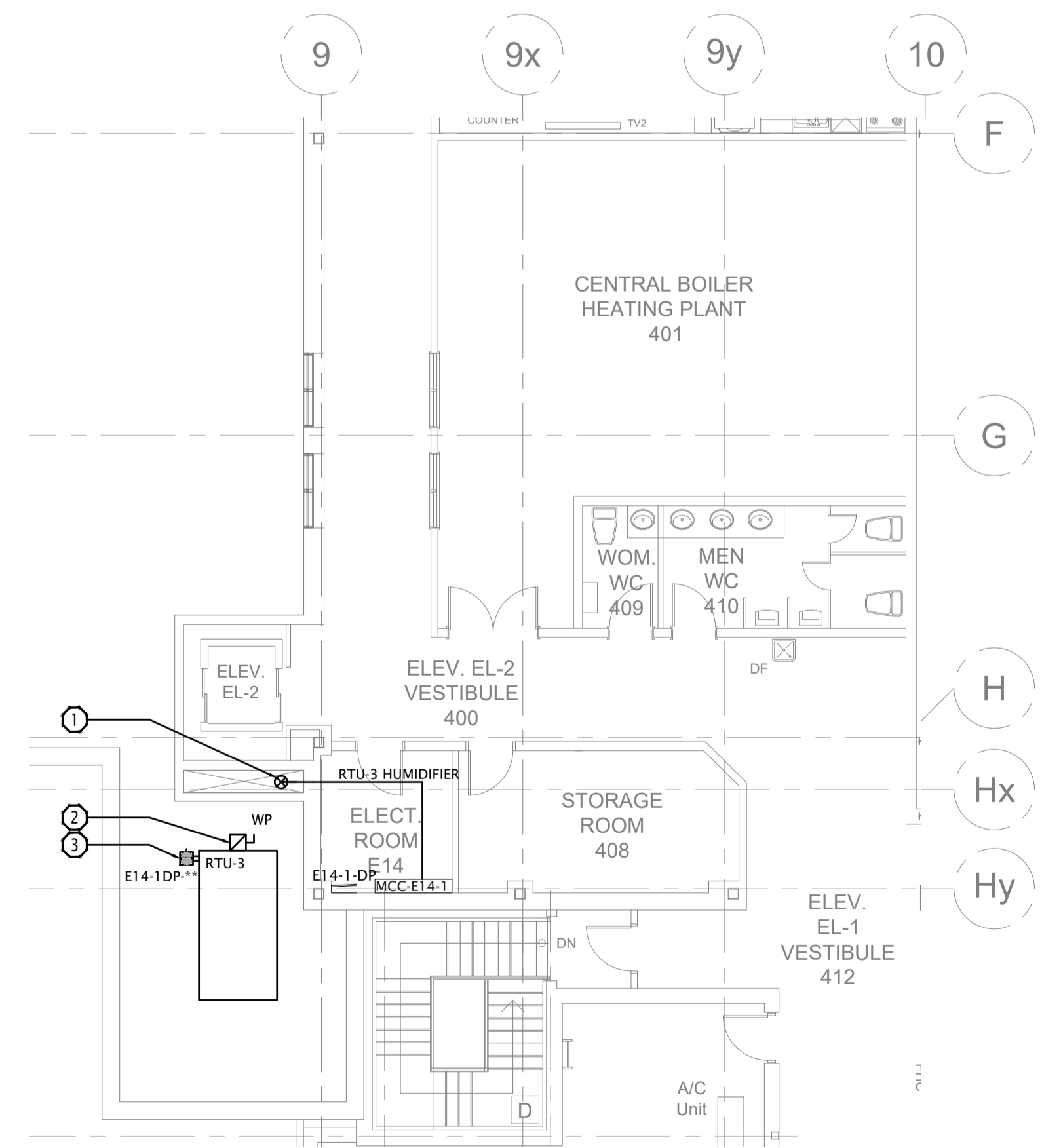
project / projet
PHASE 2
RTU 1, 2, 3 REPLACEMENT
 ADDRESS

drawing / dessin
PARTIAL 4TH LEVEL POWER & SYSTEMS DEMOLITION & NEW WORK

Designed By	M.LACHOWICZ	Conçu par	M.LACHOWICZ
Date		(yyyy/mm/dd)	
Drawn By	P.DESJARDINS	Dessiné par	P.DESJARDINS
Date		(yyyy/mm/dd)	
Reviewed By	M.LACHOWICZ	Examiné par	M.LACHOWICZ
Date		(yyyy/mm/dd)	
Approved By	M.LACHOWICZ	Approuvé par	M.LACHOWICZ
Date		(yyyy/mm/dd)	
Tender	M.LACHOWICZ	Soumission	M.LACHOWICZ
Project Manager	M.LACHOWICZ	Administrateur de projets	M.LACHOWICZ
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Drawing no.	E4	No. du dessin	E4



DESCRIPTION OF POWER & SYSTEMS DEMOLITION:
 ① DISCONNECT RTU-3. RETAIN CONDUIT AND WIRING FOR RE-USE IN NEW CONSTRUCTION. REMOVAL OF RTU-3 BY MECHANICAL TRADES.



DESCRIPTION OF POWER & SYSTEMS NEW WORK:
 ① PROVIDE CONDUIT AND WIRING DOWN TO THIRD LEVEL IN SHAFT C/W JUNCTION BOX IN SHAFT FOR FUTURE HUMIDIFIER.
 ② PROVIDE CONNECTION TO FACTORY MOUNTED DISCONNECT FOR RTU-3 C/W CONDUIT AND WIRING RETAINED DURING DEMOLITION. MODIFY AND EXTEND CONDUIT AND WIRING AS REQUIRED.
 ③ PROVIDE CONNECTION TO FACTORY MOUNTED GFCI RECEPTACLE C/W CONDUIT, WIRING, AND 20A 1-POLE BREAKER FROM EXISTING SPACE IN PANEL E14-1-DP.

1
E4
PARTIAL 4TH LEVEL PLAN POWER AND SYSTEMS DEMOLITION
 Scale: 1:100

2
E4
PARTIAL 4TH LEVEL PLAN POWER AND SYSTEMS NEW WORK
 Scale: 1:100