



Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
Canada

REAL PROPERTY SERVICES

Western Region

SERVICES IMMOBILIERS

Région de l'ouest

Canada School of Public Service (CSPS) Fit-up

For:

Public Works and Government Services Canada

Second Floor

391 York Avenue

Winnipeg, Manitoba

R.060508.003

DATE: 20th of November 2015

ISSUED FOR CONSTRUCTION

PROJECT DESCRIPTION:

PROVIDE TENANT IMPROVEMENT FOR PUBLIC WORKS & GOVERNMENT SERVICES CANADA (PWGSC) ON THE SECOND FLOOR OF 391 YORK AVENUE. SCOPE OF WORK INCLUDES DEMOLITION AND CONSTRUCTION OF PARTITIONS, INTERIOR FINISHES, ELECTRICAL AND MECHANICAL SYSTEMS. LIGHTING, HVAC, POWER, DATA, FIRE ALARM, EMERGENCY AND EXIT LIGHTING TO BE REMOVED, INSTALLED, OR MAINTAINED AS INDICATED.

PROJECT ADDRESS:

Second Floor
391 York Avenue
Winnipeg, Manitoba R3C 0P4

ZONING:

M - MULTIPLE USE
PRINCIPAL USE: COMMERCIAL (OFFICES)

BY-LAWS:

CITY OF WINNIPEG DOWNTOWN ZONING BYLAW NO. 100/2004

CODE REVIEW

The most current version of the National Building Code applies to this project.
Major Occupancy: Group A Division 2 - Assembly
Building Size: 12,116 m²
Storeys Above Grade: 4 storeys, sprinklered throughout
Renovated Suite Area on 2nd floor: 646 m²
Design Occupant Load of Area of Renovation: 95

Section 3.3 Safety within Floor Areas

3.3.1.1.(1) 1hr fire resistant rated separation on suite to suite fire separations required unless floor assemblies above and below require less.

3.3.1.3.(9) If two exits required, when using doorways opening into a public corridor one must be able to travel in opposite directions to an exit.

3.3.1.4.(1) The corridor is required to be a fire separation however no fire resistance rating is required as the building is sprinklered throughout.

3.3.1.5.(1) 2 egress doors required.

3.3.1.9 Door swinging into a corridor must swing in the path of travel.

For Owner Information:

Table 3.3.1.5B Maximum area for the requirement of one egress in floor area sprinklered throughout.
Group A – 200 m².
Group D – 300 m².

3.3.2.7 If an assembly occupancy has an occupant load more than 100 an access to exit door must be equipped with a release latch that allows the door to swing wide open when a force is applied in the direction of the path of travel.

Section 3.4 Exits

Minimum Number of Exits

3.4.2.1 (1) Minimum number of exit required is 2.

3.4.3.2. Exit Width Capacity: 2 x 900 mm wide doors / 6.1 mm per person = 295 persons (Relative to egress of this suite and its two nearest exits on the floor plate).

Distance Between Exits

3.4.2.3 (1) (a) The least distance between 2 exits from a floor area shall be one half the maximum diagonal dimension of the floor area, but need not be more than 9 m for a floor area having a public corridor.

DRAWING LIST

ARCHITECTURAL

- A1 CODE REVIEW, DRAWING LIST, LIST OF CONSULTANTS, SYMBOLS, ABBREVIATIONS, SITE PLAN, EGRESS & AREA OF WORK PLAN
- A2 SECOND FLOOR EXISTING / DEMOLITION FLOOR PLAN
- A3 SECOND FLOOR EXISTING / DEMOLITION REFLECTED CEILING PLAN
- A4 SECOND FLOOR CONSTRUCTION PLAN
- A5 SECOND FLOOR CONSTRUCTION REFLECTED CEILING PLAN
- A6 SECOND FLOOR FURNITURE PLAN
- A7 SECOND FLOOR FINISHES PLAN
- A8 INTERIOR ELEVATIONS, MILLWORK SECTIONS
- A9 PLAN DETAILS, SECTION DETAILS & BUILDING SECTIONS
- A10 CEILING SECTIONS

STRUCTURAL

- S1 PARTIAL LEVEL 3 FRAMING PLAN SECTIONS & GENERAL NOTES

MECHANICAL

- M1 EXISTING / DEMOLITION MECHANICAL LAYOUT
- M2 NEW CONSTRUCTION MECHANICAL LAYOUT
- M3 FIRE PROTECTION AND PLUMBING LAYOUT
- M4 ROOF MECHANICAL LAYOUT AND DETAILS
- M5 MECHANICAL SCHEDULES

ELECTRICAL

- E1 SECOND FLOOR LIGHTING DEMOLITION PLAN, GENERAL NOTES AND SYMBOL SCHEDULE
- E2 SECOND FLOOR POWER DEMOLITION PLAN, LARGE SCALE SUB ELECTRICAL ROOM LAYOUT AND GENERAL NOTES
- E3 SECOND FLOOR LIFE SAFETY SYSTEMS DEMOLITION PLAN
- E4 SECOND FLOOR NEW LIGHTING PLAN
- E5 SECOND FLOOR NEW POWER PLAN AND NOTES
- E6 SECOND FLOOR NEW LIFE SAFETY SYSTEMS PLAN AND NOTES
- E7 LUMINAIRE SCHEDULE
- E8 MECHANICAL EQUIPMENT SCHEDULE
- E9 LIGHTING CONTROL SCHEDULE
- E10 PANELBOARD DIRECTORY - 1
- E11 PANELBOARD DIRECTORY - 2
- E12 ROOF PLAN, DETAIL AND EXISTING SINGLE LINE DISTRIBUTION DIAGRAM

COMMUNICATIONS

- T1 SECOND FLOOR TELECOMMUNICATIONS DEMOLITION PLAN AND SYMBOL SCHEDULE
- T2 SECOND FLOOR NEW TELECOMMUNICATIONS PLAN AND GENERAL NOTES
- T3 SECOND FLOOR AUDIO AND VIDEO SYSTEMS PLAN
- T4 SECOND FLOOR SOUND MASKING, INTRUSION AND ACCESS CONTROL SYSTEM
- T5 SINGLE LINE DIAGRAMS

CONSULTANTS

ARCHITECTURAL

REPUBLIC ARCHITECTURE INC.

374 DONALD STREET, FIRST FLOOR
WINNIPEG, MANITOBA
R3B 2J2

CONTACT:
CECILIA TURNER
T 204 989 0102
F 204 989 0094

STRUCTURAL

CROSIER KILGOUR & PARTNERS LTD.

300-275 CARLTON STREET
WINNIPEG, MANITOBA
R3C 5R6

CONTACT:
BART FLISAK
T 204 943-7501
F 204 943-7507

MECHANICAL & ELECTRICAL

HDK CONSULTING INC.

81 GARRY STREET, SUITE 55
WINNIPEG, MANITOBA
R3C 4J9

CONTACTS:
DAVID HO (MECHANICAL)
HUGO CEA CANAS (ELECTRICAL)
T 204 818-0390
F 204 818-0388

GENERAL NOTES:

1. INFORMATION CONCERNING EXISTING CONSTRUCTION WAS TAKEN FROM ORIGINAL DRAWINGS AND IS ASSUMED CORRECT.

2. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF SITE MEASUREMENTS AND QUANTITIES OF MATERIALS REQUIRED.

3. PERFORM WORK IN STRICT ACCORDANCE WITH THE NATIONAL BUILDING CODE OF CANADA AND ANY OTHER CODE OF PROVINCIAL APPLICATION OR ANY AUTHORITY HAVING JURISDICTION.

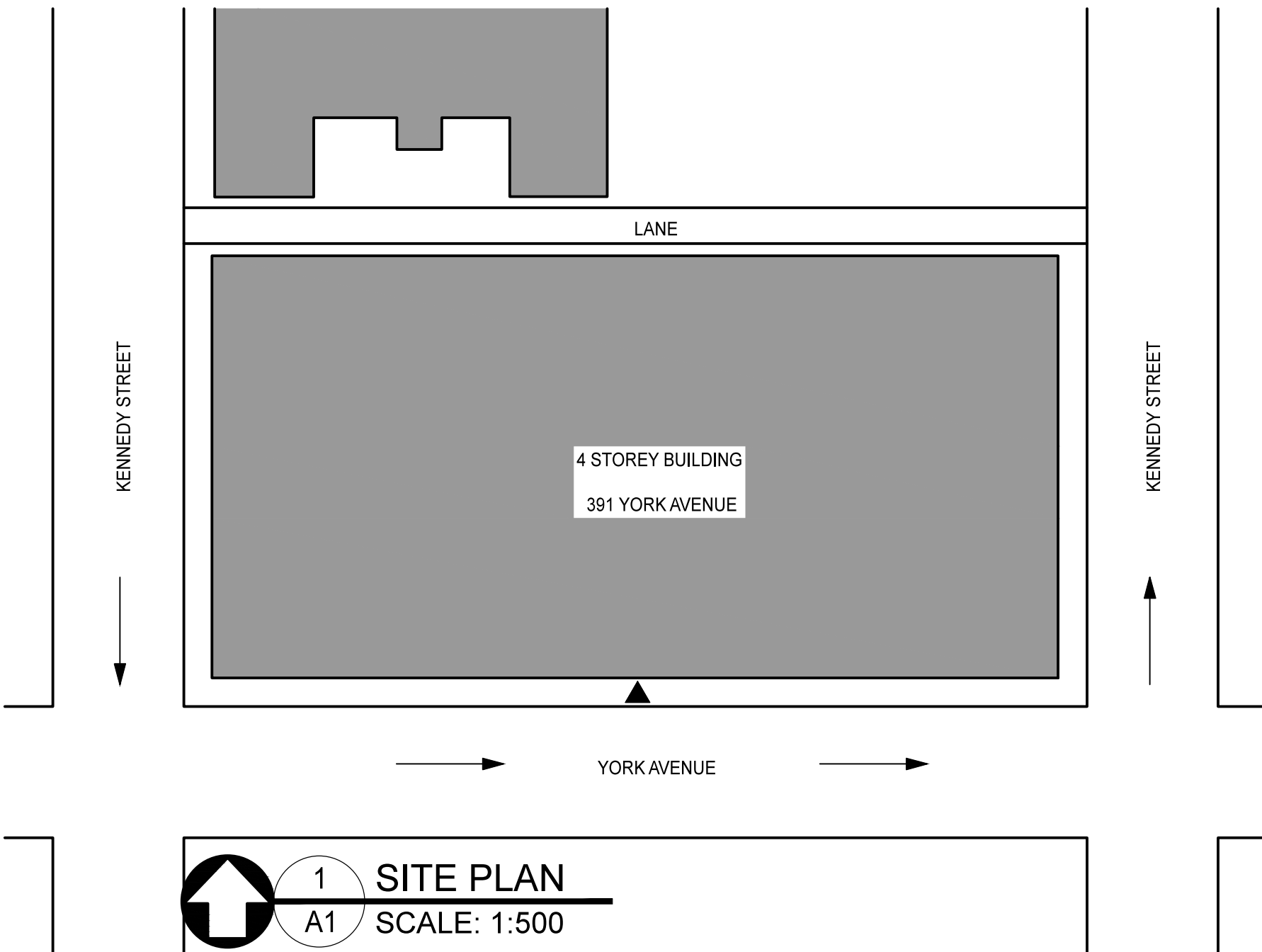
4. DRAWINGS MUST NOT BE SCALED.

5. WHERE NEW WORK CONNECTS WITH EXISTING AND WHERE EXISTING WORK IS ALTERED, PATCH, REPAIR AND MAKE GOOD TO MATCH EXISTING. CONSULT DEPARTMENTAL REPRESENTATIVE FOR CLARIFICATION AS REQUIRED.

6. ALL FINISHES AND MATERIALS TO REMAIN ARE TO BE PROTECTED IN THEIR EXISTING CONDITION EXCEPT AS NOTED. ANY FINISHES DAMAGED IN THE COURSE OF CONSTRUCTION ARE TO BE PATCHED, REPAIRED AND MADE GOOD.

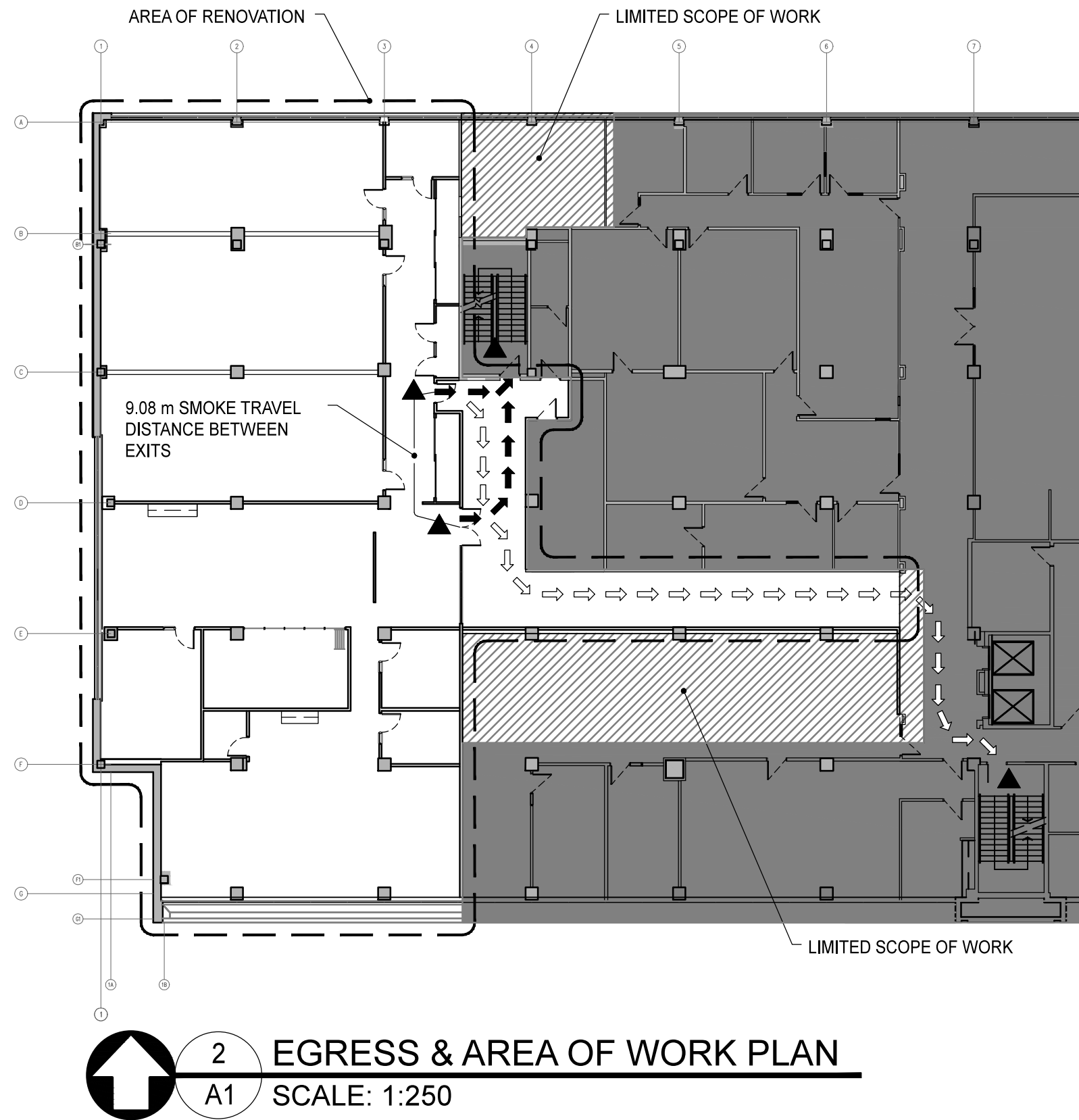
7. IN CASE OF DOUBT, CONFLICT OR DISCREPANCIES ON THE DRAWINGS, SPECIFICATIONS, MATERIALS OR METHOD OF CONSTRUCTION, CONSULT DEPARTMENTAL REPRESENTATIVE FOR CLARIFICATION IN WRITING BEFORE PROCEEDING WITH WORK.

8. ALL EXISTING FIRE SEPARATIONS ARE TO BE MAINTAINED.

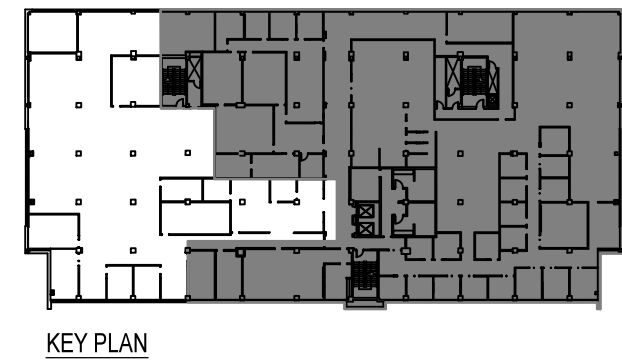


KEY PLAN LEGEND

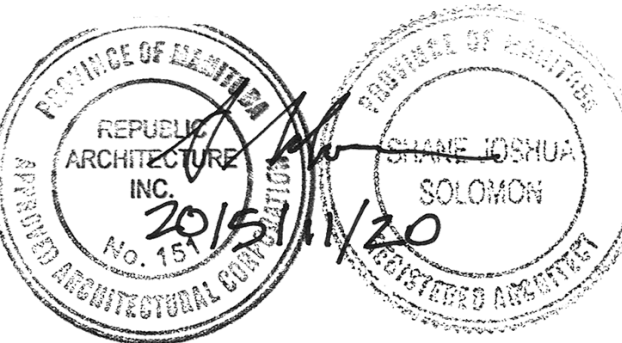
- ▲ EXITS
- ➡ EGRESS PATH 1
- ➡ EGRESS PATH 2
- ➡ ONE WAY TRAFFIC DIRECTION
- AREA NOT WITHIN SCOPE OF RENOVATION
- ▨ LIMITED SCOPE OF WORK
NOTE: TO INCLUDE DEMO (NO OF INDICATED WALLS AND MECH. & ELEC. WORK (AS INDICATED ON MECH & ELEC). FINISHES TO REMAIN, NOT REQUIRED TO MAKE GOOD EXISTING IN AREAS LABELED AS LIMITED SCOPE.



NOTE:
GC TO COORDINATE PATH OF EGRESS DURING DEMO/CONSTRUCTION IN ACCORDANCE WITH NBCC & AUTHORITIES HAVING JURISDICTION.



KEY PLAN



DO NOT SCALE DRAWINGS

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3	ISSUED FOR CONSTRUCTION	15/11/20
2	100% CD SUBMISSION	15/10/29
1	99% CD SUBMISSION	15/09/28
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WINNIPEG, MANITOBA

CSPS WINNIPEG FIT-UP

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BP

Drawn by/Dessine par
HR

PWGSC Project Manager/Administrateur de Projets TPSCG
JOHN ALIBIN

PWGSC, Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie, TPSCG

Client/client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

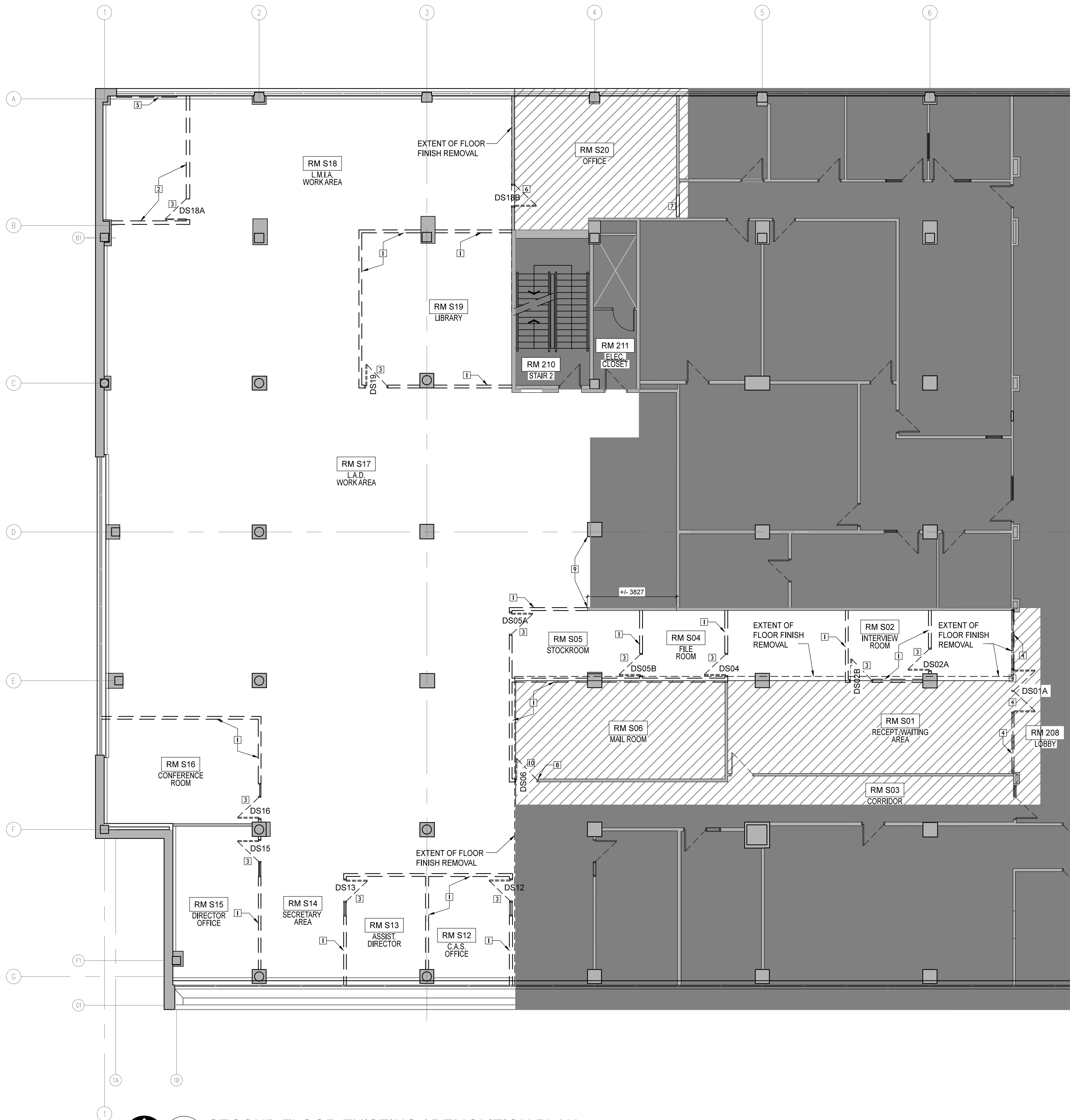
Drawing title/Titre du dessin

CODE REVIEW, DRAWING LIST,
LIST OF CONSULTANTS, SYMBOLS,
ABBREVIATIONS, SITE PLAN,
EGRESS & AREA OF WORK PLAN

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FLOOR PLAN LEGEND

- EXISTING EXTERIOR WALL
- EXISTING WALL CONSTRUCTION TO REMAIN
- WALLS TO BE REMOVED
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE REMOVED
- AREA NOT WITHIN SCOPE OF RENOVATION
- LIMITED SCOPE OF WORK
NOTE: TO INCLUDE DEMO OF INDICATED WALLS AND MECH. & ELEC. WORK (AS INDICATED ON MECH & ELEC). FINISHES TO REMAIN. NOT REQUIRED TO MAKE GOOD EXISTING IN AREAS LABELED AS LIMITED SCOPE.

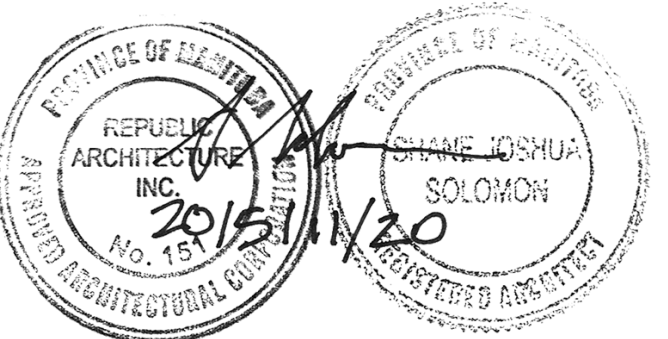
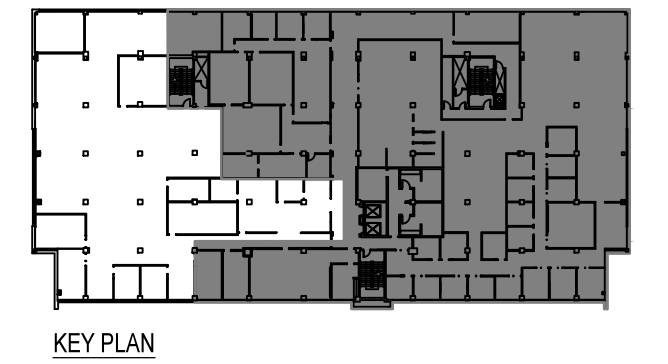
KEYNOTES

- REMOVE EXISTING WALL CONSTRUCTION. PATCH & REPAIR ADJACENT WALLS TO REMAIN.
- REMOVE EXISTING PANEL WALL SYSTEM AND RETURN TO OWNER FOR FIRST RIGHT OF REFUSAL.
- REMOVE EXISTING DOOR AND FRAME. RETURN TO OWNER FOR FIRST RIGHT OF REFUSAL.
- DISASSEMBLE DOOR DS01A, FRAME AND GLAZING TO RE-INSTALL IN NEW ENTRY
- REMOVE TEMPORARY RIGID WINDOW SCREEN.
- REMOVE EXISTING DOOR DS18B, FRAME & HARDWARE FOR RE-INSTALL AS DOOR D01 (NEW ENTRY TO FUTURE TENANT ROOM RM01) IN FUTURE TENANT SPACE (REFER TO A4, NOTE 12).
- REMOVE SECTION OF WALL TO ACCOMMODATE NEW DOOR.
- REMOVE WALL TO ROUGH OPENING
- REMOVE EXISTING WALL TO LINE UP WITH FACE OF COLUMN.
- REMOVE EXISTING DOOR DS06, FRAME & HARDWARE FOR RE-INSTALL AS DOOR DS20 (NEW ENTRY TO FUTURE TENANT ROOM RM S20) IN FUTURE TENANT SPACE (REFER TO A4, NOTE 10).

GENERAL NOTES

- REMOVE EXISTING FLOORING AND BASE. PREPARE SURFACE FOR NEW FINISH AS INDICATED.
- REMOVE EXISTING WINDOW COVERINGS.
- PROTECT ALL EXISTING SURFACES TO REMAIN FROM DAMAGE. IF ANY SURFACES OR SYSTEMS BECOME DAMAGED, REPAIR TO SATISFACTION OF DEPARTMENTAL REPRESENTATIVE.
- REMOVE EXISTING DOORS, FRAMES & HARDWARE AND RETURN TO OWNER FOR FIRST RIGHT OF REFUSAL.
- CONFIRM ALL "FIRST RIGHT OF REFUSAL" DEMOLITION REQUIREMENTS AT CONTRACTOR WALK THROUGH WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO BIDDING.
- REMOVE HORIZONTAL PLAM FINISH ON WINDOW SILL. BULLNOSE FINISH TO REMAIN. PREPARE SUBSTRATE FOR NEW FINISH.

1 SECOND FLOOR EXISTING / DEMOLITION PLAN
A2 SCALE: 1:100



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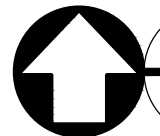
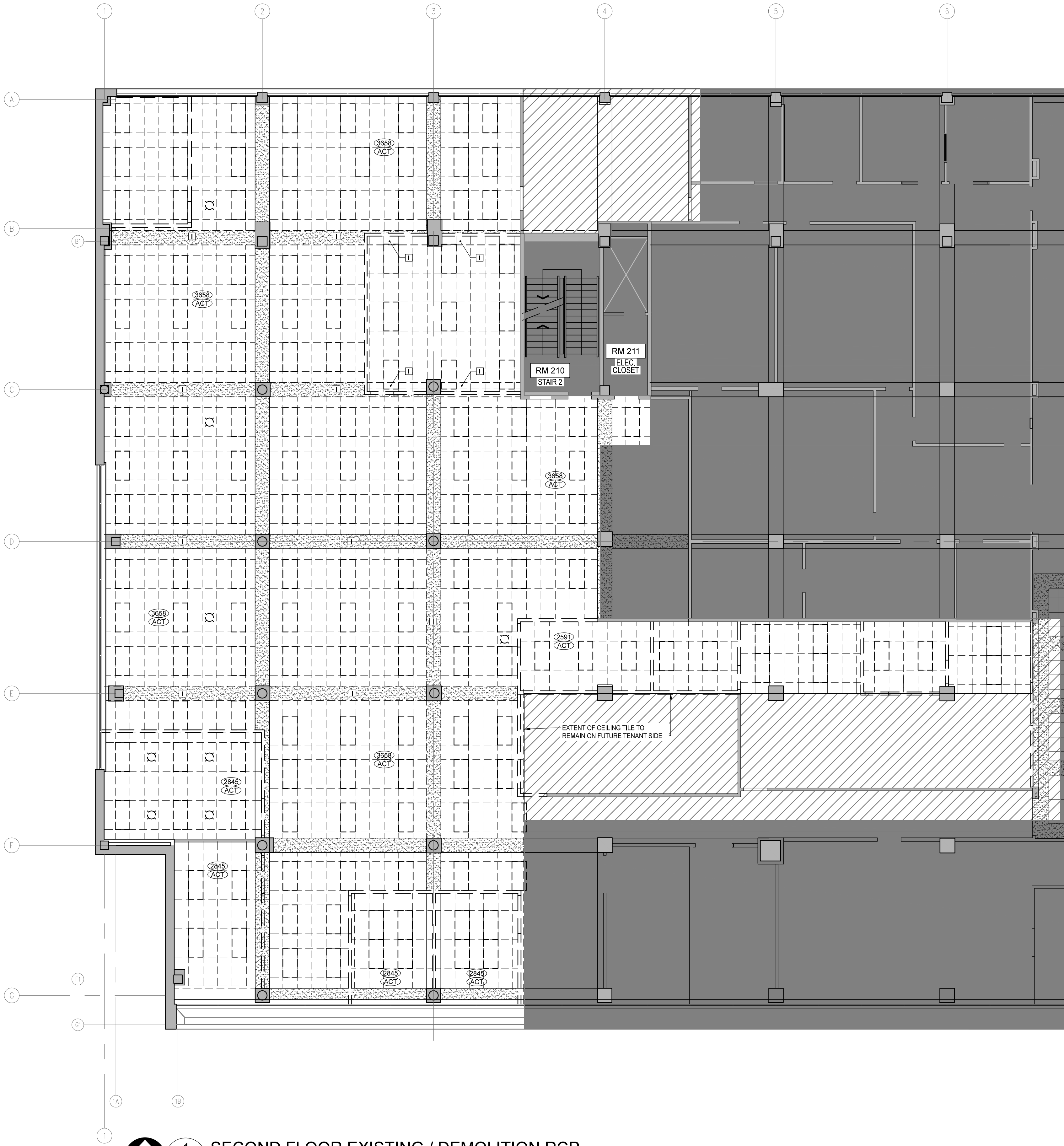
Drawing title/Titre du dessin

SECOND FLOOR EXISTING /
DEMOLITION FLOOR PLAN

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1 SECOND FLOOR EXISTING / DEMOLITION RCP
A3 SCALE: 1:100

RCP LEGEND

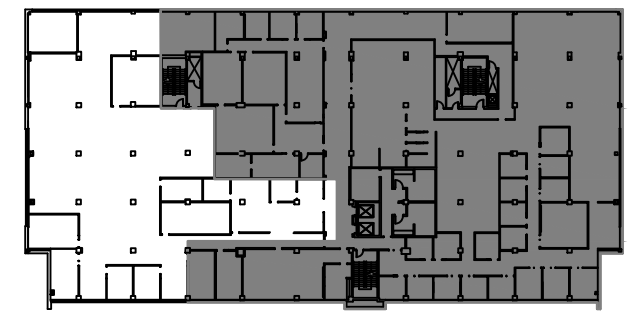
- EXISTING EXTERIOR WALL
- EXISTING WALL CONSTRUCTION
- WALLS TO BE REMOVED
- EXISTING LIGHT FIXTURE TO BE REMOVED
- EXISTING LIGHT FIXTURE TO BE REMOVED
- EXISTING CEILING TILE TO BE REMOVED
- EXISTING GYPSUM BOARD FINISH
- CEILING HEIGHT, A.F.F.
CEILING FINISH
- AREA NOT WITHIN SCOPE OF RENOVATION
- LIMITED SCOPE OF WORK
NOTE: TO INCLUDE DEMO OF INDICATED WALLS AND
MECH. & ELEC. WORK (AS INDICATED ON MECH & ELEC).
FINISHES TO REMAIN. NOT REQUIRED TO MAKE GOOD
EXISTING IN AREAS LABELED AS LIMITED SCOPE.

KEYNOTES

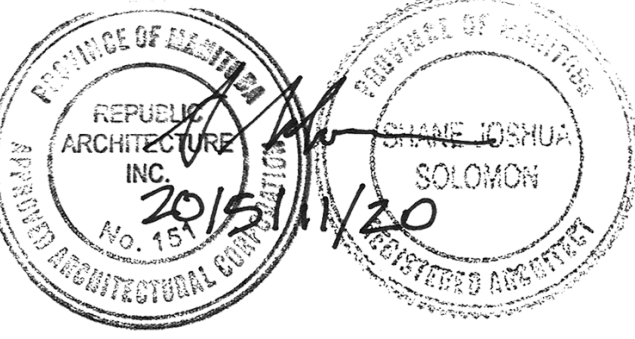
- REMOVE ENTIRE LENGTH OF BULKHEAD BETWEEN COLUMNS.

GENERAL NOTES:

- PATCH & REPAIR ANY DAMAGE CAUSED DURING REMOVAL OF EXISTING CONSTRUCTION AND PREPARE FOR NEW CONSTRUCTION.
- REPLACE DAMAGED OR DISCOLOURED ACT. AS REQUIRED AFTER REMOVAL OF WALLS IN LOCATIONS WHERE EXISTING CEILING WILL REMAIN.
- REMOVED LIGHT FIXTURES TO BE RETURNED TO OWNER UNLESS OTHERWISE REQUESTED.
- REMOVE EXISTING ACT. AND LIGHT FIXTURES AS INDICATED ON PLAN. STORE GOOD CONDITION TILES (FULL TILES FREE OF DISCOLOURATION, HOLES AND STAINS) AND FIXTURES FOR RELOCATION IN RM 100A AND RM 100B IN QUANTITIES AS REQUIRED (REFER TO A5).



KEY PLAN



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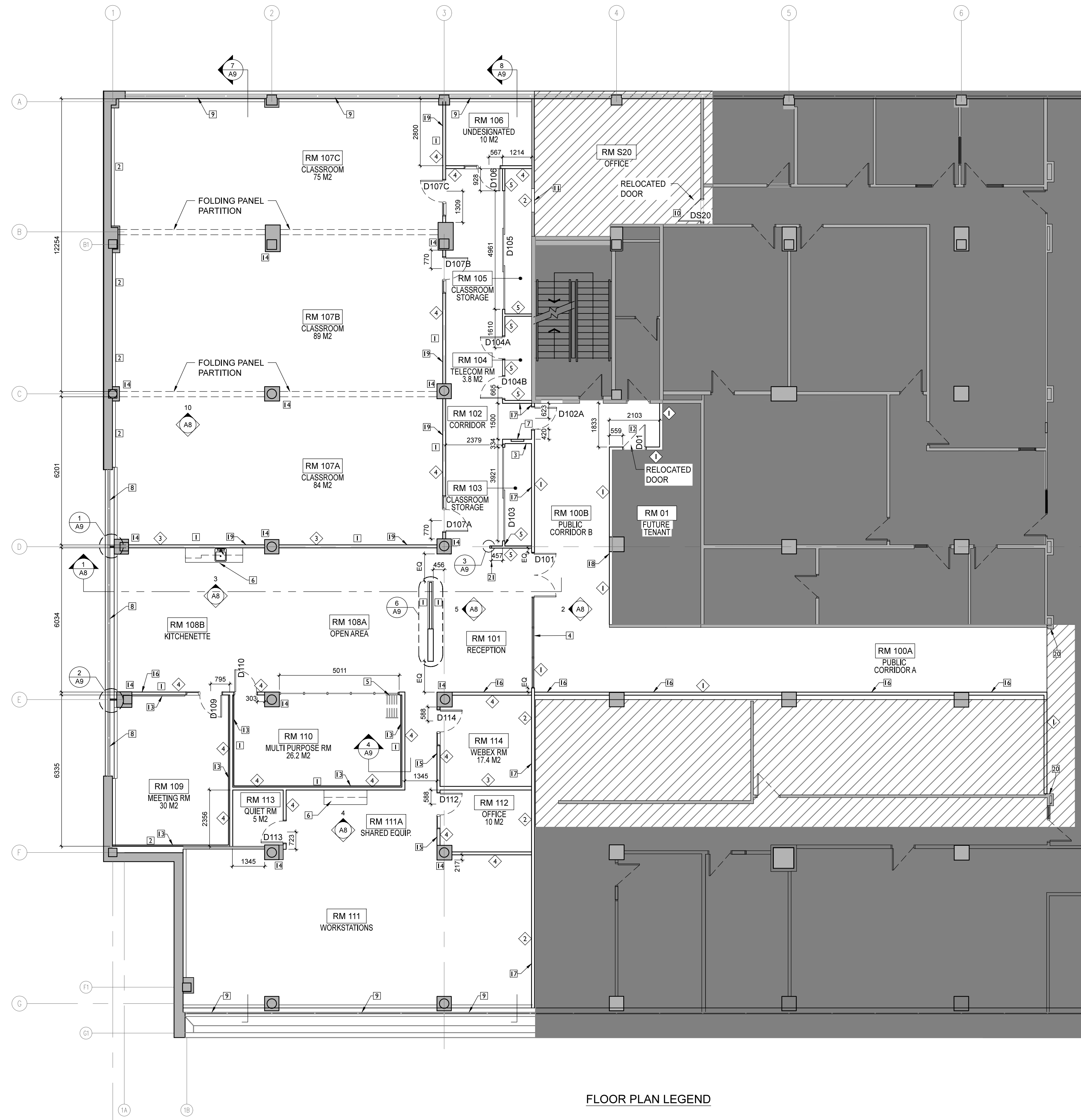
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PWGSC, Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'Ingénierie, TPSCG
Client/client PUBLIC WORKS AND GOVERNMENT SERVICES CANADA
Drawing title/Titre du dessin SECOND FLOOR EXISTING / DEMOLITION REFLECTED CEILING PLAN

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1 SECOND FLOOR CONSTRUCTION PLAN
A4 SCALE: 1:100

FLOOR PLAN LEGEND

- | | | | |
|--|----------------------------------|--|---|
| | EXISTING EXTERIOR WALL | | AREA NOT WITHIN SCOPE OF RENOVATION |
| | EXISTING INTERIOR WALL TO REMAIN | | LIMITED SCOPE OF WORK
NOTE: TO INCLUDE DEMO OF INDICATED WALLS AND MECH. & ELEC. WORK (AS INDICATED ON MECH & ELEC). FINISHES TO REMAIN. NOT REQUIRED TO MAKE GOOD EXISTING IN AREAS LABELED AS LIMITED SCOPE. |
| | NEW WALL CONSTRUCTION | | |
| | NEW DOOR | | |
| | EXISTING DOOR TO REMAIN | | |

KEYNOTES

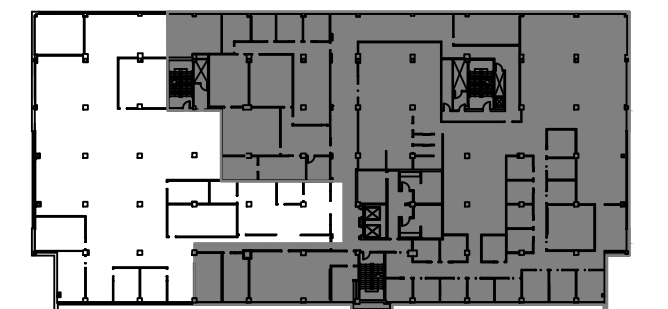
- 1 PROVIDE APPROPRIATE BLOCKING IN NEW WALLS TO SUPPORT 90 KG FOR ALL WALL MOUNTED EQUIPMENT WITHIN WALLS PRIOR TO FINISHING WALL CONSTRUCTION.
- 2 PROVIDE APPROPRIATE BLOCKING IN EXISTING WALLS TO SUPPORT 90 KG FOR ALL WALL MOUNTED EQUIPMENT. CONTRACTOR TO VERIFY EXISTING SITE CONDITIONS AT SITE WALK THROUGH.
- 3 184 mm WALL CONSTRUCTION TO ACCOMMODATE PANEL (SIMILAR TO WALL TYPE 5, REPLACE 64 mm STUD WITH 152 mm STUD).
- 4 INSTALL RELOCATED GLAZING AND ENTRY DOORS (REFER TO 2/A8).
- 5 COLLAPSIBLE (HORIZONTAL) ALUMINUM FRAMED GLAZED PARTITION.
- 6 INSTALL MILLWORK (REFER TO 3/A8 & 4/A8).
- 7 LIGHTING CONTROL PANEL FLUSH IN WALL (REFER TO ELECTRICAL).
- 8 DUAL ROLLER SHADES ON WEST WALLS (1% PERFORATION & BLACKOUT - REFER TO SPEC SECTION 12 24 13).
- 9 SINGLE ROLLER SHADES ON NORTH/SOUTH WALLS (1% PERFORATION - REFER TO SPEC SECTION 12 24 13).
- 10 INSTALL EXISTING DOOR & FRAME REMOVED FROM PREVIOUS DOOR DS06. ENSURE EXISTING WALL THICKNESS WILL SUIT FRAME OF EXISTING DOOR.
- 11 INFILL OPENING TO MEET STANDARDS OF WALL TYPE 2. VERIFY NEW WALL CONSTRUCTION WILL MEET WIDTH OF EXISTING WALL CONSTRUCTION.
- 12 INSTALL EXISTING DOOR & FRAME REMOVED FROM PREVIOUS DOOR DS18B. ENSURE EXISTING WALL THICKNESS WILL SUIT FRAME OF EXISTING DOOR.
- 13 PROVIDE CHAIR RAILS. REFER TO DETAIL 4/A9 AND SPEC SECTION 06 40 00. HEIGHT A.F.F. TO BE CONFIRMED WITH DEPARTMENTAL REPRESENTATIVE.
- 14 FILL VOID AREA BETWEEN STEEL STUD AND DRYWALL OUTER COLUMN CLADDING AND INNER STRUCTURAL COLUMN CLADDING WITH CELLULOSE BLOWN IN INSULATION TO TOP OF EXISTING STEEL STUD FRAMING. CONFIRM QUANTITY AT CONTRACTOR WALK THROUGH.
- 15 ALIGN NEW WALLS & BULKHEADS AS INDICATED WITH COLUMN FACE. COLUMN FACE PROTRUDING FURTHEST WEST SETS THE PLANE.
- 16 ALIGN NEW WALLS & BULKHEADS AS INDICATED WITH COLUMN FACE. COLUMN FACE PROTRUDING FURTHEST NORTH SETS THE PLANE.
- 17 ALIGN NEW WALL WITH EXISTING STAIRWAY WALL FINISH.
- 18 ALIGN WALL WITH WEST COLUMN FACE.
- 19 CENTRE NEW WALL ON GRIDLINE.
- 20 REVIEW EXISTING CONDITION (POST DEMOLITION) WITH DEPARTMENTAL REPRESENTATIVE FOR TIE IN SOLUTION.
- 21 WEST DIMENSION POINT TO FACE OF STUD.

GENERAL NOTES

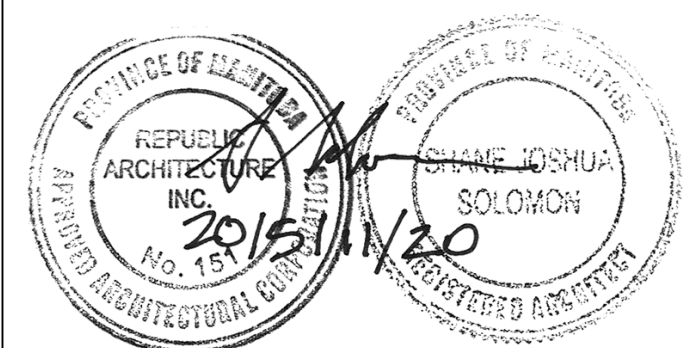
1. NOTES REGARDING "MAKE GOOD EXISTING" DO NOT APPLY TO AREAS IDENTIFIED AS HAVING A LIMITED SCOPE.
2. ALL NEW WALL MOUNTED FIXTURE AND MILLWORK TO HAVE APPROPRIATE BLOCKING WITHIN WALLS PRIOR TO FINISHING WALL CONSTRUCTION. CONFIRM HEIGHT AND EXTENT OF BLOCKING WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO CONSTRUCTION.
3. PATCH AND REPAIR ANY SYSTEMS, WALLS, CEILING, SURFACES OR FLOORS DAMAGED DURING CONSTRUCTION.
4. MAINTAIN INTEGRITY OF ALL EXISTING ACOUSTIC, FIRE AND SMOKE SEPARATIONS INCLUDING PENETRATIONS AT FLOOR SLABS.
5. REFER TO A5 FOR FOR NEW ACOUSTIC SEPARATION REQUIREMENTS.
6. OPEN EXISTING WALL CONSTRUCTION AS REQUIRED FOR BLOCKING. PATCH, SAND AND MAKE GOOD ON PARTITION SURFACE TO RECEIVE NEW PAINT FINISH.
7. DIMENSIONS TO FACE OF GWB UNLESS OTHERWISE INDICATED.
8. DIMENSIONS TO CENTRE LINE OF ROUGH OPENING FOR DOORS UNLESS OTHERWISE INDICATED.

NEW INTERIOR WALL TYPES

- 1 0 HOUR F.R.R. INT. WALL - TO U/S SLAB
NBCC S4b - STC 47, UL DES U407
- 16 mm TYPE X GYPSUM BOARD - PTD
- 92 mm STEEL STUDS @ 400mm O.C.
- 89 mm MINERAL FIBRE INSULATION
- 16 mm TYPE X GYPSUM BOARD - PTD
- 2 1 HOUR F.R.R. INT. WALL - TO U/S SLAB
NBCC S4b - STC 47, UL DES U407
- 16 mm TYPE X GYPSUM BOARD - PTD
- 92 mm STEEL STUDS @ 400mm O.C.
- 89 mm MINERAL FIBRE INSULATION
- 16 mm TYPE X GYPSUM BOARD - PTD
- 3 INT. WALL - TO U/S BULKHEAD/ACOUSTIC CEILING TILE
NBCC S4b - STC 47
PLENUM BARRIER FROM TOP OF WALL TO U/S OF SLAB CONTINUOUS IN LOCATIONS AS INDICATED ON 1/A5. REFER TO SIMILAR SECTION 2/A10 & 5/A10.
- 16 mm GYPSUM BOARD - PTD
- 92 mm STEEL STUDS @ 400mm O.C.
- 89 mm MINERAL FIBRE INSULATION
- 16 mm GYPSUM BOARD - PTD
- 4 INT. WALL - ABOVE CEILING
NBCC S4b - STC 47
TOP OF WALL TO EXTEND APPROXIMATELY 40mm ABOVE DIRECTLY ADJACENT MAXIMUM CEILING HEIGHT. PLENUM BARRIER FROM TOP OF WALL TO U/S OF SLAB CONTINUOUS IN LOCATIONS AS INDICATED ON 1/A5. REFER TO SIMILAR SECTION 3/A10.
- 16 mm GYPSUM BOARD - PTD
- 92 mm STEEL STUDS @ 400mm O.C.
- 89 mm MINERAL FIBRE INSULATION
- 16 mm GYPSUM BOARD - PTD
- 5 INT. WALL - ABOVE CEILING
NBCC S1b - STC 39
TOP OF WALL TO EXTEND APPROXIMATELY 40mm ABOVE DIRECTLY ADJACENT MAXIMUM CEILING HEIGHT.
- 16 mm GYPSUM BOARD - PTD
- 64 mm STEEL STUDS @ 400mm O.C.
- 65 mm MINERAL FIBRE INSULATION
- 16 mm GYPSUM BOARD - PTD



KEY PLAN



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**SECOND FLOOR CONSTRUCTION
PLAN**

Project No./No. du
projet

R.060508.003

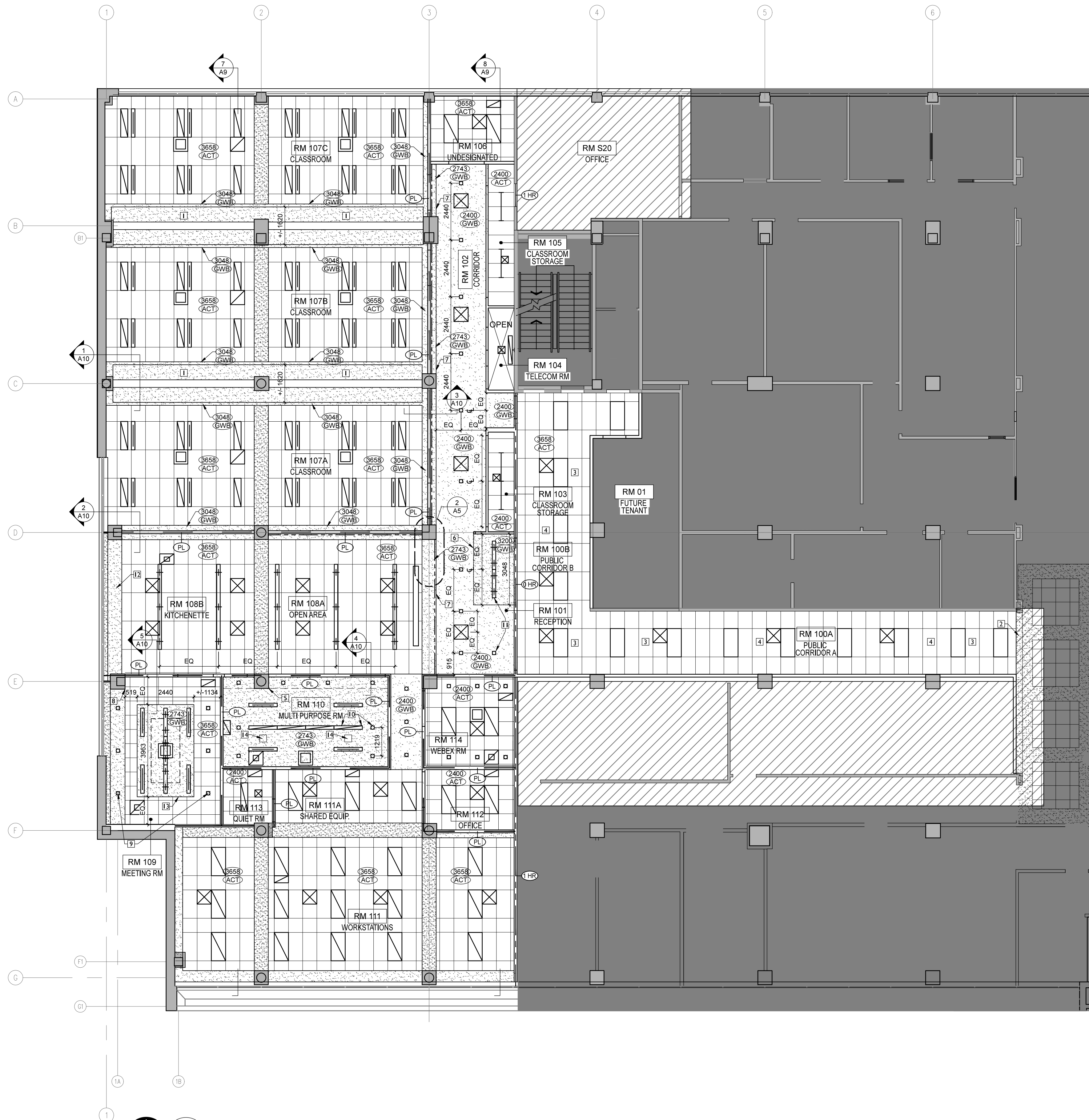
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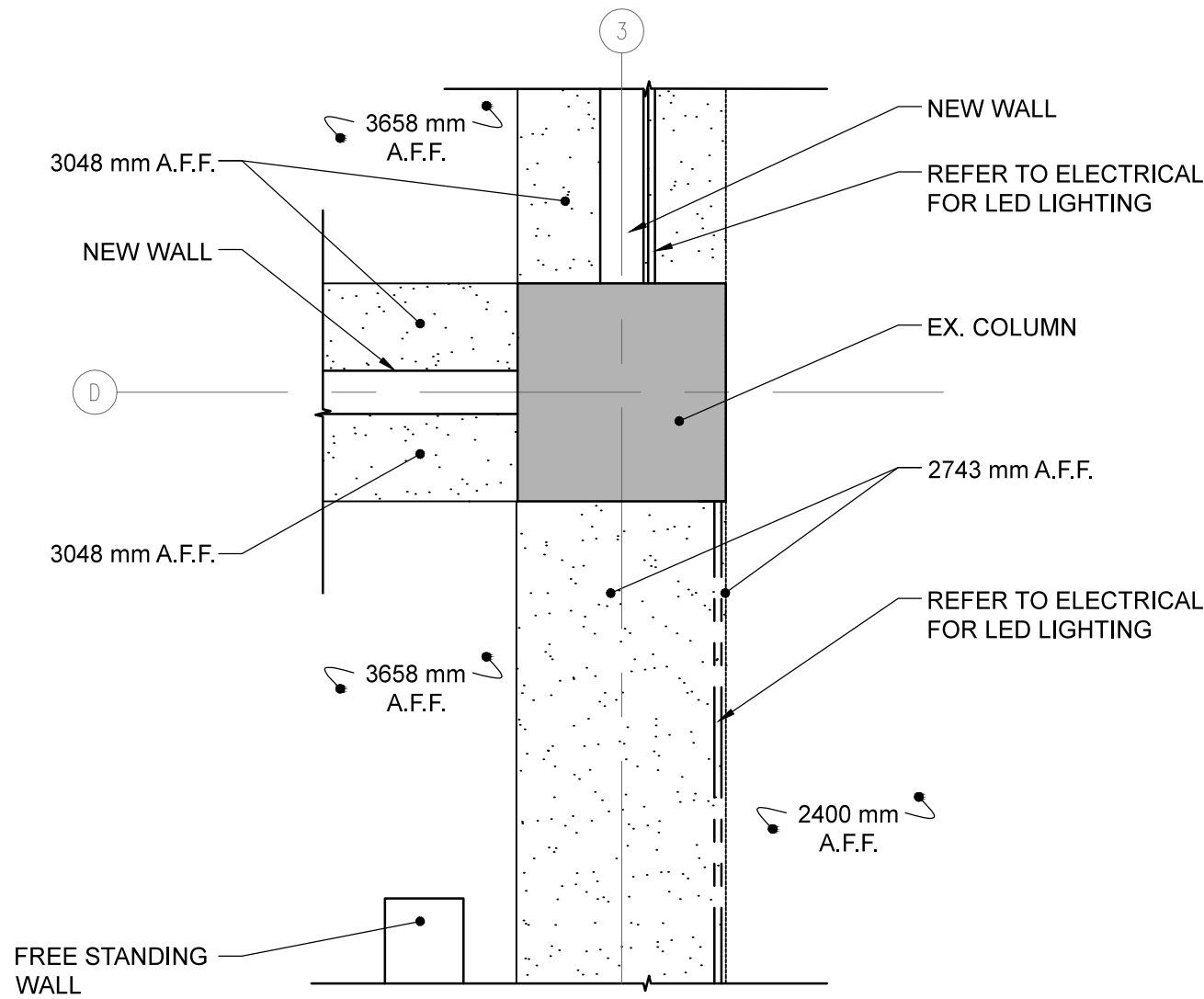
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1 SECOND FLOOR CONSTRUCTION RCP
A5 SCALE: 1:100

GENERAL NOTES

- NOTES REGARDING "MAKE GOOD EXISTING" DO NOT APPLY TO AREAS IDENTIFIED AS HAVING A LIMITED SCOPE.
- ENSURE THAT ALL PIPING, DUCTING AND ANY OPENINGS THAT RUN THROUGH NEW SLAB TO SLAB PARTITIONS OR PLENUM BARRIERS ARE FIRESTOPPED TO MEET FRR SEPARATIONS AND PROPERLY SEALED WITH ACOUSTIC CAULKING TO ACHIEVE STC SEPARATIONS. REFER TO MECHANICAL.
- INSTALL BLOCKING AND/OR BRACING IN CEILING AS REQUIRED TO SUPPORT DOORS, FRAMES AND SIDELIGHTS.



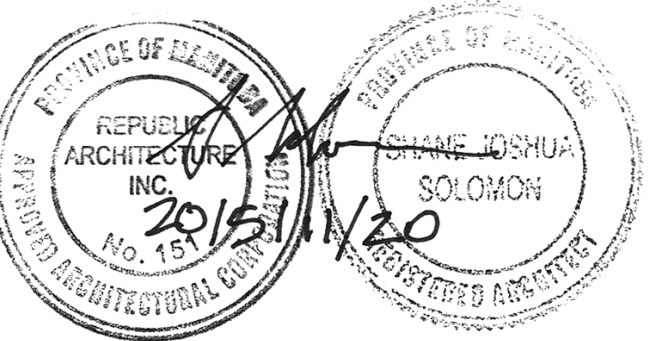
2 BULKHEAD CEILING HEIGHT DETAIL
A5 SCALE: 1:20

RCP LEGEND

- NEW RETURN AIR
- NEW EXHAUST GRILLE
- NEW AIR CONDITIONING UNIT
- NEW SUPPLY DIFFUSER
- EXISTING LIGHT FIXTURE RELOCATED FROM EXISTING SPACE
- NEW RECESSED LUMINAIRE (610 X 1220)
- NEW RECESSED LUMINAIRE (305 X 1220)
- NEW RECESSED LUMINAIRE (152 X 1220)
- NEW WALL MOUNT LUMINAIRE
- COVE STRIP LIGHTING
- LINEAR & SUSPENDED FIXTURE
- STRIP STYLE LUMINAIRE
- RECESSED DOWNLIGHT
- 1219 mm x 610 mm ACOUSTIC CEILING TILE (NEW UNLESS INDICATED W/ KEYNOTE 3)
- 610 mm x 610 mm ACOUSTIC CEILING TILE (NEW)
- EXISTING GYPSUM BOARD FINISH
- NEW GYPSUM BOARD FINISH
- CEILING HEIGHT, A.F.F. CEILING FINISH
- NEW FIRE RESISTANCE RATING SEPARATION (FRR) (REFER TO A3)
- ACOUSTIC PLENUM BARRIER (REFER TO SPEC.)
- AREA NOT WITHIN SCOPE OF RENOVATION
- LIMITED SCOPE OF WORK
NOTE: TO INCLUDE DEMO OF INDICATED WALLS AND MECH. & ELEC. WORK (AS INDICATED ON MECH & ELEC). FINISHES TO REMAIN. NOT REQUIRED TO MAKE GOOD EXISTING IN AREAS LABELED AS LIMITED SCOPE.

KEYNOTES

- POCKET FOR FOLDING PANEL PARTITIONS
- PATCH, REPAIR AND MAKE GOOD CEILING AT LOCATION WHERE ACT. MEETS EXISTING HALLWAY BULKHEAD. REVIEW W/ DEPARTMENTAL REPRESENTATIVE (POST DEMOLITION) FOR BULKHEAD DETAIL.
- REUSE EXISTING STORED ACT. AND LIGHT FIXTURES IN RM 100A PUBLIC CORRIDOR A AND RM 100B PUBLIC CORRIDOR B.
- INSTALL ACT. AT MAXIMUM HEIGHT A.F.F. TO CLEAR ANY EXISTING STRUCTURAL MEMBERS (IE: BULKHEADS)
- CONTROL JOINT TO ALIGN W/ COLUMN.
- ALIGN BULKHEAD FACE W/ EDGE OF WALL.
- ALIGN BULKHEAD EAST VERTICAL FACE WITH COLUMNS AT INTERSECTIONS OF GRIDLINE 3 AND A, B, & C AT THEIR MOST WESTERLY EAST FACE.
- ALIGN BULKHEAD W/ FACE OF COLUMN.
- RECESSED DOWNLIGHT TO BE CENTERED IN CEILING TILE. DOWNLIGHT IN BULKHEAD TO ALIGN WITH DOWNLIGHT IN ACT. ON EAST / WEST PLANE.
- RECESSED DOWNLIGHT TO ALIGN WITH RECESSED LIGHT FIXTURE.
- RECESSED DOWNLIGHT TO ALIGN WITH SUSPENDED LIGHT FIXTURE.
- GWB BULKHEAD TO MATCH HEIGHT A.F.F. OF EXISTING BULKHEAD ALONG GRIDLINE 2.
- DROP CEILING TO BE CENTERED OVER MEETING ROOM TABLE.
- ACCESS HATCH (305 mm x 305 mm).



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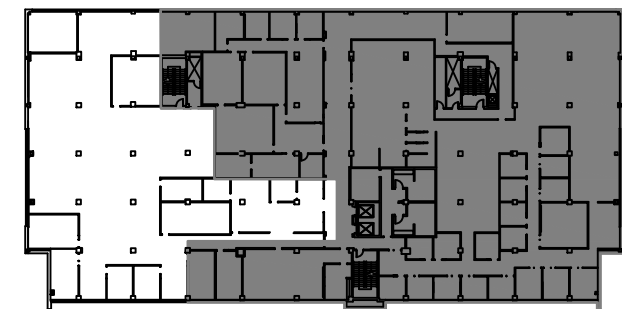
CANADA SCHOOL OF PUBLIC SERVICE (CSPS)

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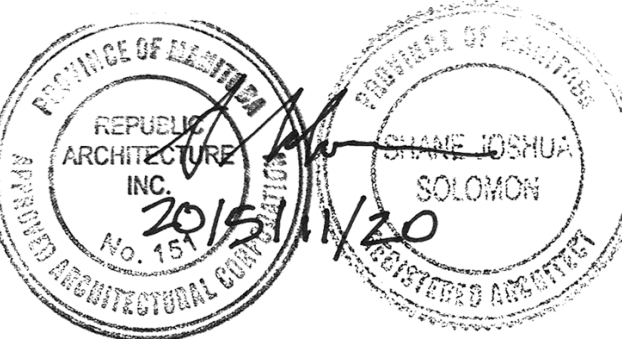
Project title/Titre du projet
**2ND FLOOR - 391 YORK AVENUE
WINNIPEG, MANITOBA**
CSPS WINNIPEG FIT-UP

Approved by/Approuvé par
SS
Designed by/Concept par
BP
Drawn by/Dessiné par
HR
PWGSC Project Manager/Administrateur de Projets TPSCG
JOHN ALIBIN
PWGSC, Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie, TPSCG
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**SECOND FLOOR CONSTRUCTION
REFLECTED CEILING PLAN**



KEY PLAN



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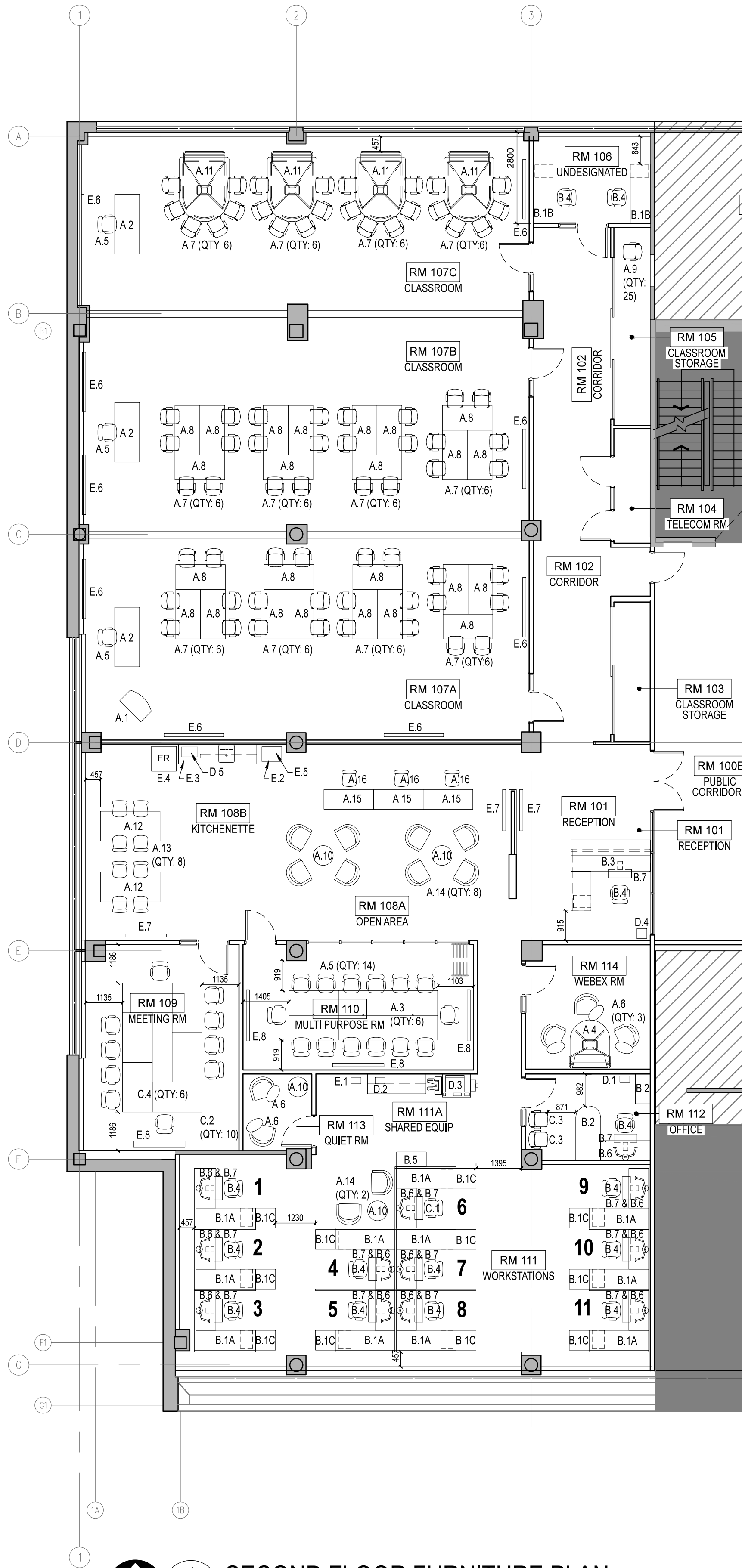
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SECOND FLOOR FURNITURE PLAN

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FURNITURE NOTES

SCHEDULE A:
FURNITURE PROCURED BY THE TENANT (N.I.C.)

- A.1 (x 1) PODIUM
- A.2 (x 3) CLASSROOM INSTRUCTOR TABLE (1829mm x 762mm)
- A.3 (x 6) MEETING ROOM FLIP TOP TABLE ON CASTERS (1524mm x 762mm)
- A.4 (x 11) WEBEX COMMUNICATIONS TABLE
- A.5 (x 17) MEETING CHAIR
- A.6 (x 5) LOUNGE CHAIR W/ TABLET
- A.7 (x 72) CLASSROOM CHAIR
- A.8 (x 24) CLASSROOM FLIP TOP TABLE ON CASTERS (1524mm x 762mm)
- A.9 (x 25) STACKING CHAIR
- A.10 (x 4) COFFEE TABLE (610mm Ø)
- A.11 (x 4) CLASSROOM COMMUNICATIONS TABLE
- A.12 (x 2) KITCHENETTE TABLE (1829mm x 915mm)
- A.13 (x 8) KITCHENETTE CHAIR
- A.14 (x 10) LOUNGE CHAIR
- A.15 (x 3) BAR HEIGHT TABLE (1524mm x 610mm)
- A.16 (x 3) BAR HEIGHT STOOL

SCHEDULE B:
FURNITURE PROCURED BY PWGSC (N.I.C.)

- B.1A (x 11) TYP. WORKSTATION DESK (2439mm x 1829mm)
- B.1B (x 2) UNDESIGNATED DESK (1830mm x 610mm) 2 x 915mm per desk
- B.1C (x 11) PERSONAL STORAGE TOWER
- B.2 (x 1) ENCLOSED OFFICE SUITE
- B.3 (x 1) RECEPTION DESK
- B.4 (x 14) TASK CHAIR
- B.5 (x 1) 4 DRAWER FILE CABINET (915mm x 457mm)
- B.6 (x 12) DUAL MONITOR ARM
- B.7 (x 13) KEYBOARD TRAY

SCHEDULE C:
EXISTING FURNITURE TO BE MOVED (N.I.C.)
REFER TO FF&E DOCUMENT FOR CODES

- C.1 (x 1) TASK CHAIR
- C.2 (x 10) MEETING CHAIR
- C.3 (x 2) GUEST CHAIR
- C.4 (x 6) MEETING ROOM TABLE (1524mm x 915mm) - (CODE 1)

SCHEDULE D:
EXISTING EQUIPMENT PROVIDED BY TENANT (N.I.C.)
REFER TO FF&E DOCUMENT FOR CODES

- D.1 (x 1) SHREDDER (CODE 3)
- D.2 (x 1) LAMINATOR (CODE 2)
- D.3 (x 1) PRINTER/COPIER/SCANNER (CODE 4)
- D.4 (x 1) SCALE (CODE 6)
- D.5 (x 1) MICROWAVE (305mm x 508mm x 356mm)

SCHEDULE E:
NEW EQUIPMENT PROVIDED BY TENANT (N.I.C.)

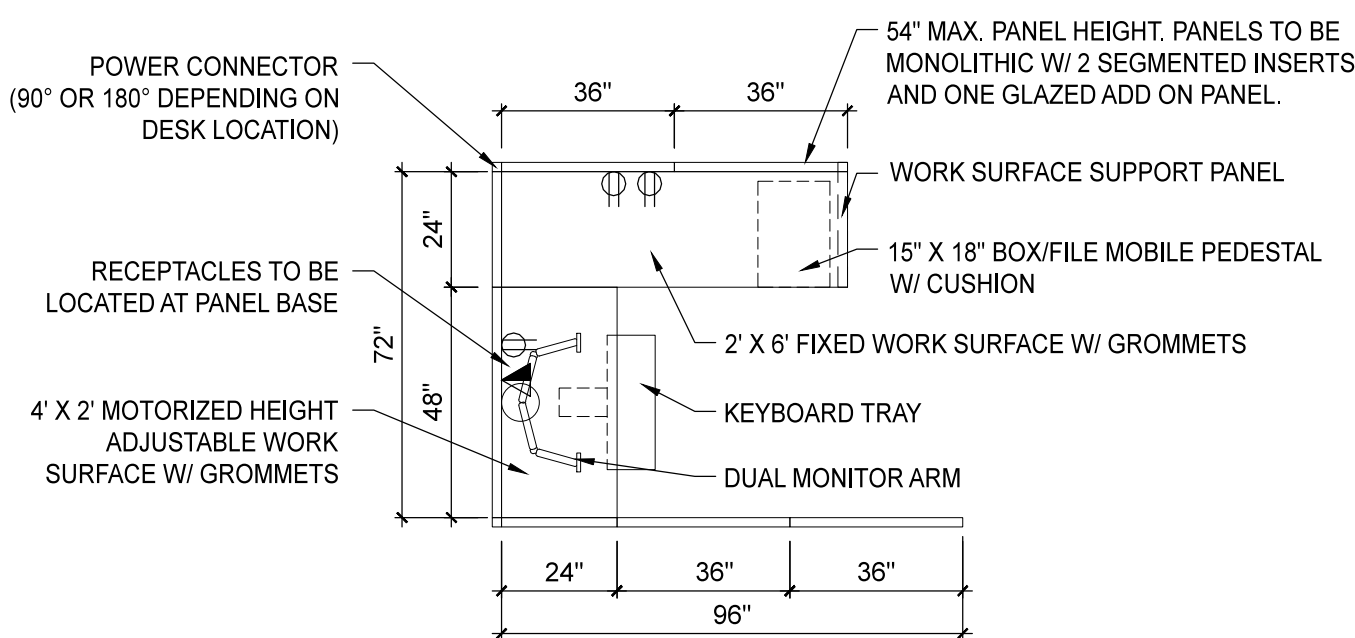
- E.1 (x 1) SHREDDER
- E.2 (x 1) COFFEE STATION CART
- E.3 (x 1) MICROWAVE
- E.4 (x 1) FRIDGE
- E.5 (x 1) COFFEE MACHINE
- E.6 (x 9) 80" WALL MOUNTED LED SCREEN
- E.7 (x 3) 55" WALL MOUNTED TELEVISION SCREEN
- E.8 (x 4) 70" WALL MOUNTED TELEVISION SCREEN

GENERAL NOTES

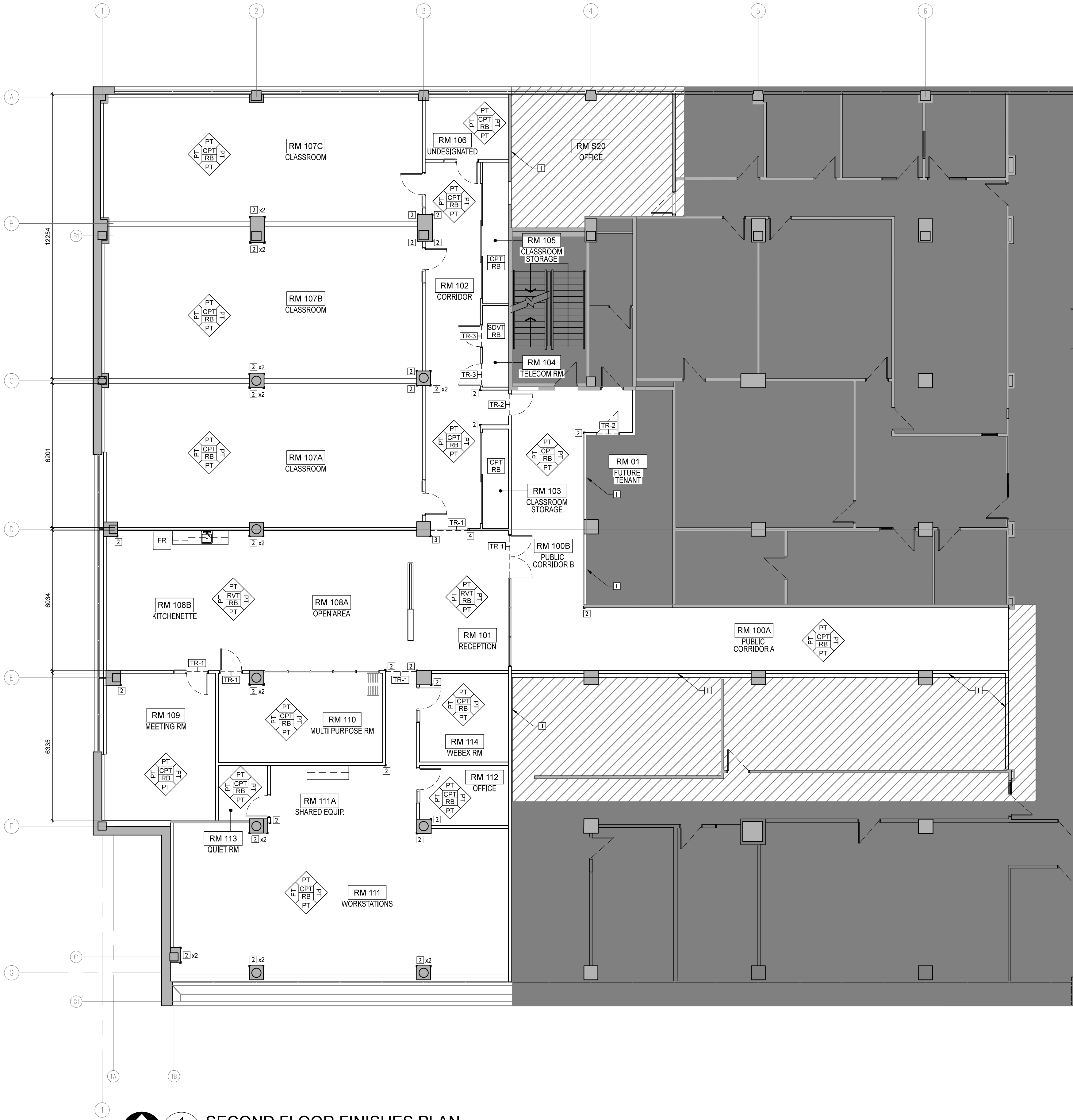
1. PROVIDE APPROPRIATE BLOCKING TO SUPPORT 90 KG FOR ALL WALL MOUNTED EQUIPMENT WITHIN WALLS PRIOR TO FINISHING WALL CONSTRUCTION. EXACT LOCATIONS OF WALL MOUNTED EQUIPMENT TO BE CONFIRMED WITH TENANT PRIOR TO INSTALLATION.
2. CONFIRM LOCATIONS FOR EXACT FURNITURE PLACEMENT WITH TENANT.
3. PROVIDE MIN. 457 mm BETWEEN FURNITURE AND RADIATORS.
4. ALL FURNITURE DIMS ARE FROM FACE OF FINISHED WALL UNLESS OTHERWISE INDICATED.

AREA NOT WITHIN SCOPE OF RENOVATION

LIMITED SCOPE OF WORK
NOTE: TO INCLUDE DEMO OF INDICATED WALLS AND MECH. & ELEC. WORK (AS INDICATED ON MECH & ELEC). FINISHES TO REMAIN. NOT REQUIRED TO MAKE GOOD EXISTING IN AREAS LABELED AS LIMITED SCOPE.



TYPICAL WORK STATION (CODE B.1A)



1 SECOND FLOOR FINISHES PLAN
A7 SCALE: 1:100

FLOOR PLAN LEGEND

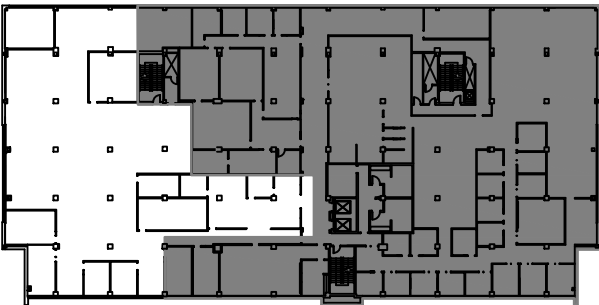
- EXISTING EXTERIOR WALL
- EXISTING INTERIOR WALL TO REMAIN
- NEW WALL CONSTRUCTION
- NEW DOOR
- EXISTING DOOR TO REMAIN
- AREA NOT WITHIN SCOPE OF RENOVATION
- LIMITED SCOPE OF WORK
NOTE: TO INCLUDE DEMO OF INDICATED WALLS AND MECH. & ELEC. WORK (AS INDICATED ON MECH & ELEC). FINISHES TO REMAIN. NOT REQUIRED TO MAKE GOOD EXISTING IN AREAS LABELED AS LIMITED SCOPE.

KEYNOTES

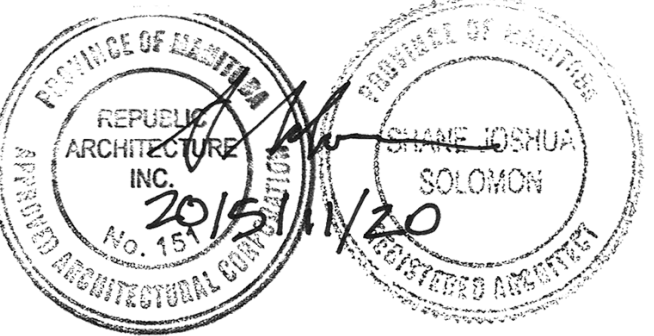
- 1 NO PAINT ON FUTURE TENANT SIDE.
- 2 PROVIDE CORNER GUARDS AT HEIGHT OF 1219mm A.F.F. (REFER TO SPEC SECTION 10 26 00).
- 3 PROVIDE CORNER GUARD (REFER TO SPEC SECTION 10 26 00 AND ELEVATION 1/A8). EXTEND TO U/S OF FLOOR AND CEILING.
- 4 PROVIDE END WALL PROTECTOR (REFER TO SPEC SECTION 10 26 00 AND DETAIL 3/A9).

GENERAL NOTES

- 1. ALL WALLS TO RECEIVE PAINT EXCEPT AS INDICATED IN KEYNOTE 1.
- 2. PAINT RADIATORS TO MATCH WALL BEHIND WITH INDICATED PAINT COLOUR.
- 3. REFER TO FINISH SCHEDULE FOR ALL FINISHES.
- 4. PROVIDE NEW FLOORING AND BASE COMPLETE WITH TRANSITIONS (REFER TO SPEC) THROUGHOUT SPACE AS INDICATED.
- 5. REFER TO DOOR SCHEDULE FOR DOOR & FRAME FINISHES.



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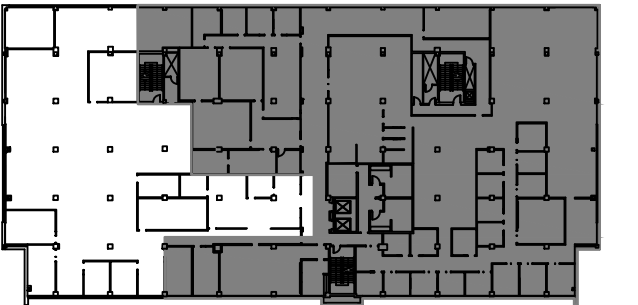
SECOND FLOOR FINISHES PLAN

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R.060508.003

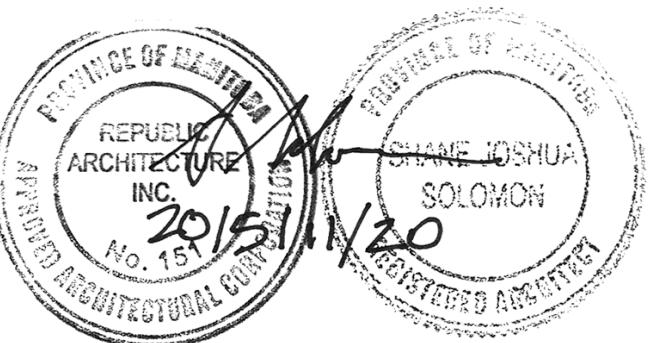
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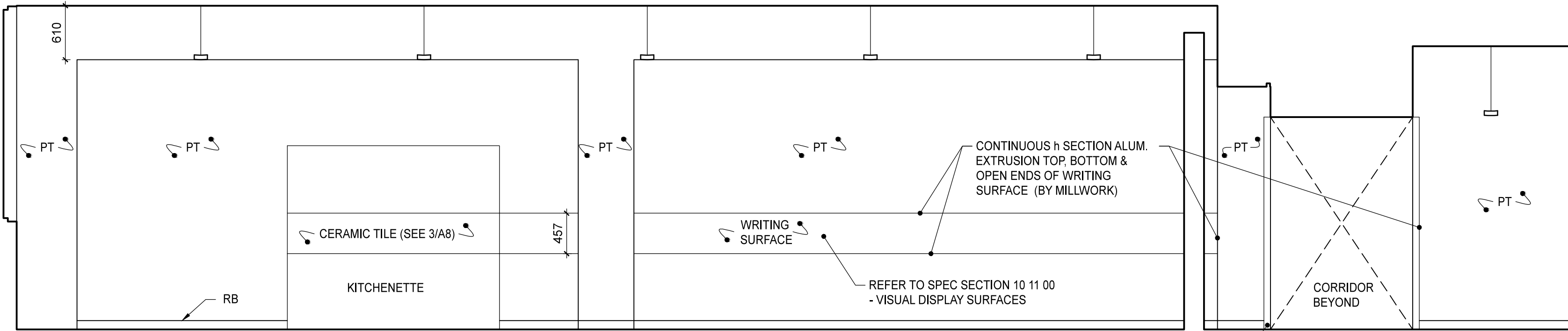
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INTERIOR ELEVATIONS, MILLWORK
SECTIONS

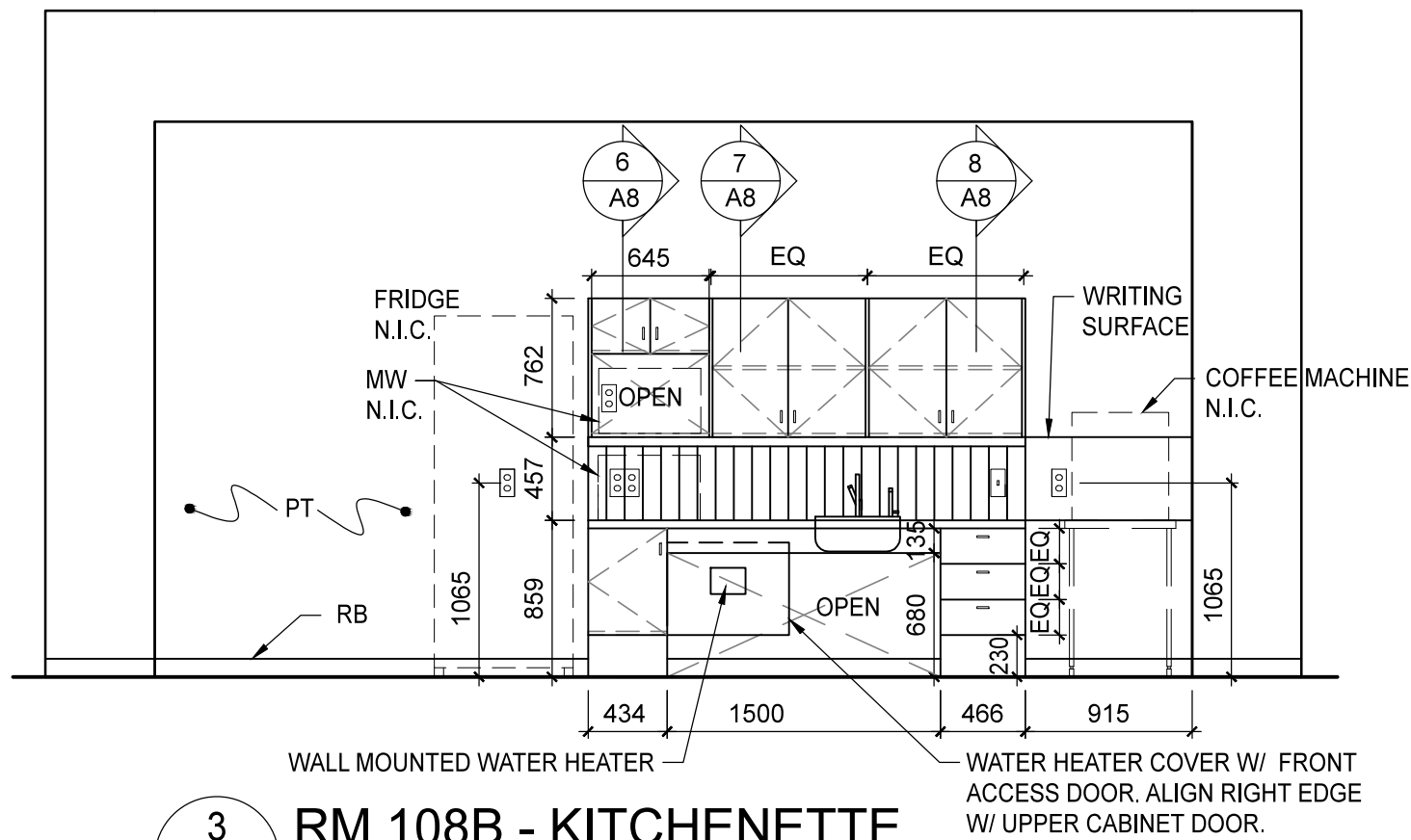
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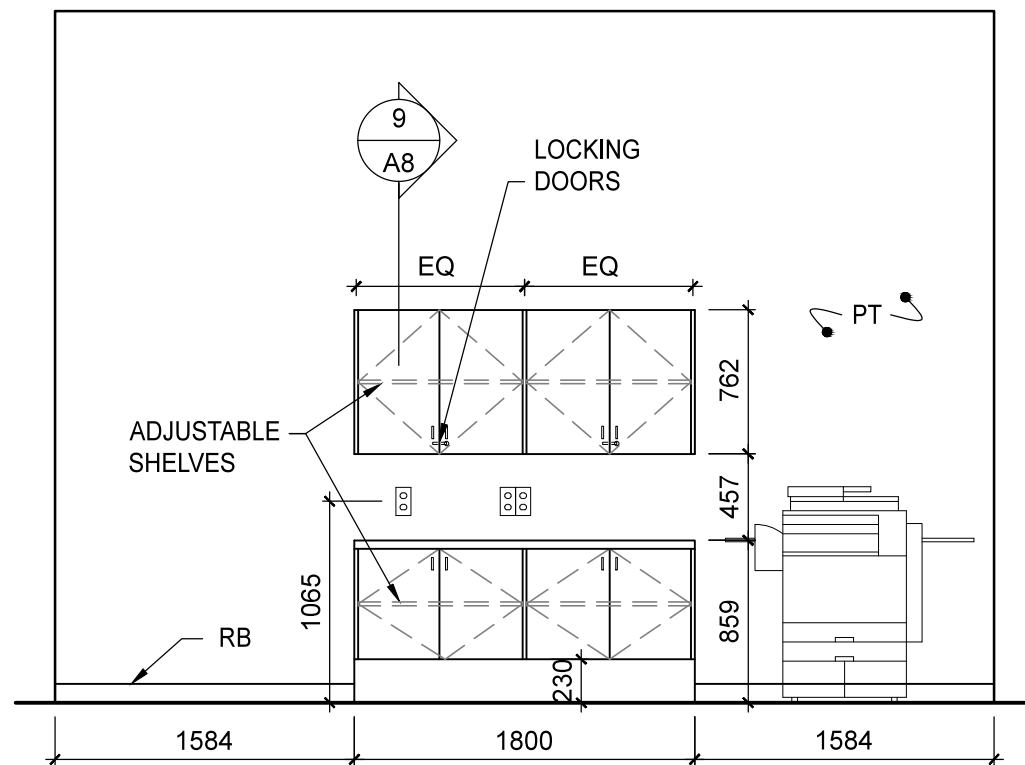
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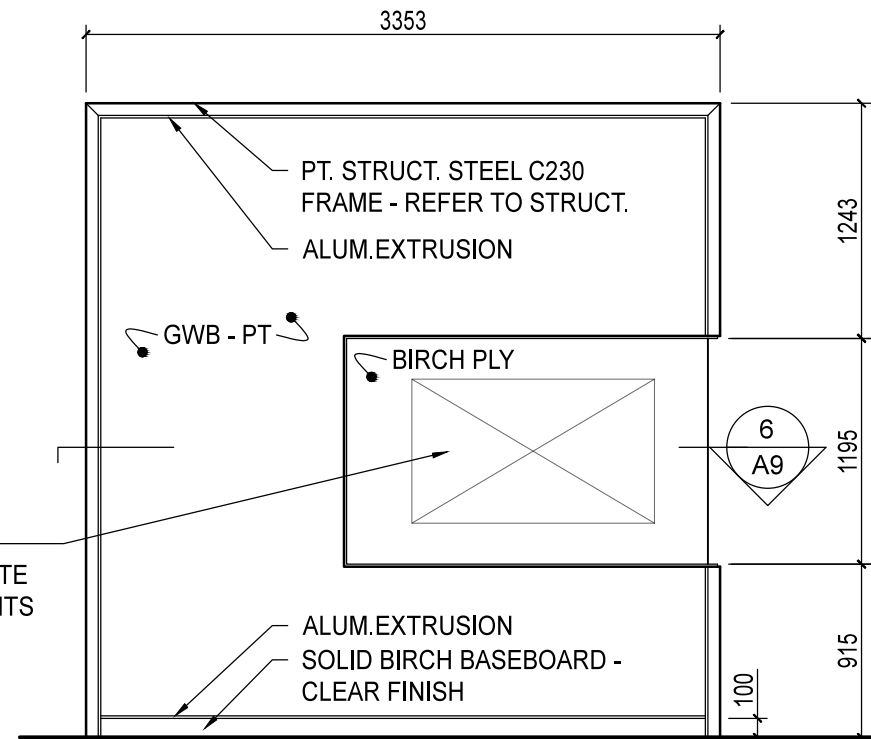
1 RM 108B - KITCHENETTE / RM 108A - OPEN AREA
A8 SCALE: 1:40



3 RM 108B - KITCHENETTE
A8 SCALE: 1:40

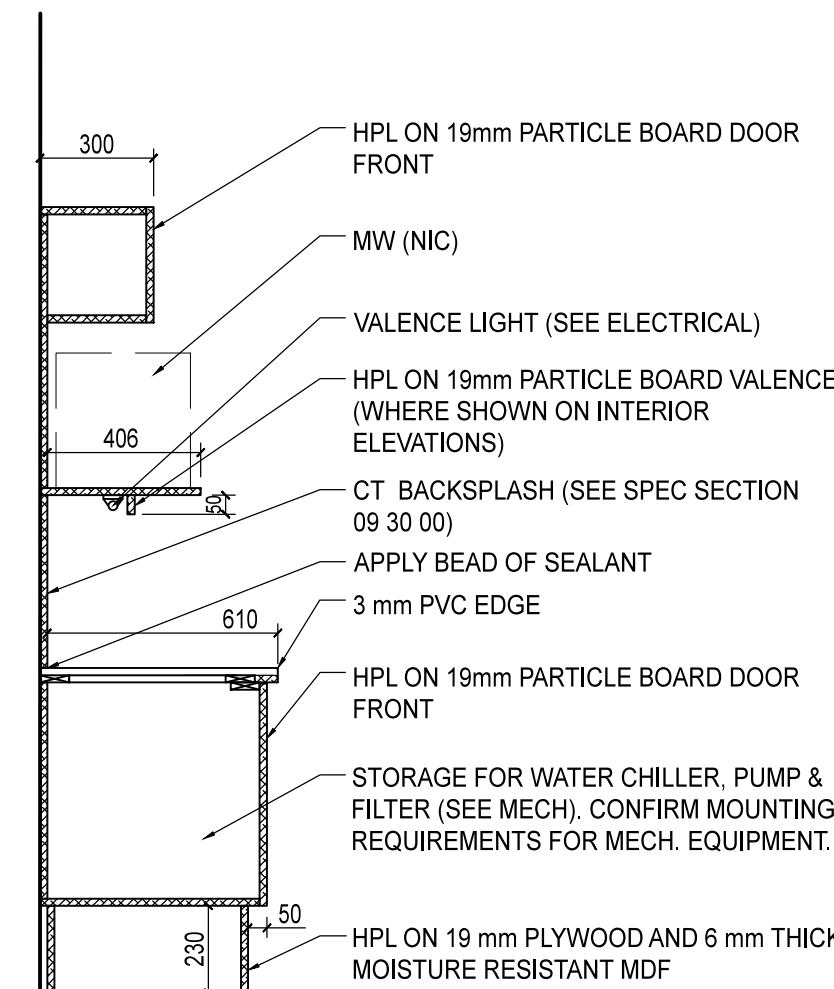


4 RM 111A - SHARED EQUIPMENT
A8 SCALE: 1:40

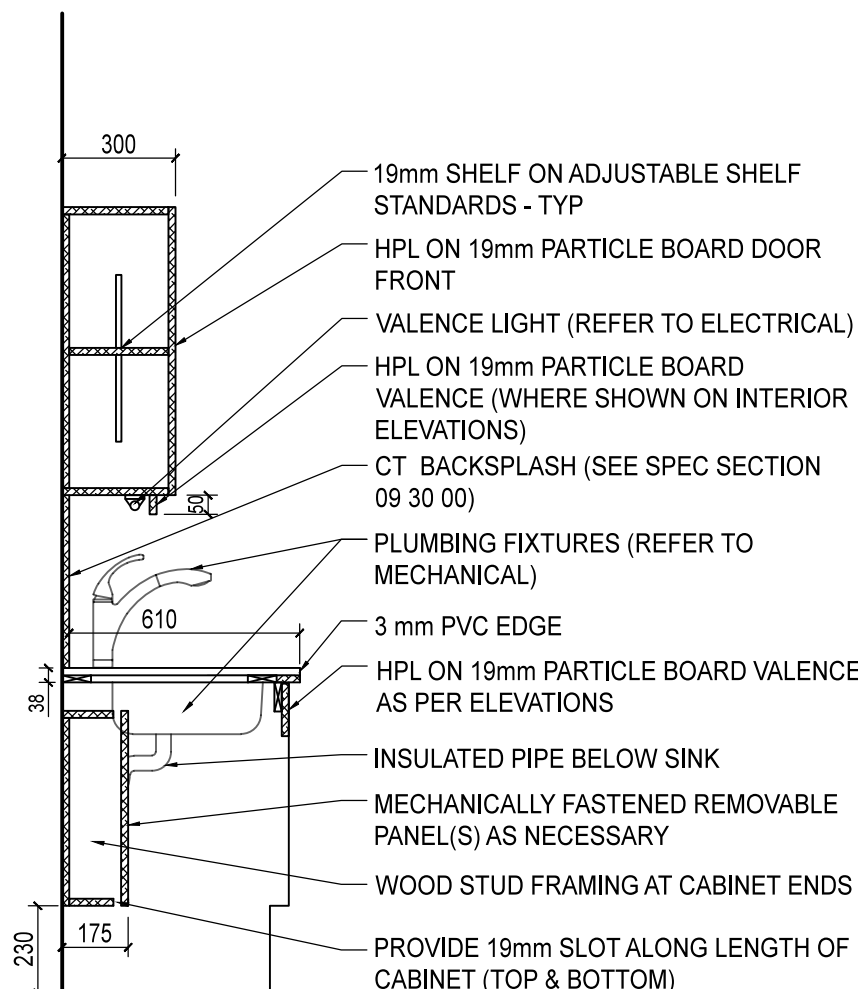


5 PARTIAL HEIGHT WALL
RM 108A - OPEN AREA
A8 SCALE: 1:40

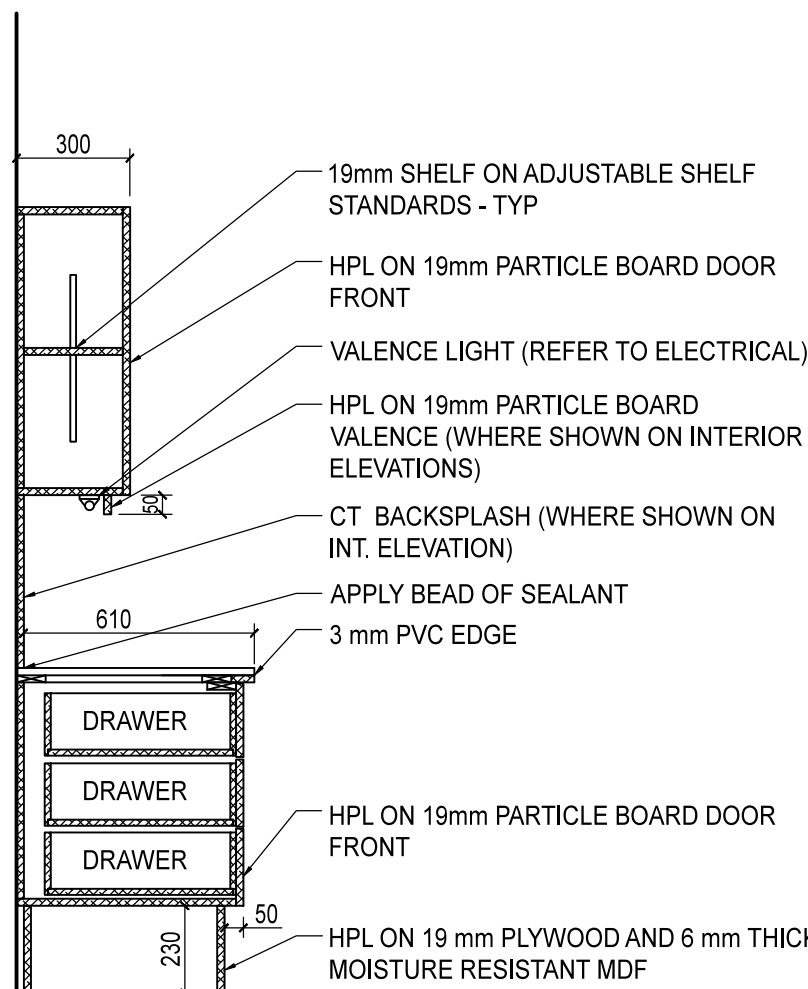
NOTE: COORDINATE ROUGH OPENING W/ WINDOW & DOOR INSTALLER



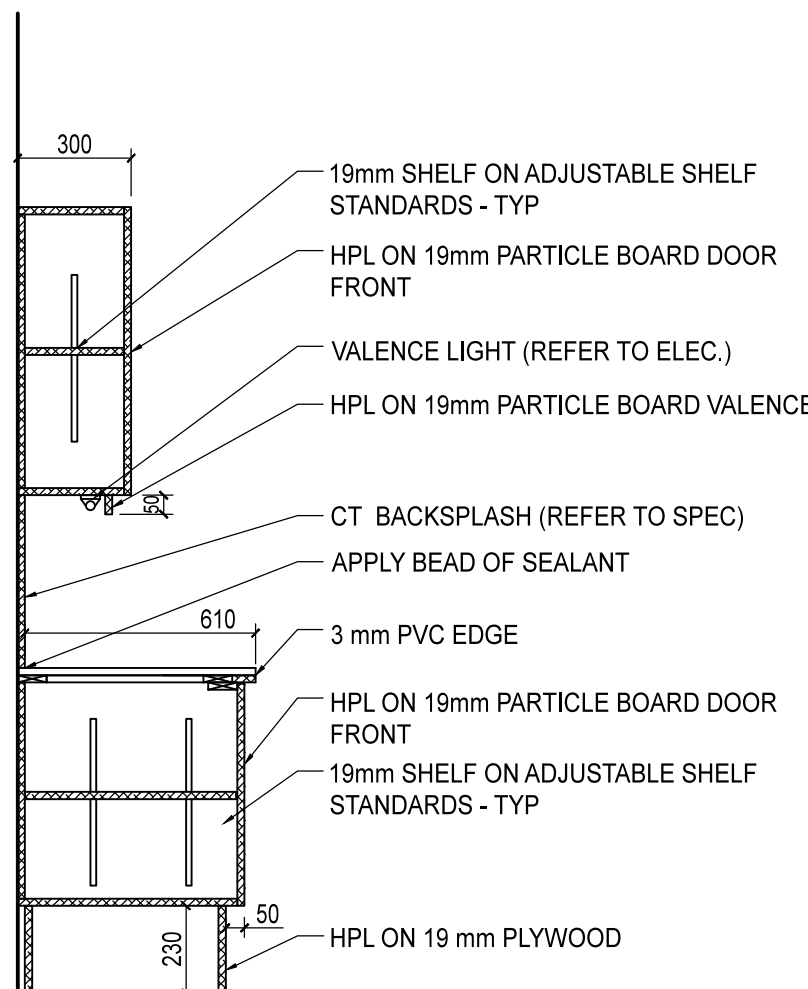
6 KITCHENETTE
MILLWORK SECTION
A8 SCALE: 1:20



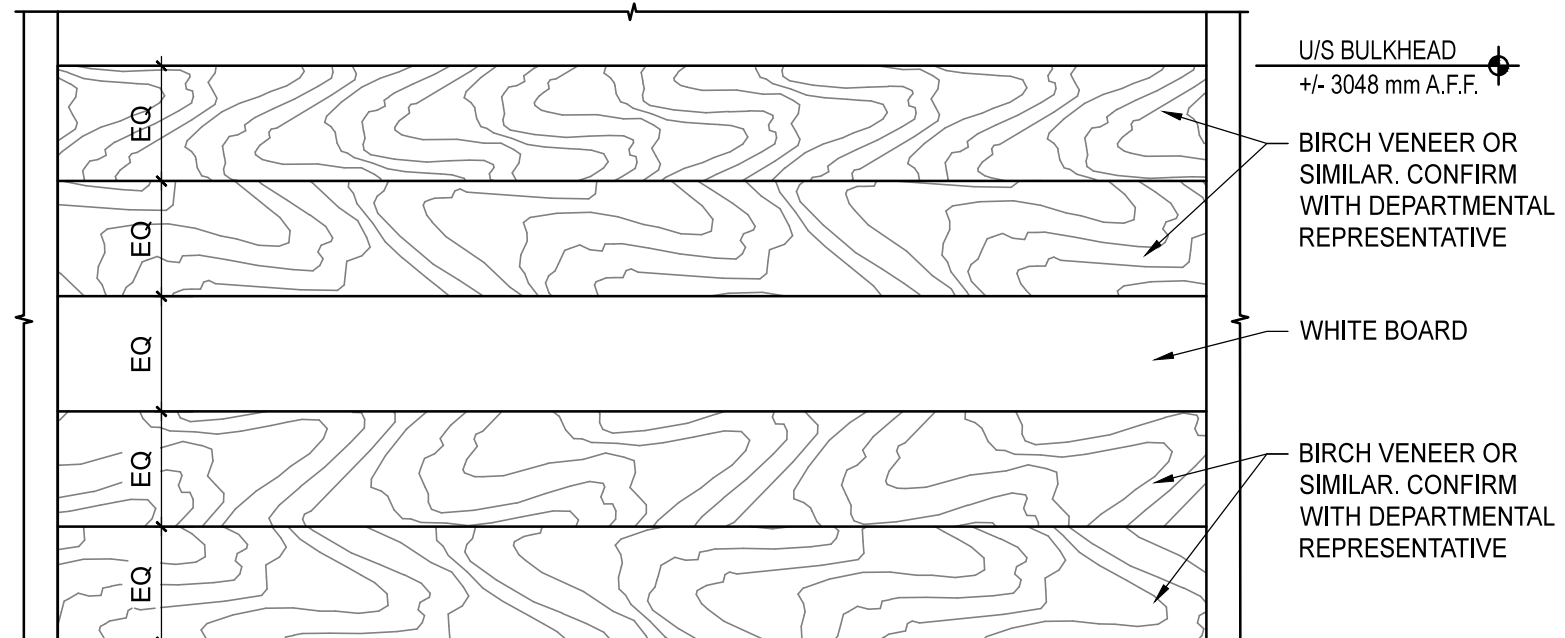
7 KITCHENETTE PLYWOOD
MECH. BOX SECTION
A8 SCALE: 1:20
NOTE: PAINT MECH. BOX TO MATCH WALL.
PROVIDE BLOCKING AS NECESSARY.



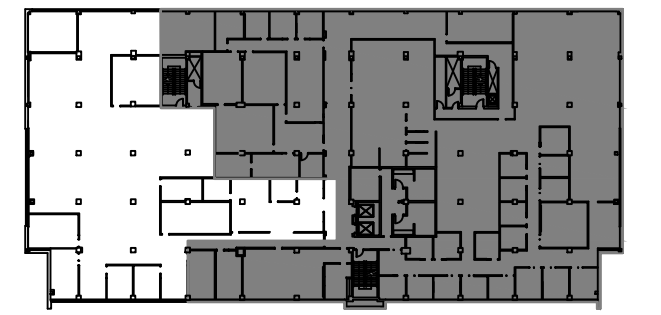
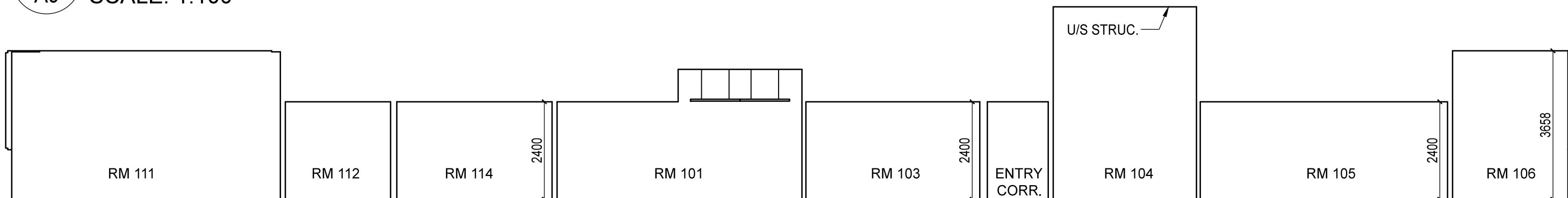
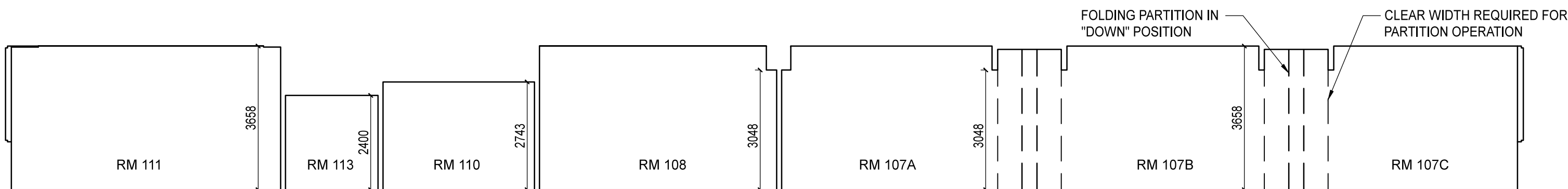
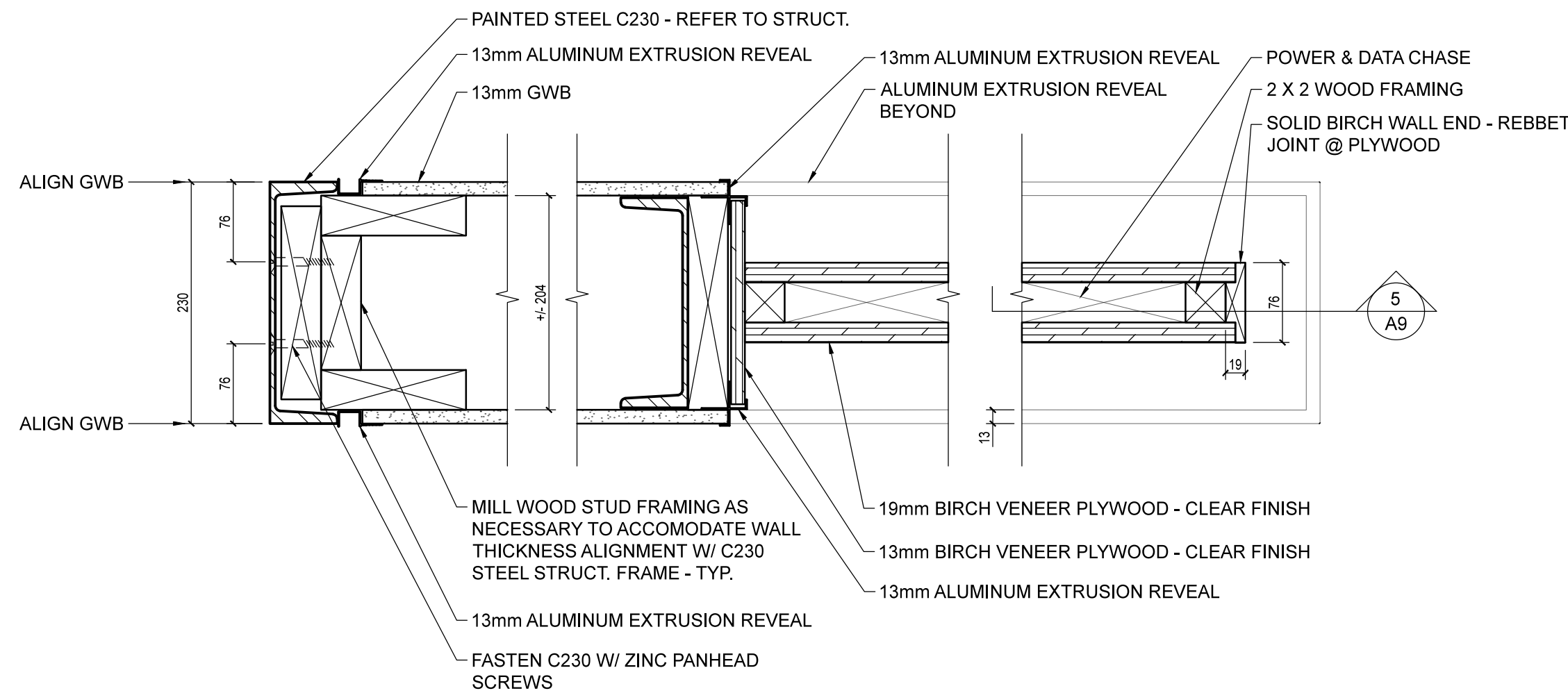
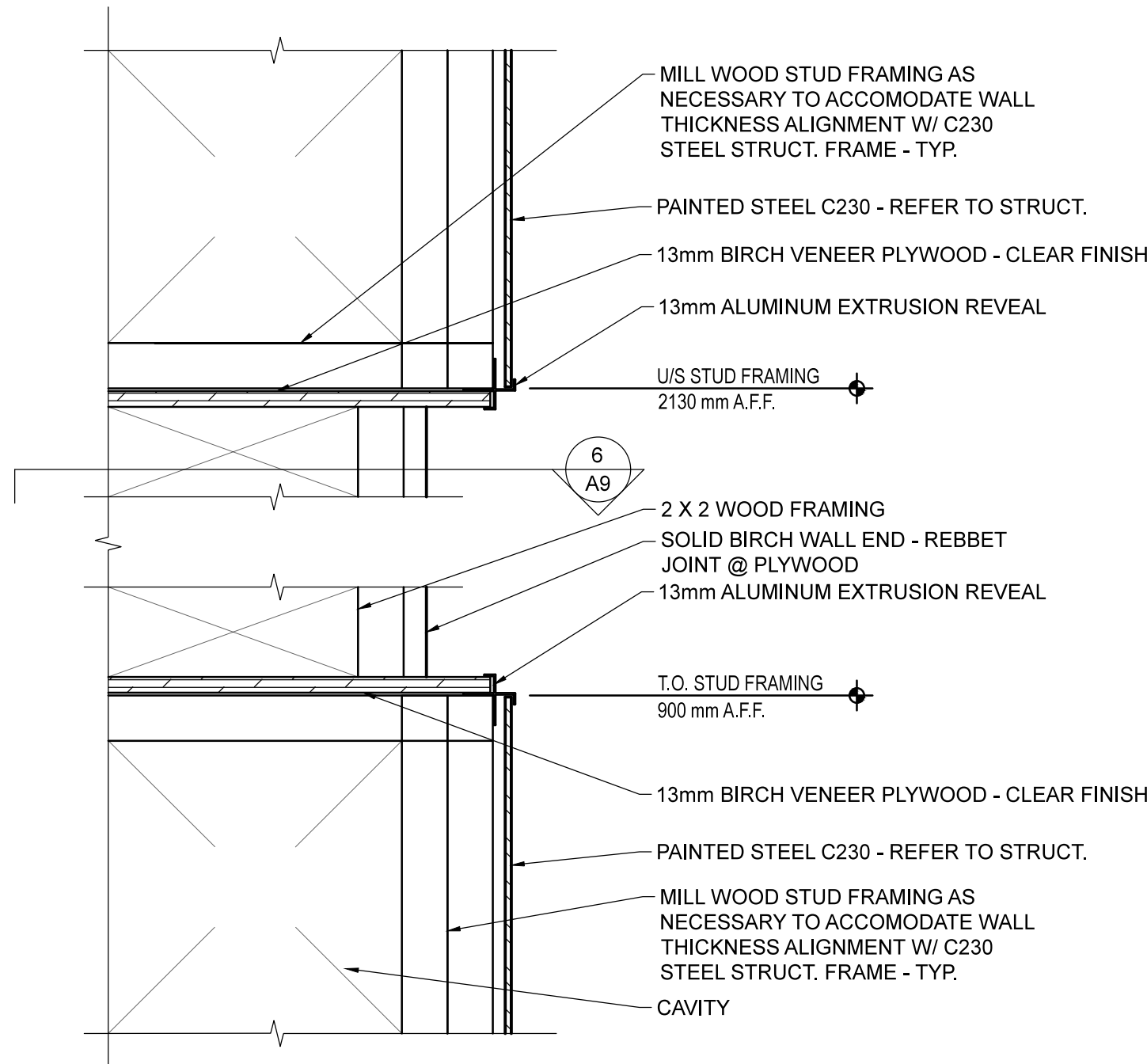
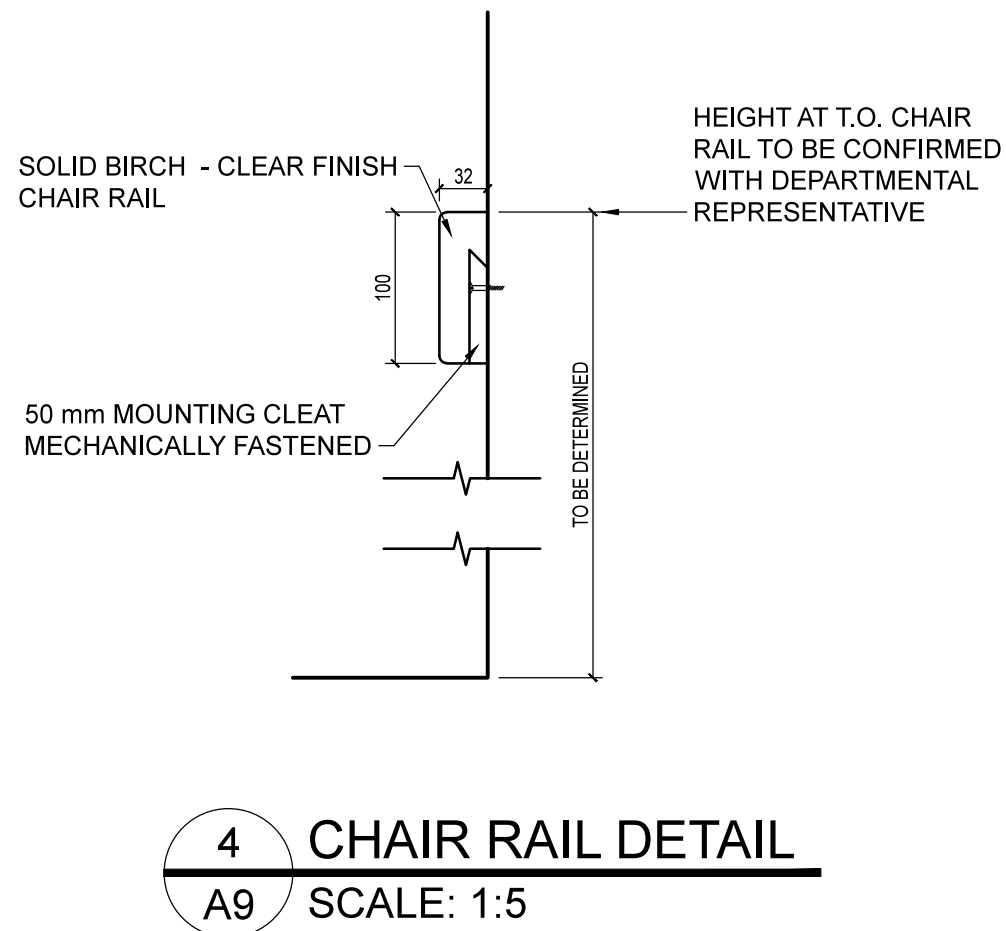
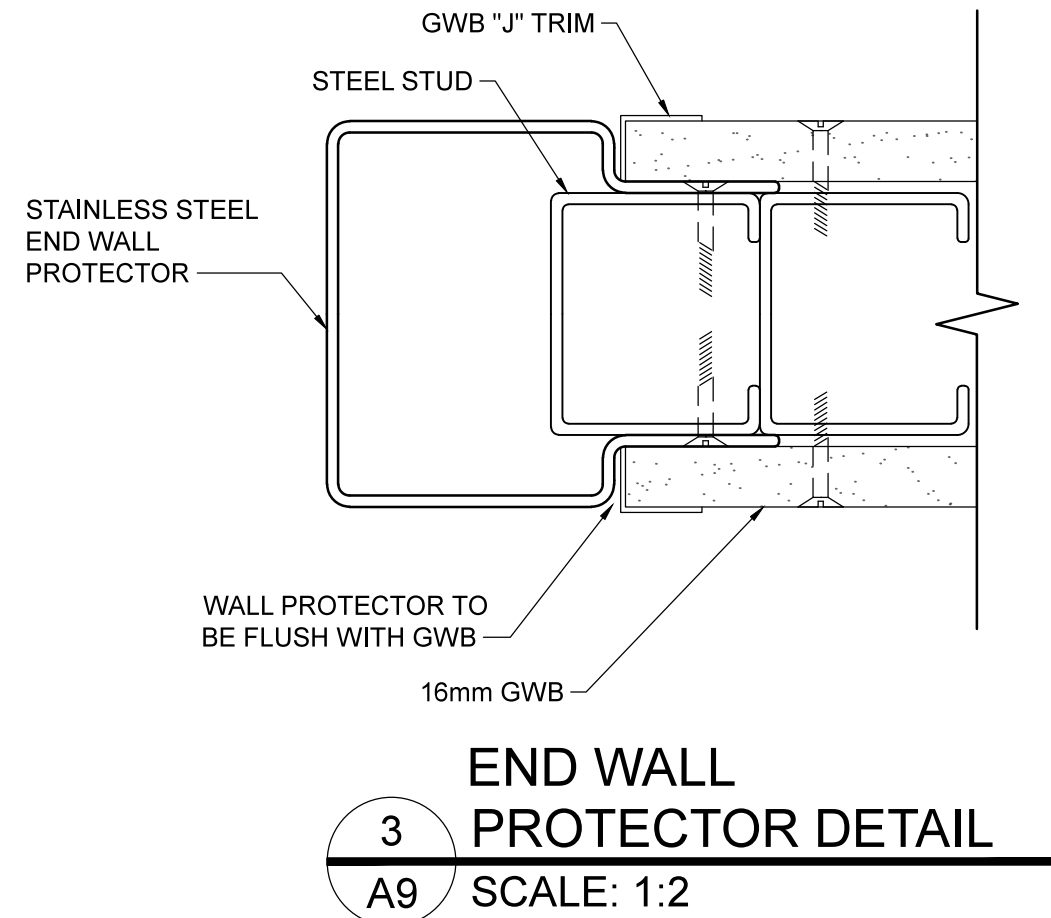
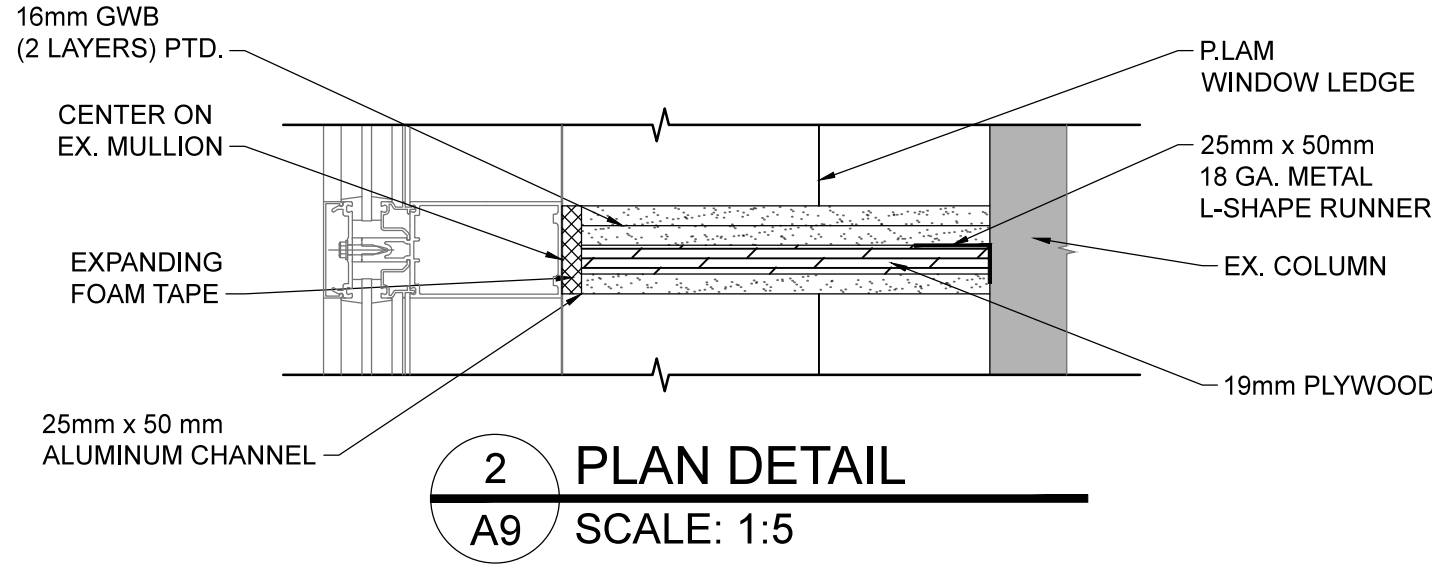
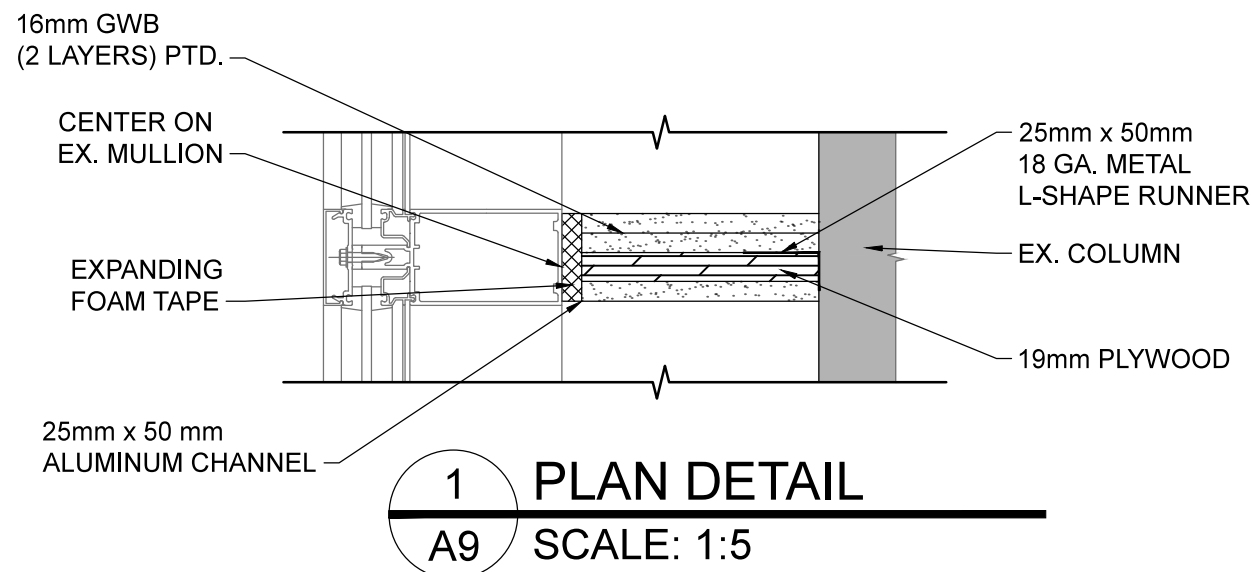
8 KITCHENETTE
MILLWORK SECTION
A8 SCALE: 1:20



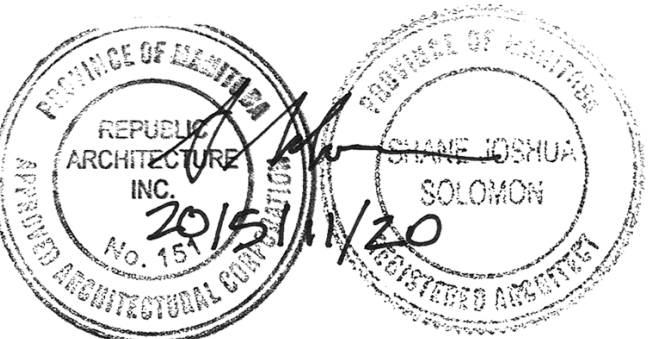
9 SHARED EQUIPMENT
MILLWORK SECTION
A8 SCALE: 1:20



10 RM 107A - FOLDING PANEL PARTITION (TYP.)
A8 SCALE: 1:40



KEY PLAN



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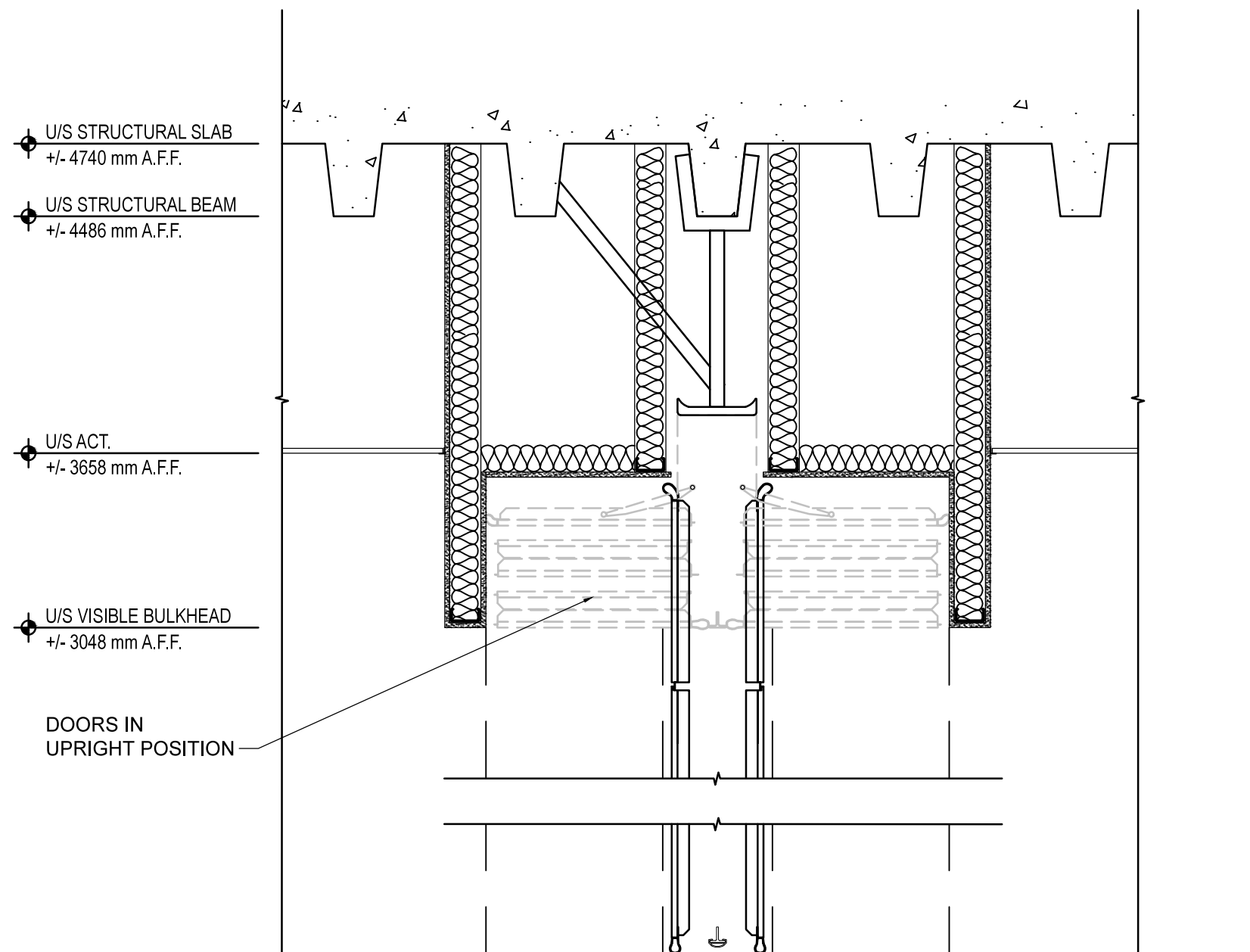
PWGSC Project Manager/Administrateur de Projets TPSCG
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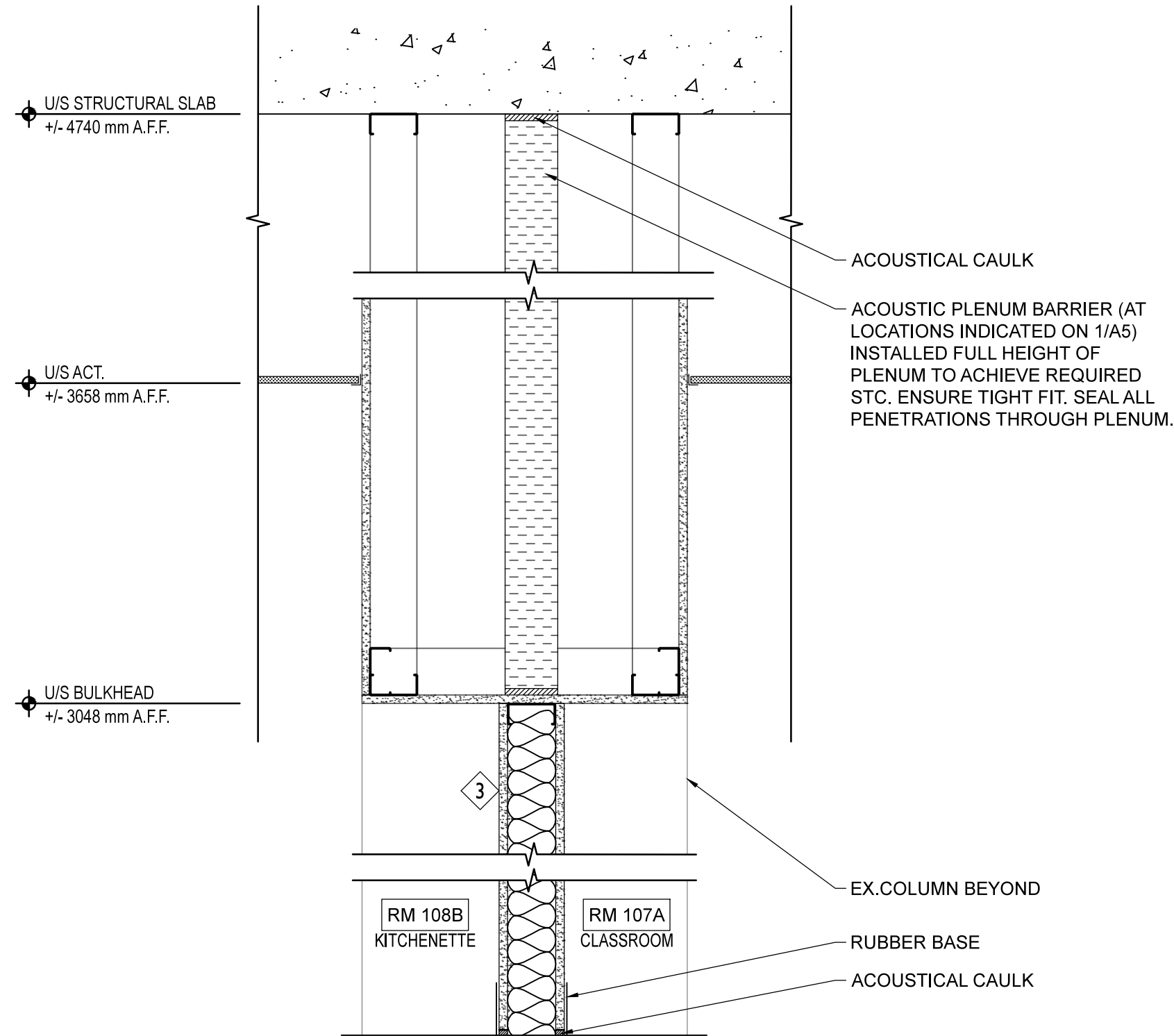
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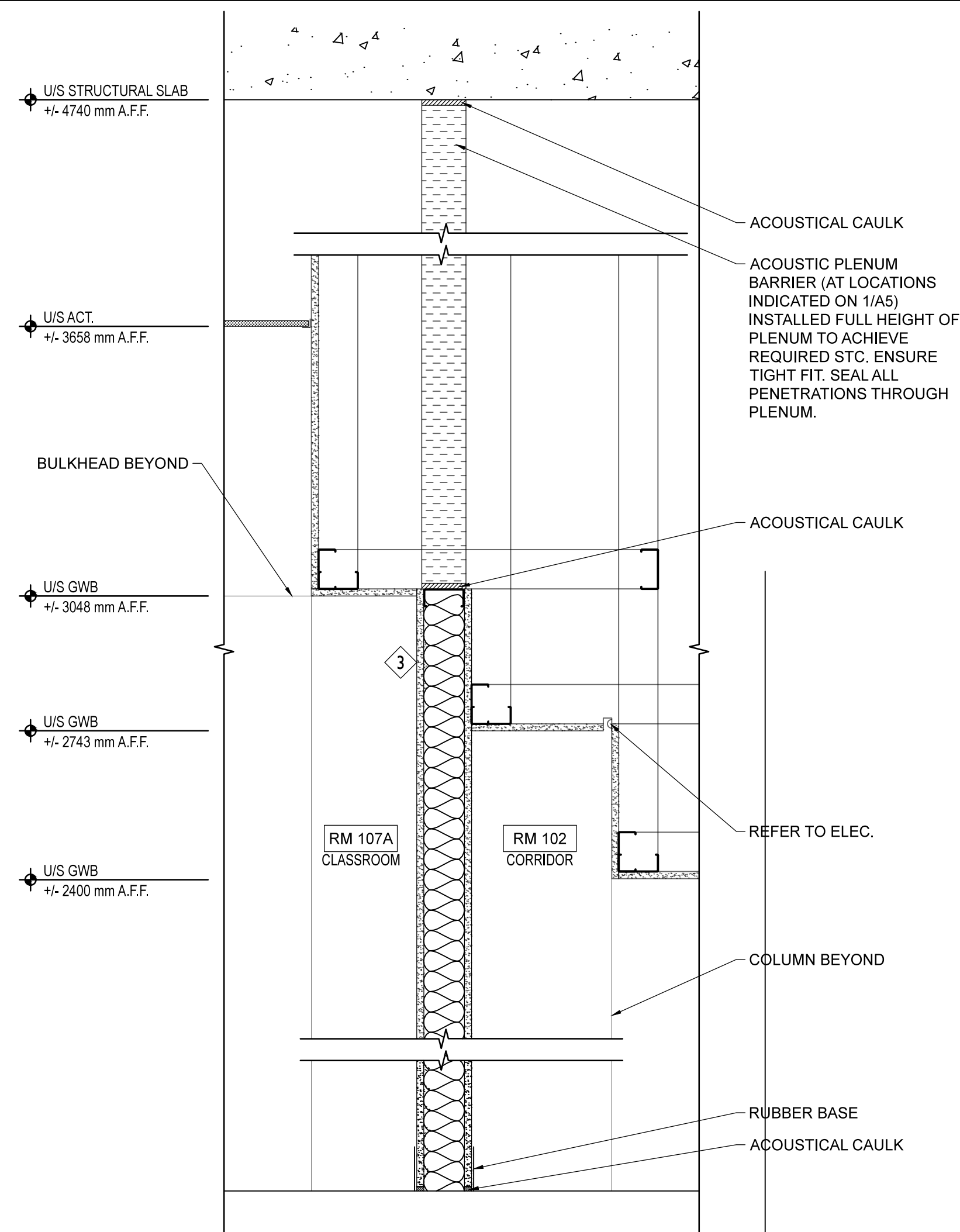
PLAN DETAILS, SECTION DETAILS
& BUILDING SECTIONS



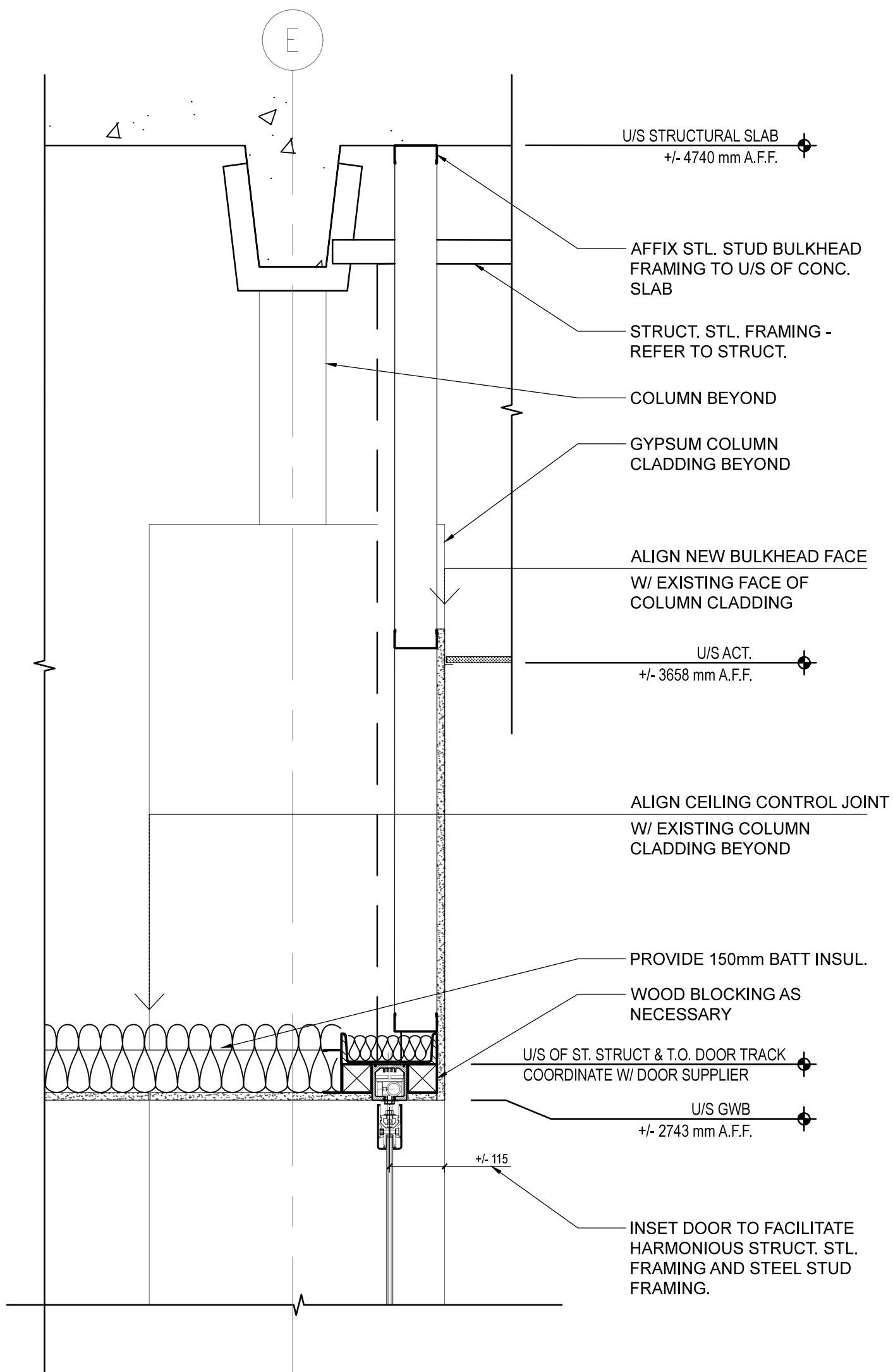
1 FOLDING PANEL PARTITION SECTION
A10 SCALE: 1:20



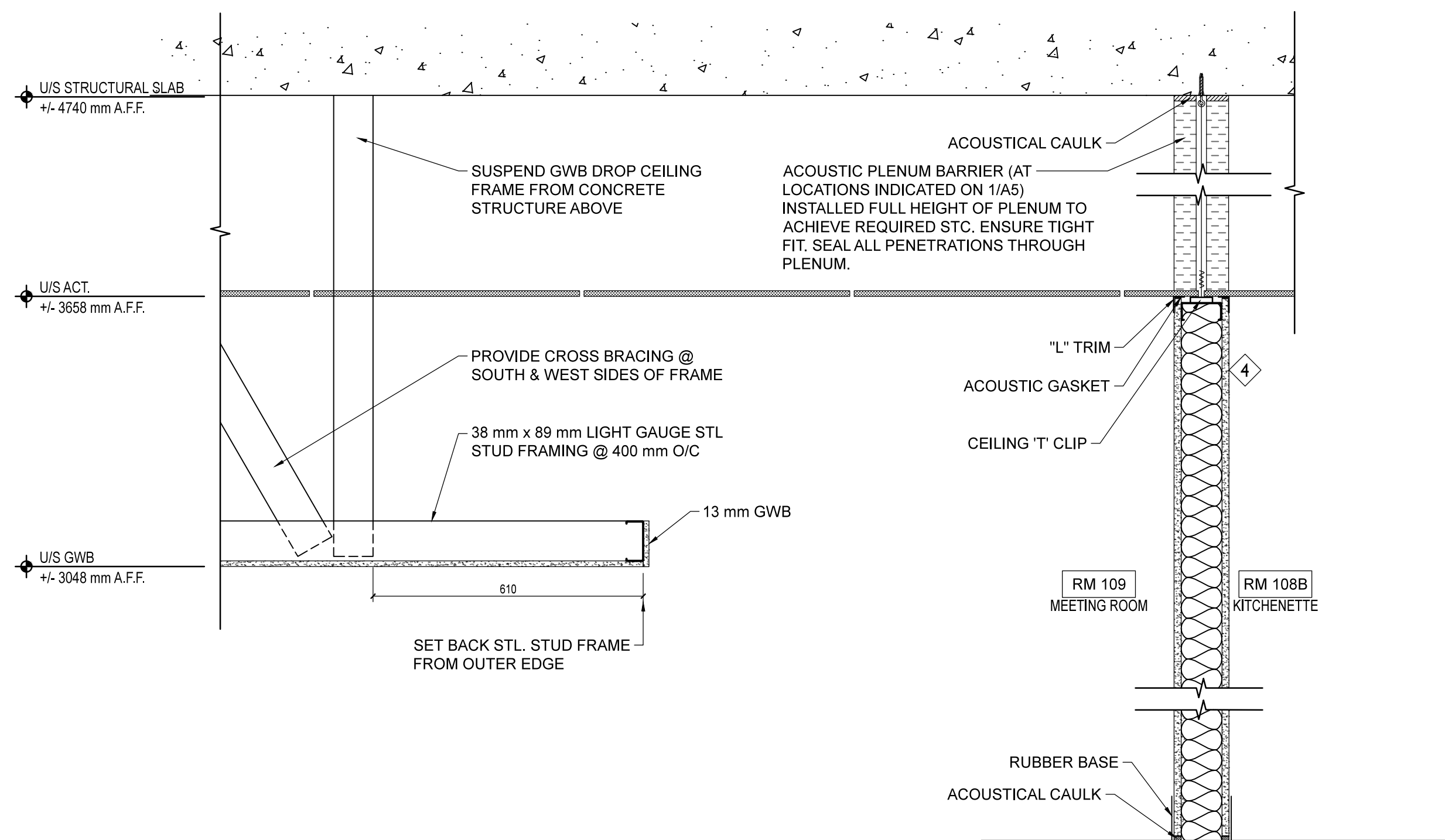
2 ACOUSTIC PLENUM BARRIER CEILING SECTION AT NEW WALL
A10 SCALE: 1:10



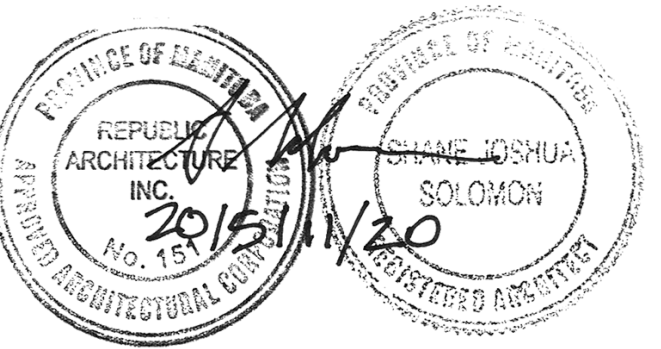
3 ACOUSTIC PLENUM BARRIER CEILING SECTION AT NEW WALL
A10 SCALE: 1:10



4 CEILING SECTION AT GLAZING SYSTEM
A10 SCALE: 1:10



5 ACOUSTIC PLENUM BARRIER CEILING SECTION AT NEW WALL
A10 SCALE: 1:10



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Drawn by/Dessiné par

HR

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JOHN ALIBIN

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Client/client

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Drawing title/Titre du dessin

CEILING SECTIONS

Project No./No. du projet

R.060508.003

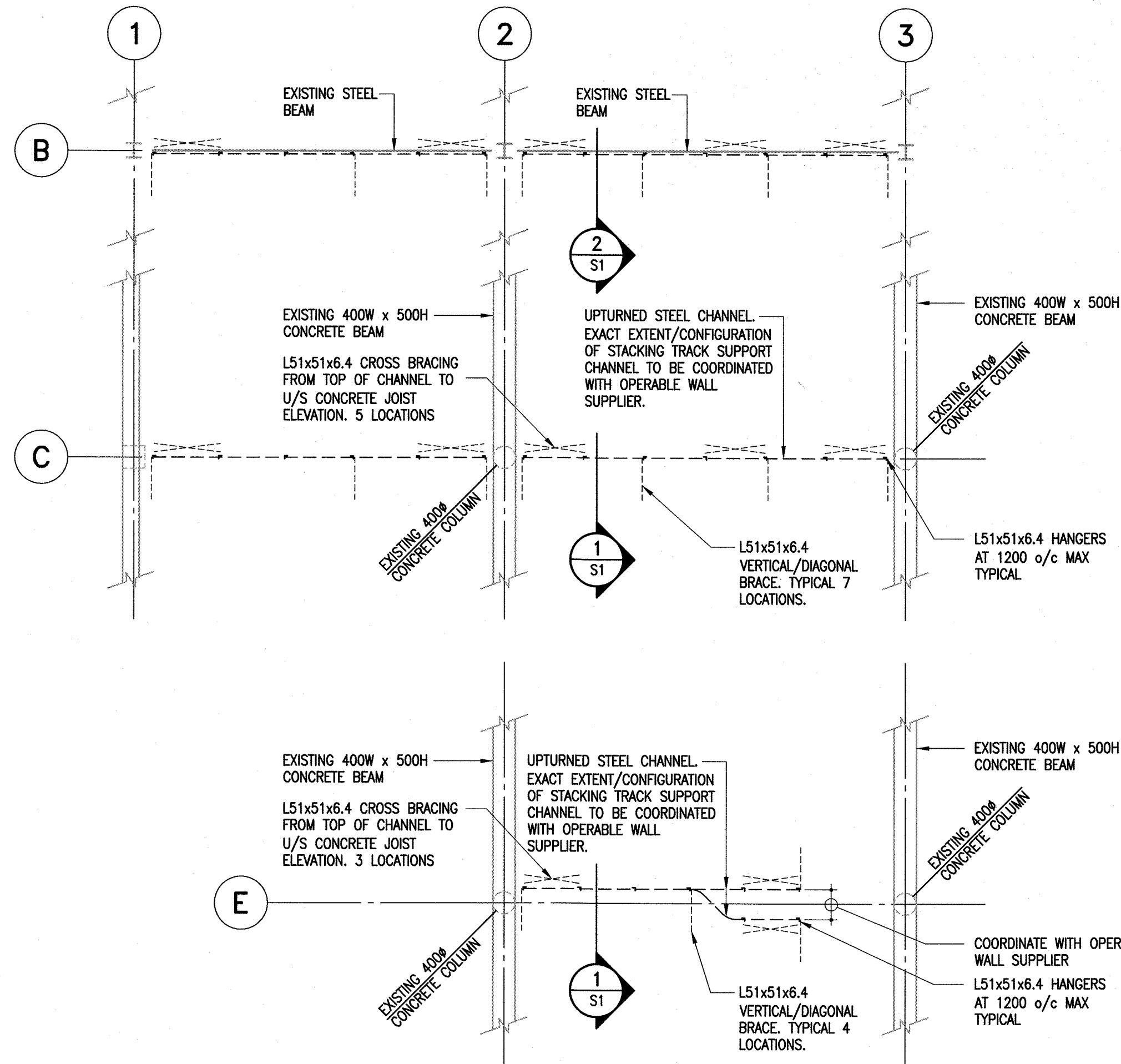
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A10

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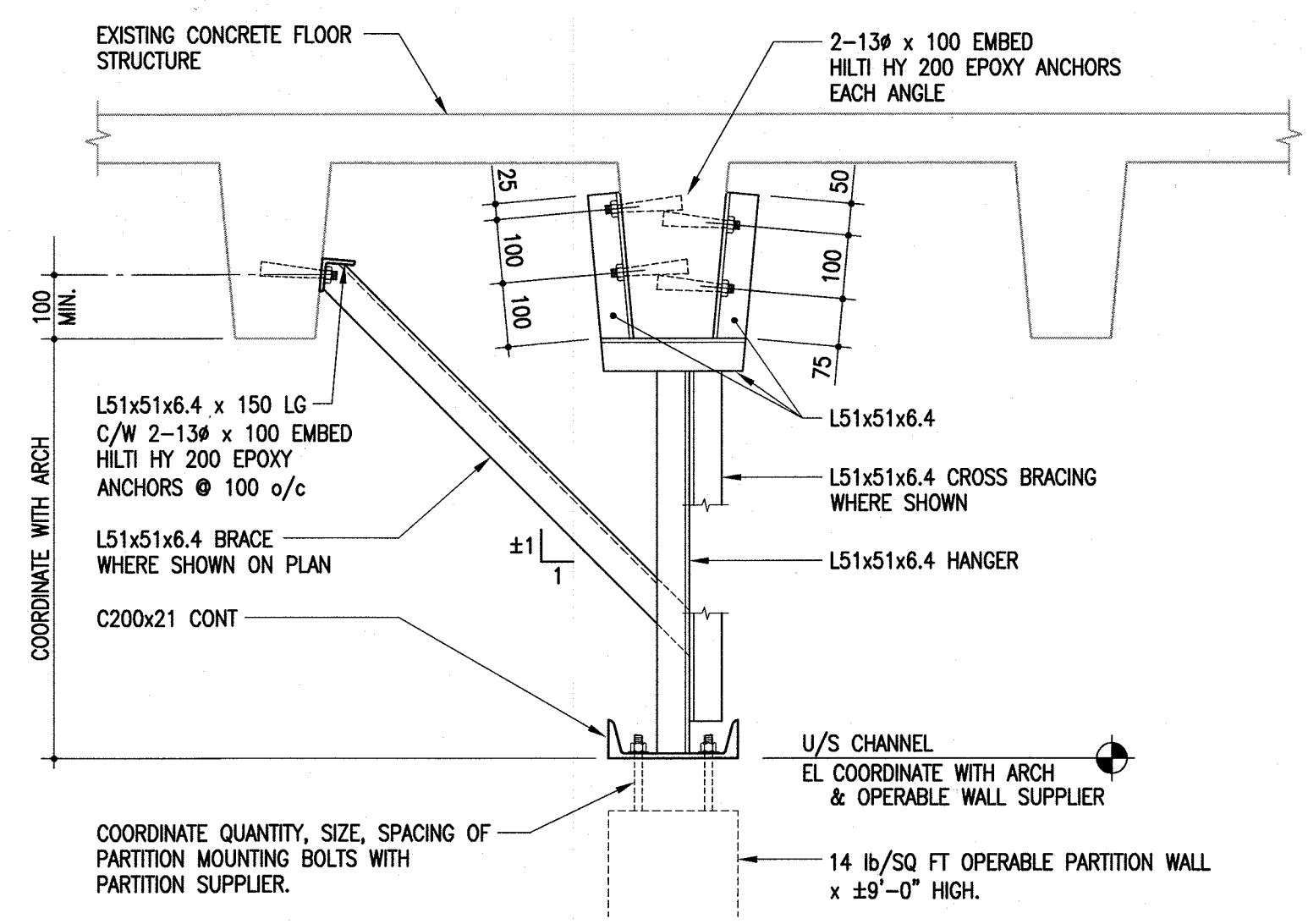
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3



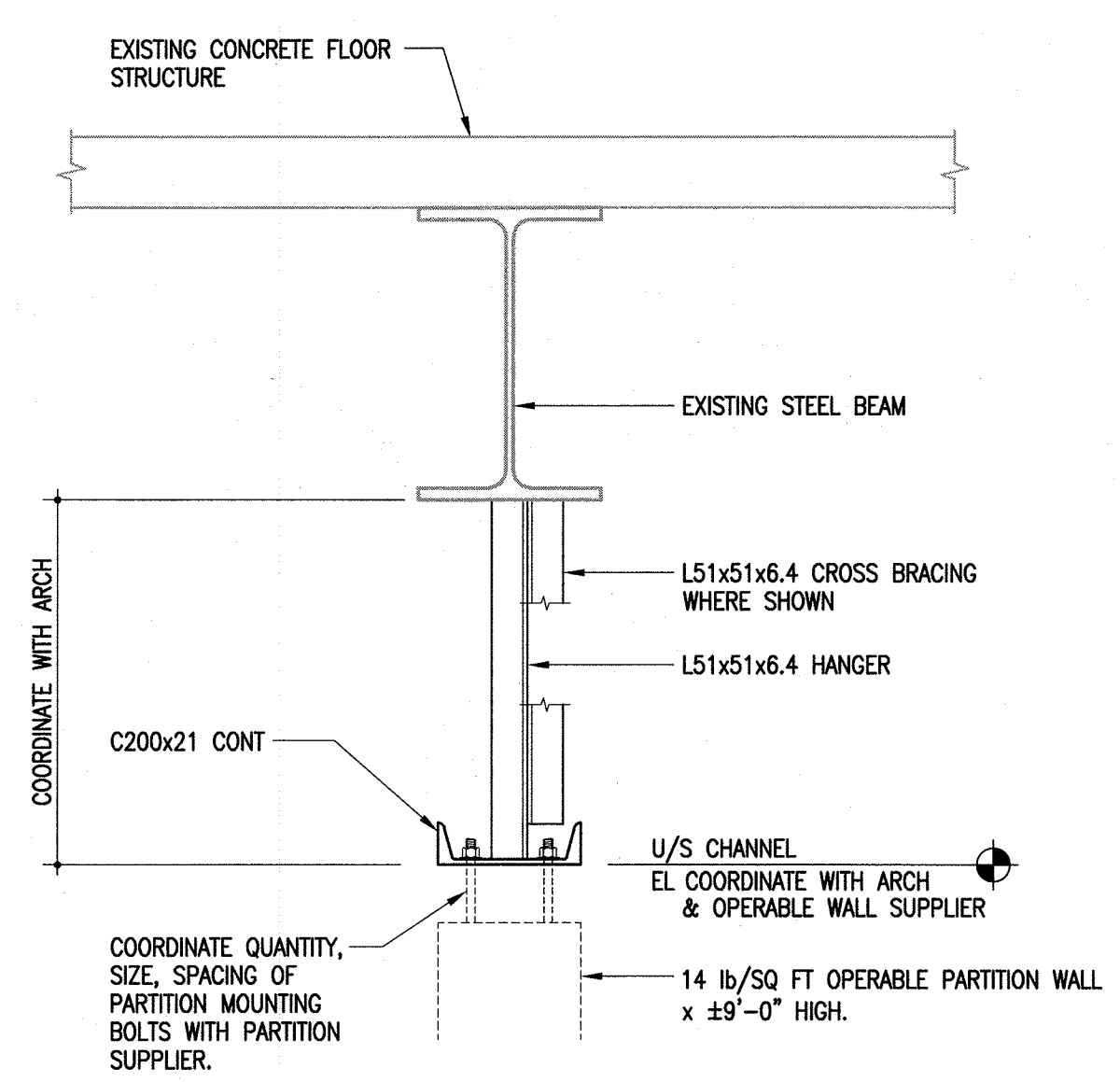
PARTIAL 3rd FLOOR FRAMING PLAN
1 : 75

- GENERAL NOTES
- STRUCTURAL DESIGN BASED ON THE MANITOBA BUILDING CODE 2011 EDITION.
 - DO NOT SCALE DRAWINGS.
 - ALL DIMENSIONS ARE TO BE VERIFIED WITH THE ARCHITECTURAL DRAWINGS AND EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
 - THESE STRUCTURAL DRAWINGS SHOW THE COMPLETED STRUCTURE AND DO NOT INDICATE ALL COMPONENTS NECESSARY FOR SAFETY DURING CONSTRUCTION. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SAFETY ON AND AROUND THE JOBSITE DURING CONSTRUCTION.

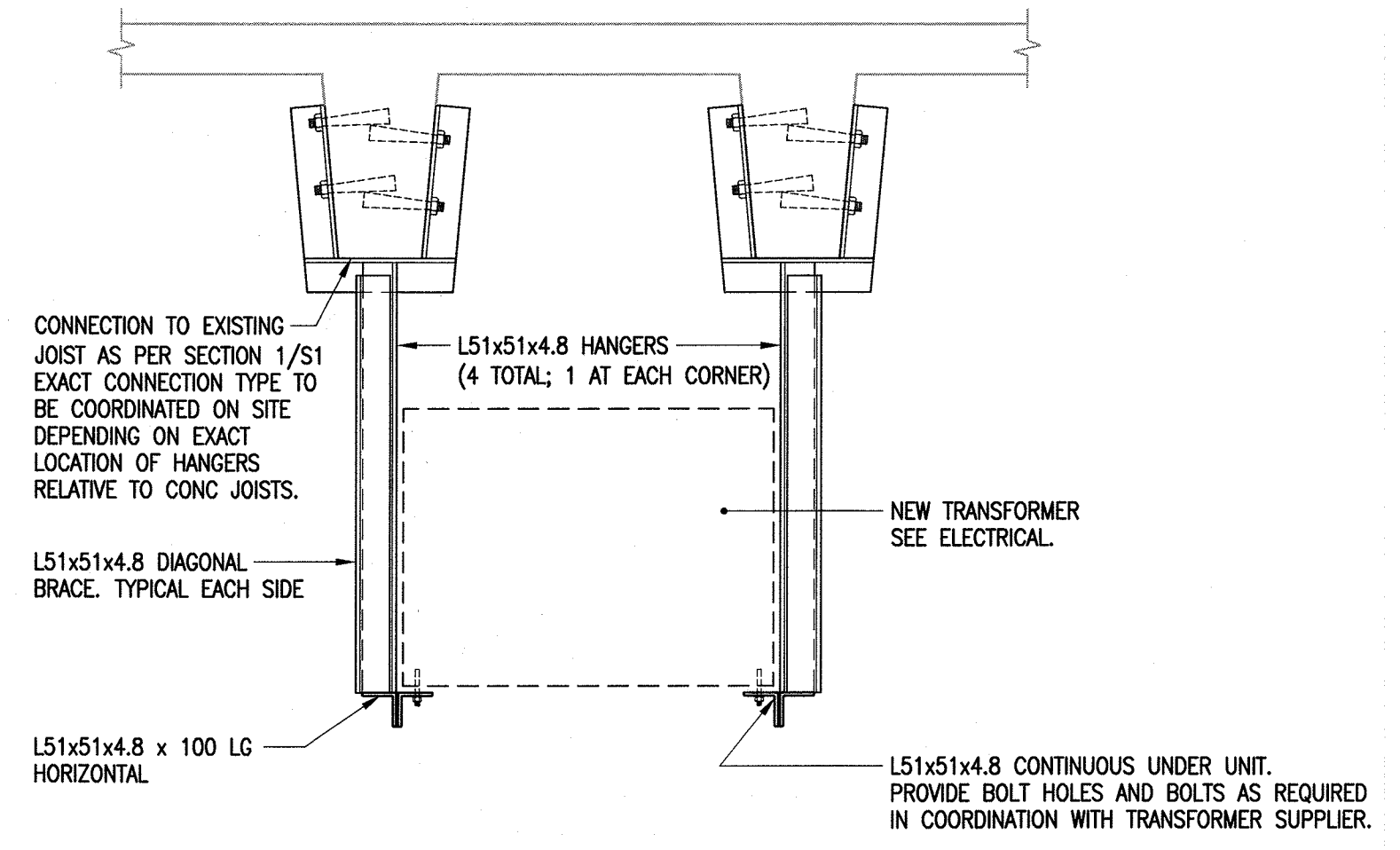


HANGERS FALL ALONG EXISTING JOISTS

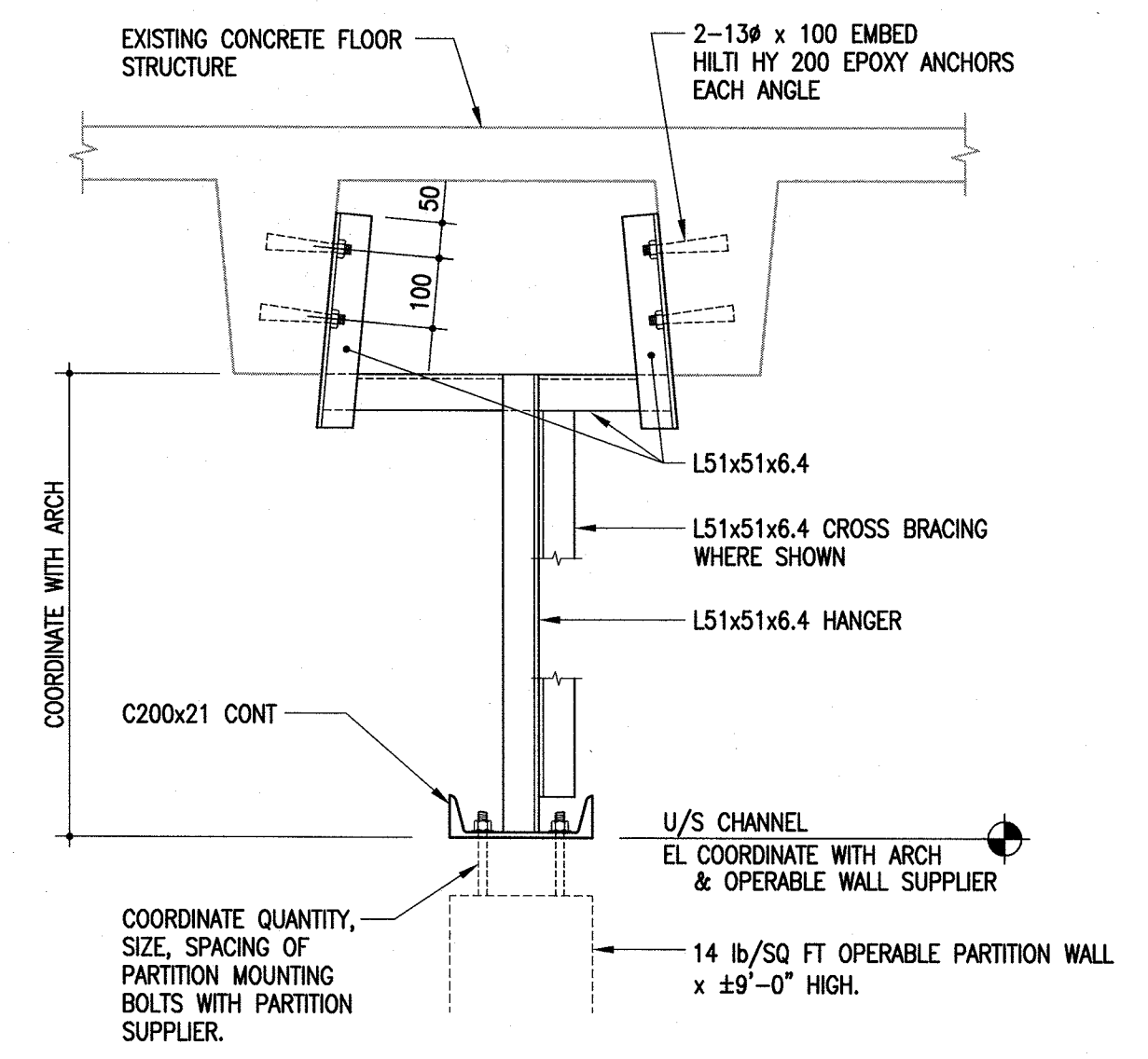
1 SECTION
S1 1 : 10



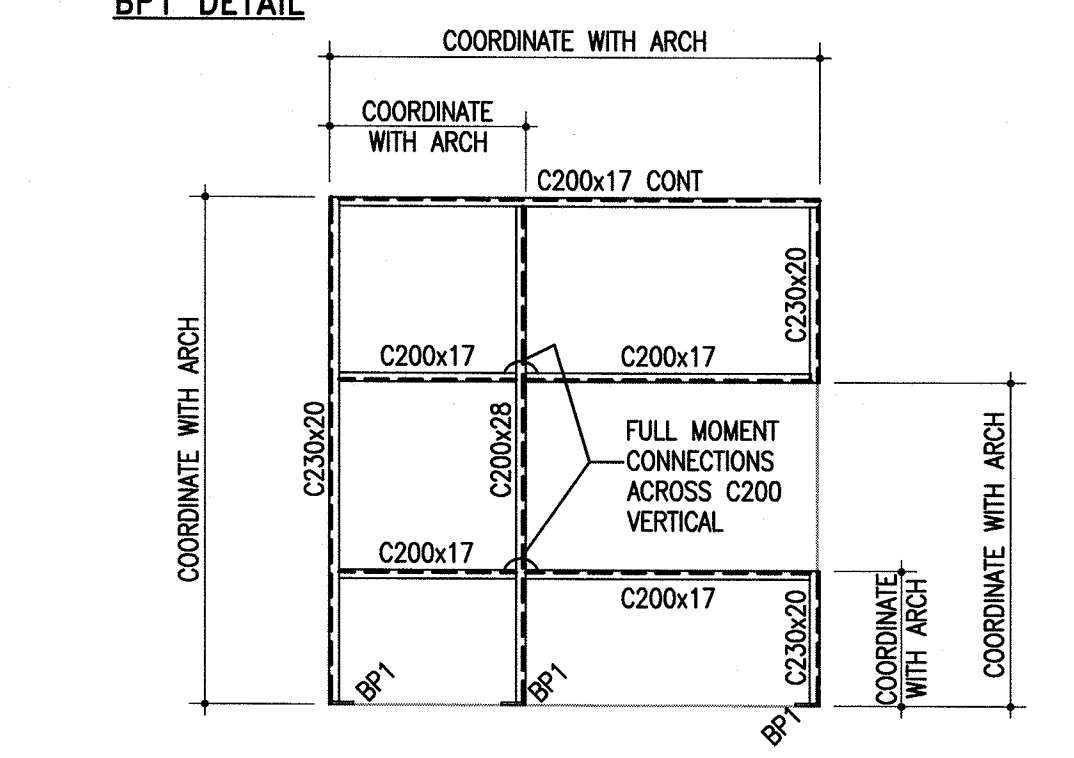
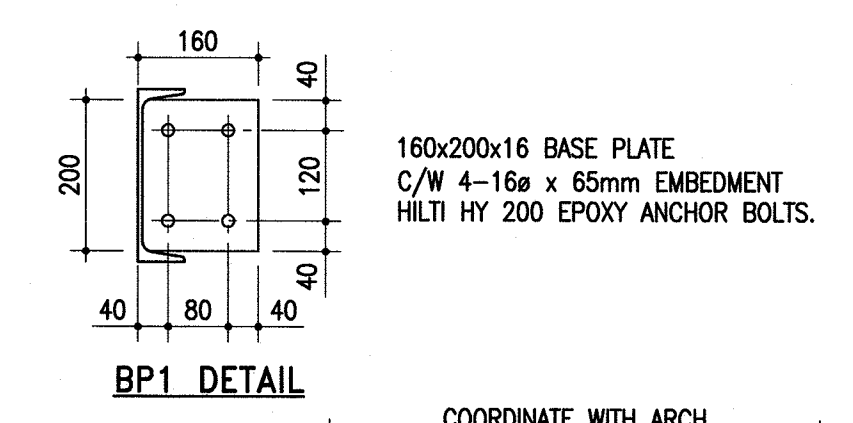
2 SECTION
S1 1 : 10



3 TRANSFORMER SUPPORT FRAMING DETAIL
S1 1 : 10
• COORDINATE EXACT LOCATION WITH ELECTRICAL.



HANGERS FALL ALONG EXISTING JOISTS



PARTIAL WALL ELEVATION RM 108A
1 : 50
• SEE ARCHITECTURAL FOR EXTENT, LOCATION, & CONFIGURATION.

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Western Region
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KEY PLAN

APEGM
Certificate of Authorization
Crosier Kilgour & Partners Ltd.
No. 235 Date: 2015-11-20

PROVINCE OF MANITOBA
T.K. MALKIEWICZ
REGISTERED PROFESSIONAL ENGINEER
No. 2015

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2015-1006
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CONSULTING STRUCTURAL ENGINEERS

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Revision/	Description/Description	Date/Date
2	ISSUED FOR CONSTRUCTION	15/11/20
1	ISSUED FOR 100% CONSTRUCTION DOCUMENTS	15/10/20
0	99% CD SUBMISSION	15/09/20

Client/client

CANADA SCHOOL OF PUBLIC SERVICE (CSPS)

Winnipeg
Manitoba

Project title/Titre du projet
2ND FLOOR - 391 YORK AVENUE WINNIPEG, MANITOBA

CSPS WINNIPEG FIT-UP

Approved by/Approuvé par
BF

Designed by/Concept par
BF

Drawn by/Dessiné par
KT

PWGSC Project Manager/Administrateur de Projets TPSGC
JOHN ALIBIN

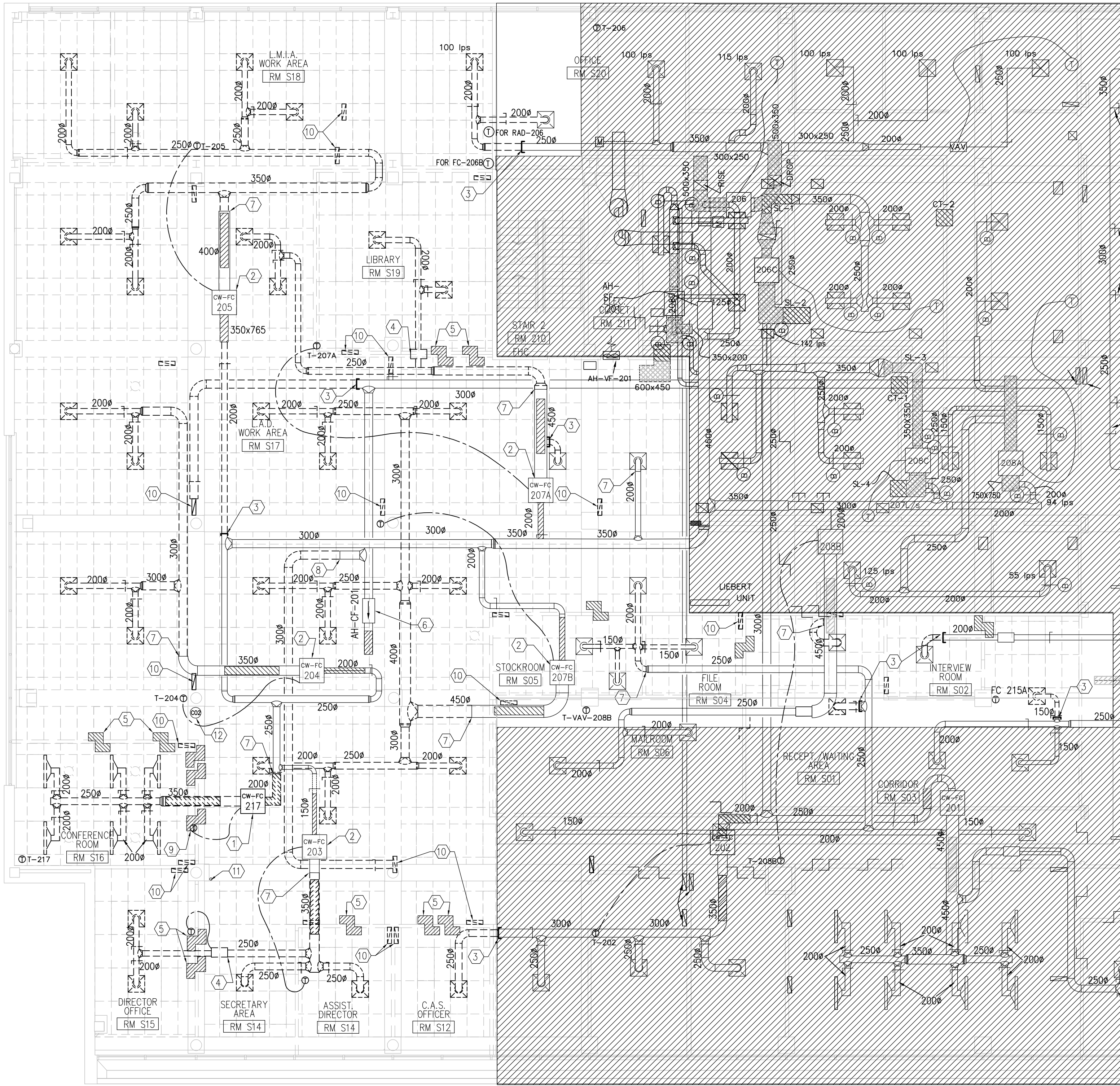
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Client/client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Drawing title/Titre du dessin
PARTIAL LEVEL 3 FRAMING PLAN SECTIONS & GENERAL NOTES

Project No./No. du projet	Sheet/Feuille	Revision no./Révision no.
R.060508.003	S1 OF 1	2

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1 EXISTING MECHANICAL LAYOUT
M1 1:100

GENERAL NOTES:

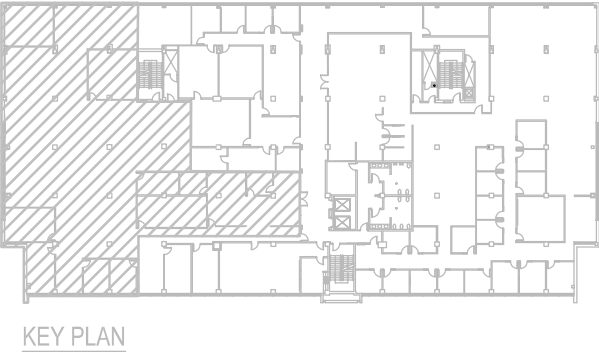
1. ALL EXISTING SUPPLY AIR DIFFUSERS TO BE RE-USED AND RELOCATED AS REQUIRED. PROVIDE NEW ADDITIONS AS SHOWN ON DRAWING M2.
2. ALL EXISTING RETURN AIR GRILLE TO BE RE-USED AND RELOCATED AS REQUIRED. PROVIDE NEW ADDITIONS TO MATCH EXISTING AS SHOWN ON DRAWING M2.
3. ALLOW FOR TEMPORARY REMOVAL OF ALL WALL MOUNTED CONTROLS AND RE-INSTALLATION WHERE REQUIRED FOR ARCHITECTURAL WORK. EXTEND WIRING WHEN REQUIRED. REFER TO ARCHITECTURAL DRAWINGS.
4. REMOVE ABANDONED SERVICES OVER POCKET FOR MOVABLE PANEL PARTITION. RELOCATE ANY ACTIVE SERVICES. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS.
5. ALLOW FOR REMOVAL OF ABANDONED SERVICES IN AREA OF RENOVATION.

DRAWING KEYNOTES:

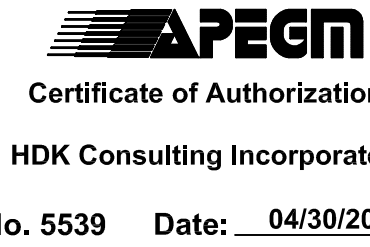
- 1 EXISTING FANCOIL UNIT TO BE RELOCATED. REFER TO DRAWING M2 FOR NEW LOCATION AND DUCT ROUTING.
- 2 EXISTING FANCOIL UNIT TO REMAIN. REFER TO DRAWING M2 FOR NEW LOCATION.
- 3 CAP-OFF EXISTING DUCT APPROXIMATELY THIS LOCATION AND REMOVE ASSOCIATED DUCTING.
- 4 EXISTING VAV TO BE REMOVED.
- 5 EXISTING TRANSFER AIR DUCT TO BE REMOVED AND RE-USED. TYPICAL.
- 6 EXISTING TRANSFER AIR FAN TO REMAIN.
- 7 DEMOLISH BACK TO THIS LOCATION AND PREPARE FOR NEW DUCTWORK CONNECTION.
- 8 PROVIDE BALANCING DAMPER AT THIS LOCATION. REMOVE ASSOCIATED DUCT UP TO THIS POINT.
- 9 EXISTING THERMOSTAT TO BE RELOCATED. REFER TO DRAWING M2 FOR NEW LOCATION.
- 10 EXISTING RETURN AIR GRILLE TO BE DEMOLISHED. TYPICAL.
- 11 EXISTING CONDENSATE DRAIN TO REMAIN.
- 12 EXISTING CO2 SENSOR TO BE RELOCATED.

DRAWING LEGEND

	BALANCING DAMPER
	FIRE DAMPER
	BACKDRAFT DAMPER
	EQUIPMENT TAG
	THERMOSTAT
	SPEED CONTROLLER
	DESIGNATION NECK SIZE (SUPPLY) FACE SIZE (RETURN/EXHAUST) MAX. AIRFLOW (L/s)
	NEW DUCT
	DUCT WITH ACOUSTIC LINING
	EXISTING DUCT
	EXISTING DUCT TO BE REMOVED



KEY PLAN



DO NOT SCALE DRAWINGS

Revision	Description/Description	Date/Date
3	ISSUED FOR CONSTRUCTION	15/11/20
2	100% CD SUBMISSION	15/10/29
1	99% CD SUBMISSION	15/09/28
0	50% CD SUBMISSION	15/08/14

Client/client

CANADA SCHOOL OF PUBLIC SERVICES (CSPS)

Winnipeg
Manitoba

Project title/Titre du projet
STANLEY KNOWLES BUILDING
2ND FLOOR - 391 YORK AVENUE
WINNIPEG, MANITOBA

CSPS WINNIPEG FIT-UP

Approved by/Approuvé par
DAVID HO

Designed by/Concept par
ROBIN ROQUE

Drawn by/Dessiné par
IVY SANTOS

PWSC Project Manager/Administrateur de Projets TPSC
JOHN ALBIN

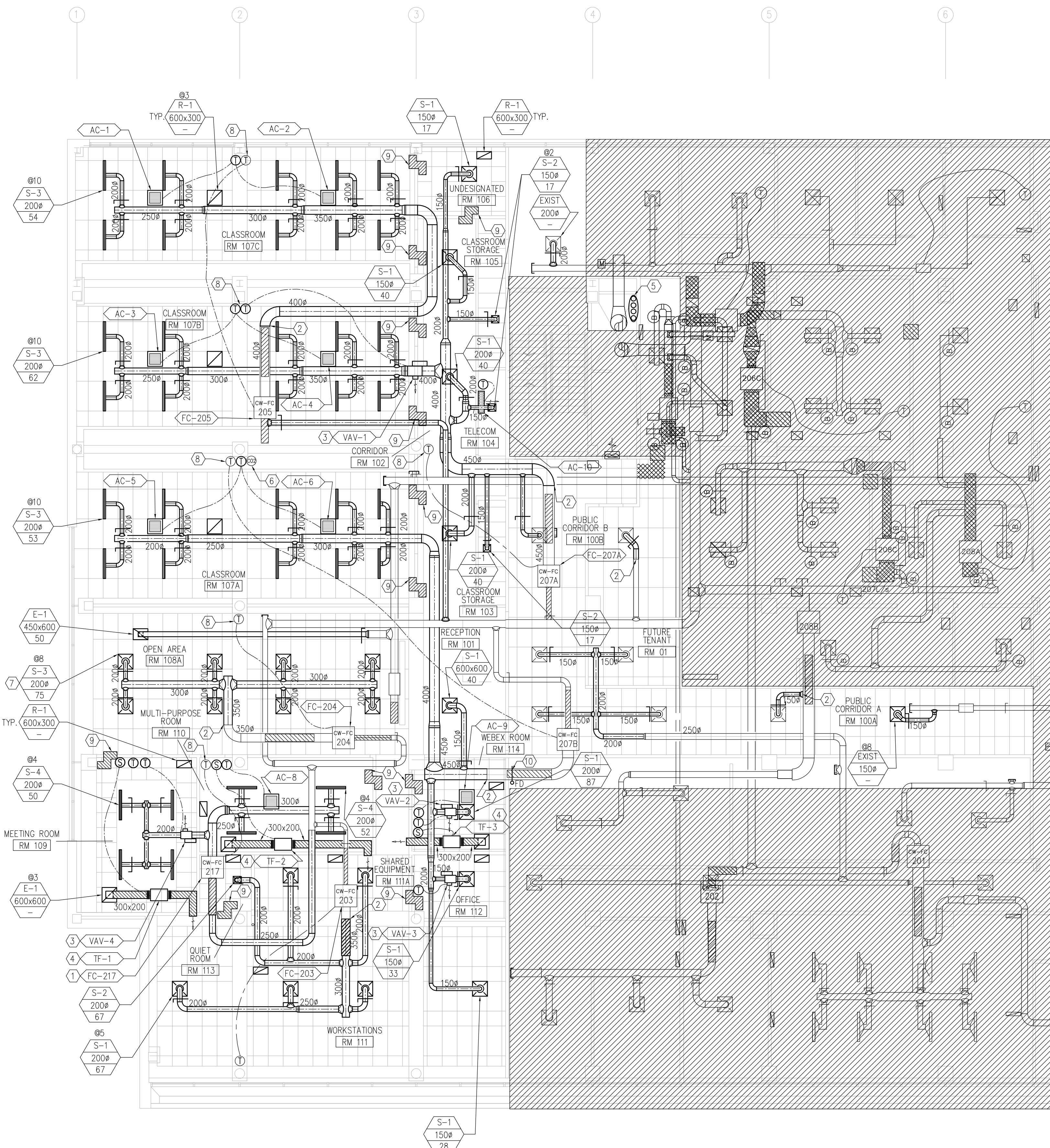
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Ressources Architectural et de Directeur d'ingénierie, TPSC

Client/client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Drawing title/Titre du dessin

EXISTING/DEMOLITION
MECHANICAL LAYOUT





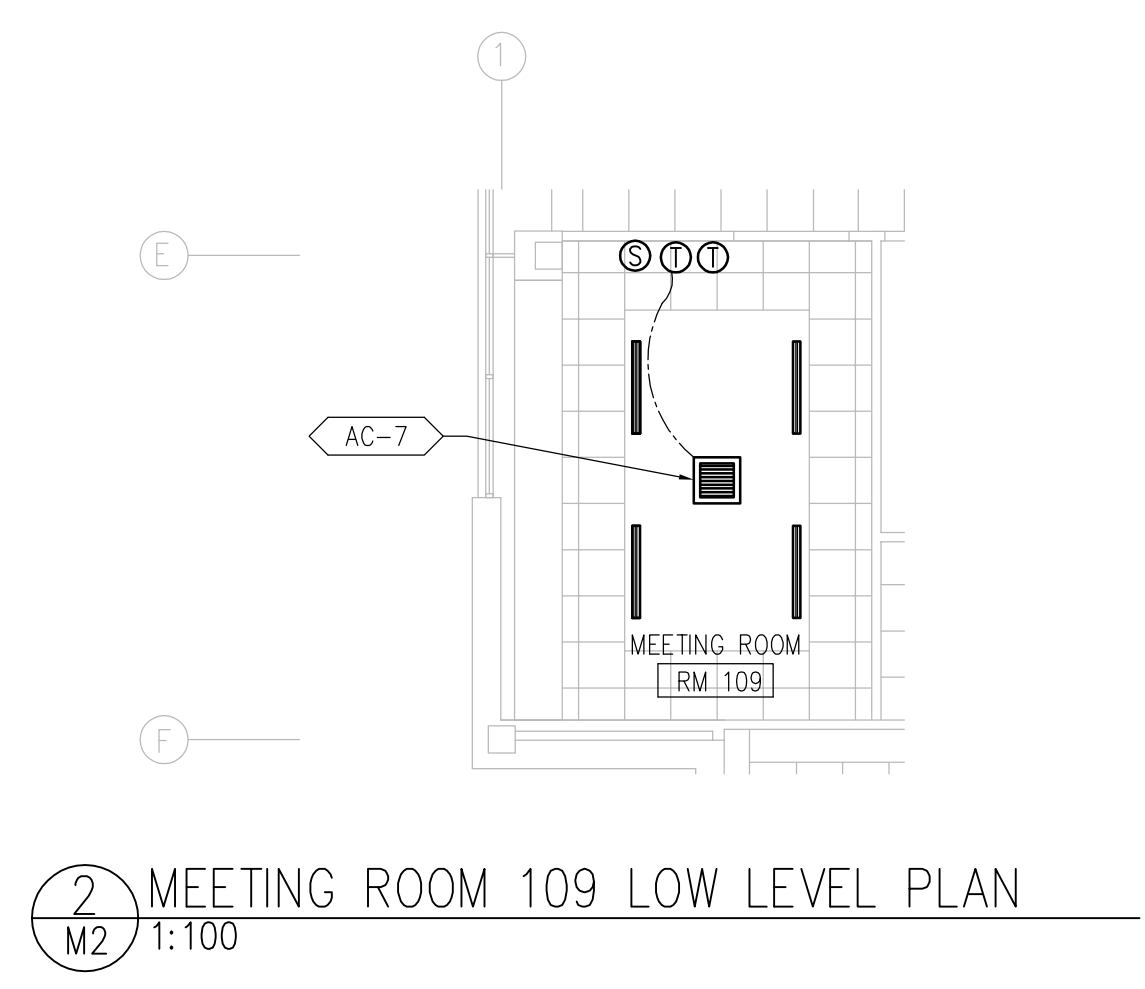
1 NEW CONSTRUCTION MECHANICAL LAYOUT
M2 1:100

GENERAL NOTES:

- WHERE CEILING HEIGHTS ARE CHANGED, RELOCATE ALL SERVICES AND EQUIPMENT TO SUIT ADJUSTED CEILING HEIGHT. REFER TO ARCHITECTURAL DRAWINGS.
- ALLOW FOR OFFSETS IN DUCTWORK TO ACCOMMODATE EXISTING SERVICES. ROUTING IS APPROXIMATE.
- COORDINATE ALL NEW THERMOSTAT AND SENSOR LOCATIONS WITH ARCHITECTURAL.
- RELOCATE EXISTING SERVICES OVER POCKET FOR MOVABLE PANEL PARTITION.

DRAWING KEYNOTES:

- NEW LOCATION OF FAN COIL UNIT CW-FC-217. COORDINATE NEW AND EXISTING STRUCTURE TO SUIT NEW INSTALLATION. PROVIDE NEW OUTSIDE AIR CONNECTION AS SHOWN. EXTEND ALL HYDRONIC PIPING, CONDENSATE PIPING, ELECTRICAL AND CONTROLS SERVICE AS REQUIRED.
- CONNECT NEW SUPPLY AIR DIFFUSER TO EXISTING STRUCTURE TO SUIT NEW INSTALLATION.
- NEW VAV WITH BY-PASS TERMINAL BOX.
- NEW TRANSFER FAN C/W SPEED CONTROLLER.
- LIQUID AND GAS REFRIGERANT PIPES TO ROOF THROUGH MECHANICAL SHAFT. REFER TO TO DRAWING 1/M4. OFFSET PIPING AS REQUIRED.
- RELOCATED CO2 SENSOR. COORDINATE NEW, EXISTING SERVICES AND STRUCTURES TO SUIT NEW INSTALLATION. CONFIRM EXISTING LOCATION ON SITE.
- SQUARE CONE DIFFUSER IN PRIMER FINISH TO BE PAINTED BLACK.
- NEW LOCATION FOR THERMOSTAT.
- NEW LOCATION FOR TRANSFER AIR DUCT.
- PROVIDE NEW 1-HR FIRE DAMPER.



2 MEETING ROOM 109 LOW LEVEL PLAN
M2 1:100

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Member
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REGISTERED PROFESSIONAL ENGINEER

Certificate of Authorization
HDK Consulting Incorporated
No. 5539 Date: 04/30/2016

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Client/client
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Winnipeg
Manitoba

Project title/Titre du projet
**STANLEY KNOWLES BUILDING
2ND FLOOR - 391 YORK AVENUE
WINNIPEG, MANITOBA**

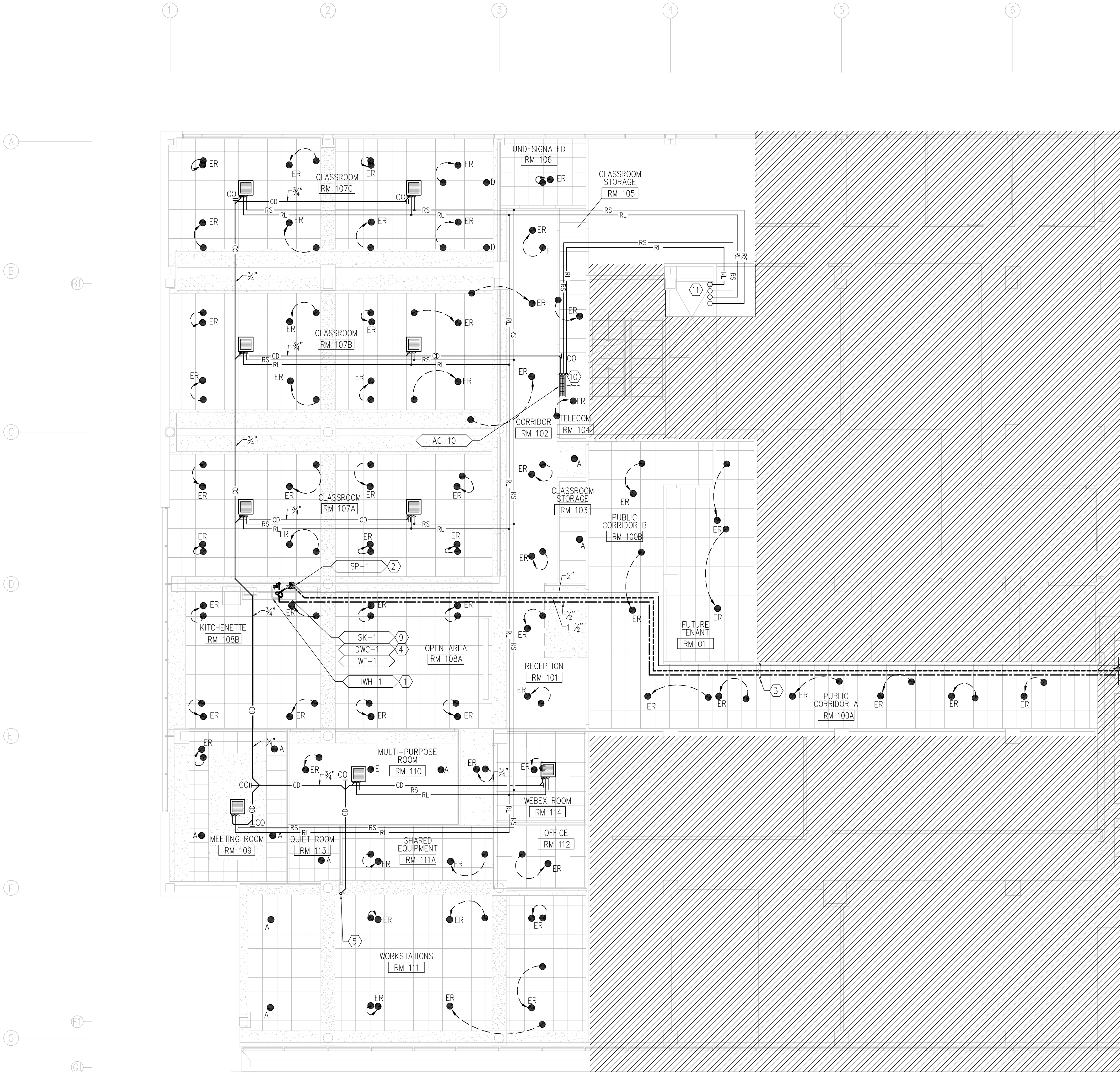
CSPS WINNIPEG FIT-UP

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PWGSC Project Manager/Administrateur de Projets TPSGC
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Ressources Architectural et de Directeur d'ingénierie, TPSGC
Client/client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA
Drawing title/Titre du dessin

**NEW CONSTRUCTION
MECHANICAL LAYOUT**

Project No./No. du projet
R.060508.003
Sheet/Feuille
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OF 5
Revision no./
La Révision
no.
3

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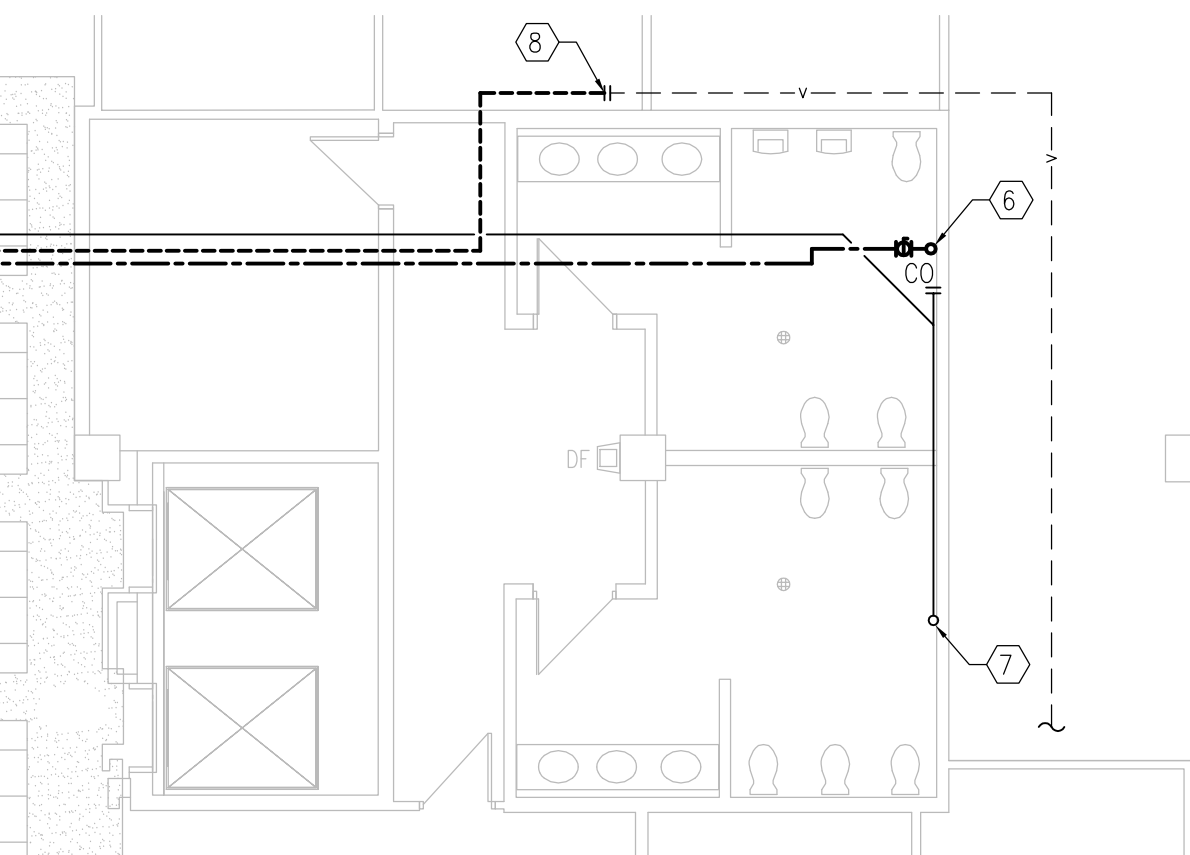
1 SPRINKLER SYSTEM AND PLUMBING LAYOUT
M3 1:100

SPRINKLER DRAWING GENERAL NOTES:

1. SPRINKLER SYSTEM INSTALLATION SHALL STRICTLY CONFORM WITH NFPA 13 AND ALL AUTHORITIES HAVING JURISDICTION.
2. ALL PIPE LOCATIONS TO BE MEASURED ON SITE BY THE FIRE PROTECTION CONTRACTOR PRIOR TO FABRICATION AND INSTALLATION.
3. ALL DIMENSIONS SHOWN ARE CENTER TO CENTER.
4. SPRINKLER MAINS, BRANCHLINES ROUTING AND FINAL LOCATIONS AND HEIGHT OF SPRINKLER HEADS TO BE COORDINATED TO THE EXISTING LOCATIONS OF MECHANICAL EQUIPMENTS AND ROUTING OF DUCTS BY THE FIRE PROTECTION CONTRACTOR.
5. WHERE CEILING HEIGHTS ARE CHANGED, RELOCATE ALL SERVICES AND EQUIPMENT TO SUIT ADJUSTED CEILING HEIGHT. REFER TO ARCHITECTURAL DRAWINGS.
6. RELOCATE EXISTING SERVICES OVER POCKET FOR MOVABLE PANEL PARTITION.
7. REFER TO DRAWING M-4 FOR REFRIGERANT LINE SIZING.

DRAWING KEYNOTES:

1. PIPE 1/2" DCW TO NEW INSTANTANEOUS WATER HEATER. PROVIDE REDUCER FITTING AS REQUIRED. REFER TO SPECIFICATION FOR MORE INFORMATION OF INSTANTANEOUS WATER HEATER.
2. PIPE 1 1/2" SINK DRAIN TO NEW SEWAGE PUMP. PIPE SEWAGE PUMP DISCHARGE AND VENT UP THROUGH WALL AND RUN IN CEILING SPACE. TIE-IN TO NEAREST AND SUITABLE EXISTING SANITARY DRAIN AND VENT RESPECTIVELY. REFER TO SPECIFICATION FOR MORE INFORMATION OF SEWAGE PUMP.
3. NEW 2" SEWAGE PUMP DISCHARGE, 1 1/2" VENT AND 1/2" DCW TO CONNECT TO EXISTING SERVICES RESPECTIVELY IN WASHROOM.
4. LOCATION OF NEW DRINKING WATER CHILLER AND WATER FILTER UNDER THE SINK C/W DRINKING GLASS FILLER COUNTER-TOP MOUNTED. PIPE 1/2" DCW TO WATER FILTER AND WATER CHILLER. PROVIDE REDUCER AS REQUIRED. PIPE 1/2" LINE TO COFFEE MAKER FROM WATER FILTER. PROVIDE REDUCER AS REQUIRED.
5. CONNECT NEW 3/4" CONDENSATE DRAIN TO EXISTING APPROXIMATELY THIS LOCATION. COORDINATE NEW AND EXISTING STRUCTURES AND SERVICES TO SUIT NEW INSTALLATION. CONTRACTOR TO CONFIRM EXACT LOCATION ON SITE.
6. CONNECT NEW 1/2" DCW C/W SHUT-OFF VALVE TO EXISTING APPROXIMATELY THIS LOCATION. COORDINATE NEW AND EXISTING SERVICES AND STRUCTURES TO SUIT NEW INSTALLATION. CONTRACTOR TO CONFIRM EXACT LOCATION ON SITE.
7. CONNECT NEW 1" SEWAGE PUMP DISCHARGE TO EXISTING 4" SANITARY STACK APPROXIMATE THIS LOCATION. COORDINATE NEW AND EXISTING SERVICES AND STRUCTURES TO SUIT NEW INSTALLATION. CONTRACTOR TO CONFIRM EXACT LOCATION ON SITE.
8. CONNECT NEW 1 1/2" PLUMBING VENT TO EXISTING IN CEILING SPACE APPROXIMATELY THIS LOCATION. COORDINATE NEW AND EXISTING SERVICES TO SUIT NEW INSTALLATION. CONTRACTOR TO CONFIRM EXACT LOCATION ON SITE.
9. COORDINATE LOCATION OF ALL UNDERCOUNTER EQUIPMENT WITH MILLWORK DRAWINGS.
10. PROVIDE LEAK DETECTION ALARM CONNECTED TO BMS.
11. LIQUID AND GAS REFRIGERANT PIPES UP TO ROOF THROUGH MECHANICAL SHAFT. REFER TO DRAWING 1/M4. OFFSET PIPING AS REQUIRED TO AVOID EXISTING SERVICES.



DRAWING LEGEND

●	RECESSED PENDENT
○	UPRIGHT SPRINKLER HEAD
ER	DENOTES RELOCATED EXISTING SPRINKLER HEAD
A	DENOTES NEW ADDITION SPRINKLER HEAD
E	DENOTES EXISTING TO REMAIN SPRINKLER HEAD ADJUST FOR NEW CEILING WHERE REQUIRED
D	DENOTES EXISTING TO BE REMOVED
—	SANITARY LINE
—	DOMESTIC COLD WATER SUPPLY
—	SANITARY VENT
○—	PIPE UP
—○	PIPE DOWN
—RS—	REFRIGERANT GAS
—RL—	REFRIGERANT LIQUID
—CD—	CONDENSATE

Public Works and
Government Services
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Travaux publics et
Services gouvernementaux
Canada

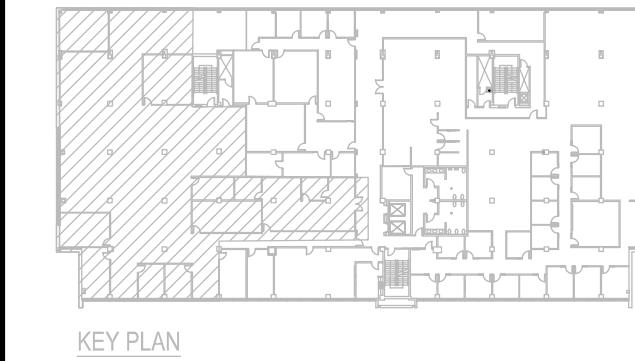
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Western Region

SERVICES IMMOBILIERS

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KEY PLAN



Certificate of Authorization

HDK Consulting Incorporated

No. 5539 Date: 04/30/2016

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Client/client

CANADA SCHOOL OF
PUBLIC SERVICES (CSPS)

Winnipeg
Manitoba

Project title/Titre du projet
**STANLEY KNOWLES BUILDING
2ND FLOOR - 391 YORK AVENUE
WINNIPEG, MANITOBA**

CSPS WINNIPEG FIT-UP

Approved by/Approuvé par
DAVID HO

Designed by/Concept par
ROBIN ROQUE

Drawn by/Dessiné par
IVY SANTOS

PWGSC Project Manager/Administrateur de Projets TPSC
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PWGSC, Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie, TPSC

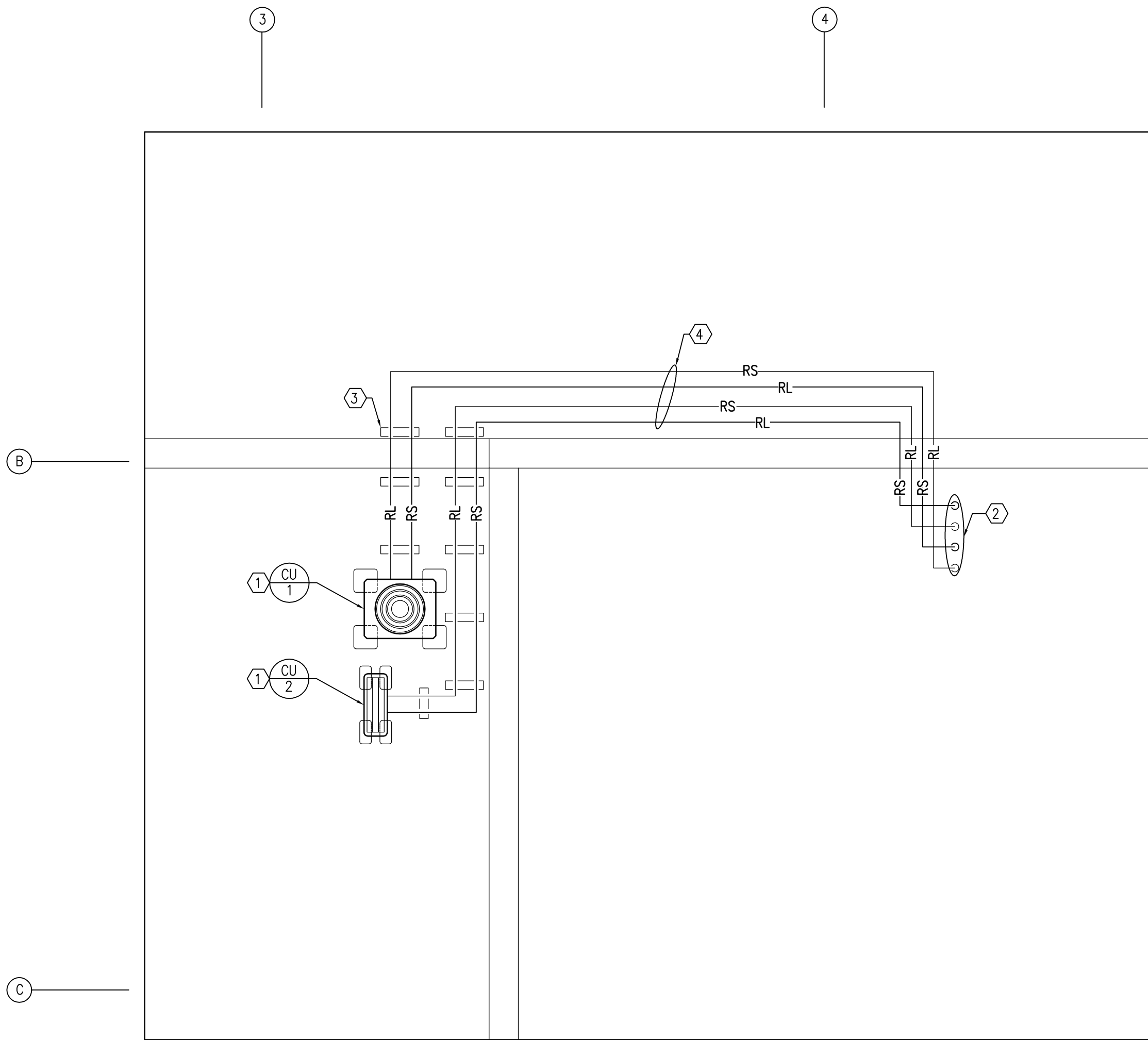
Client/client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Drawing title/Titre du dessin

**FIRE PROTECTION AND
PLUMBING LAYOUT**

Project No./No. du projet R.060508.003	Sheet/Fauille M3 OF 5	Revision no./ La Révision no. 3
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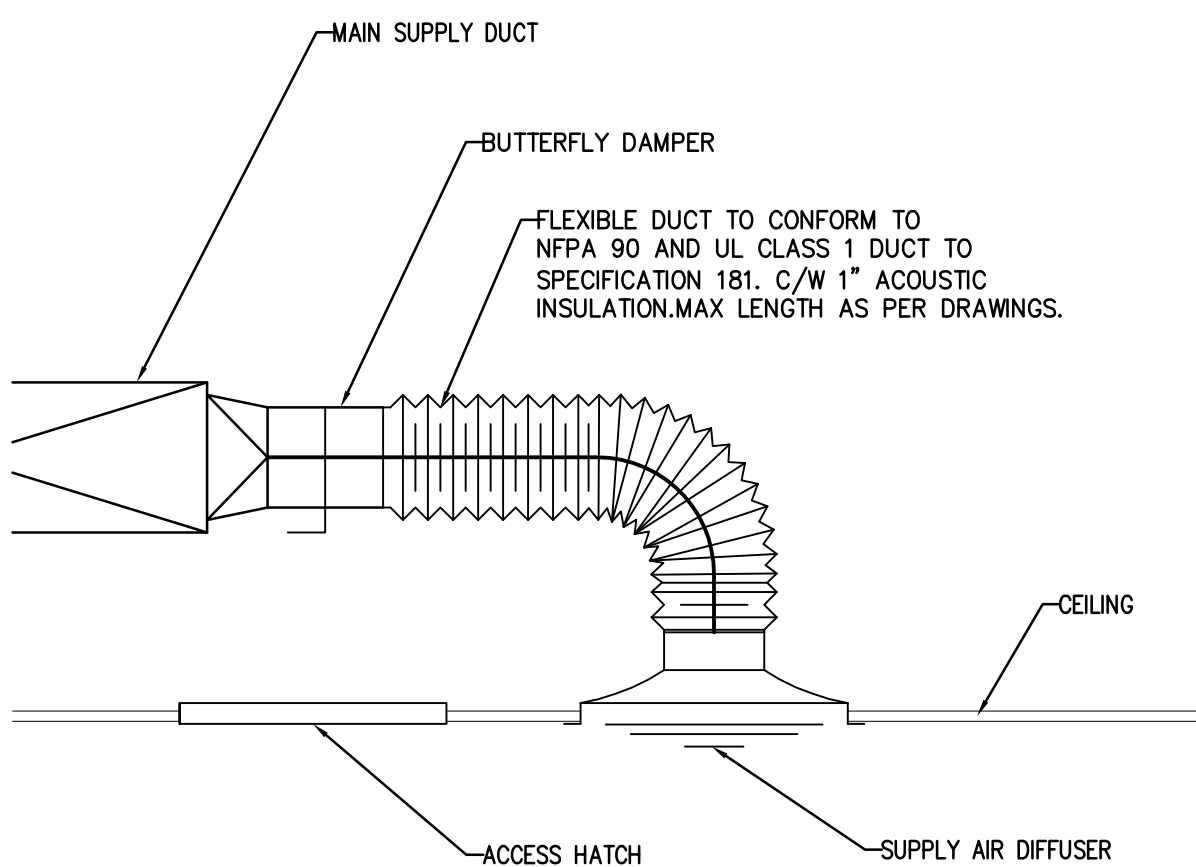




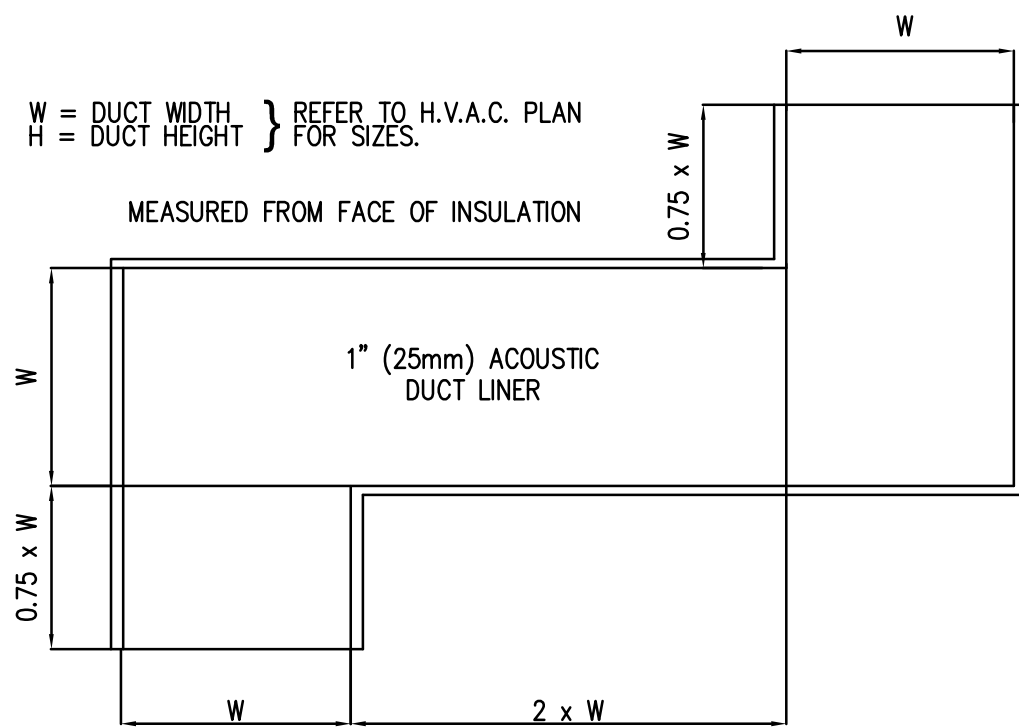
1 ROOF MECHANICAL LAYOUT
M4 1:50

DRAWING KEYNOTES:

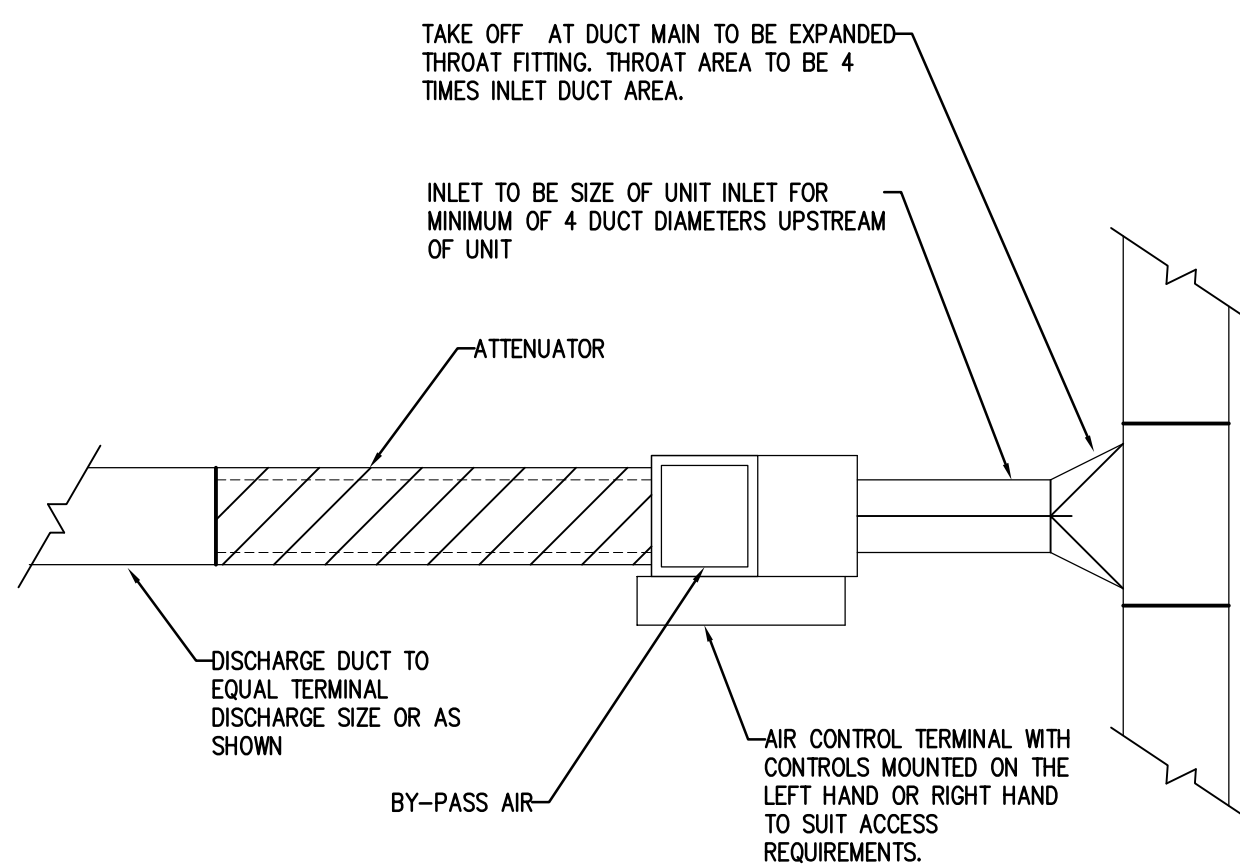
- ENGINEERED EQUIPMENT AND SERVICE SUPPORT SYSTEM. NON-PENETRATING WITH RUBBER BASE AND UNI-STRUT CHANNELS. ENGINEERED SYSTEM FROM MANUFACTURER.
- LIQUID AND REFRIGERANT PIPES DOWN TO SECOND FLOOR THROUGH MECHANICAL SHAFT. REFER TO DRAWING 5/M4 FOR PIPE SIZES.
- RUBBER SUPPORT WITH INTEGRAL UNISTRUT. TYPICAL
- SUPPORT PIPING ALONG WALL WITH UNISTRUT. COORDINATE PENETRATION THROUGH WALL WITH OTHER EQUIPMENT AND SERVICES.



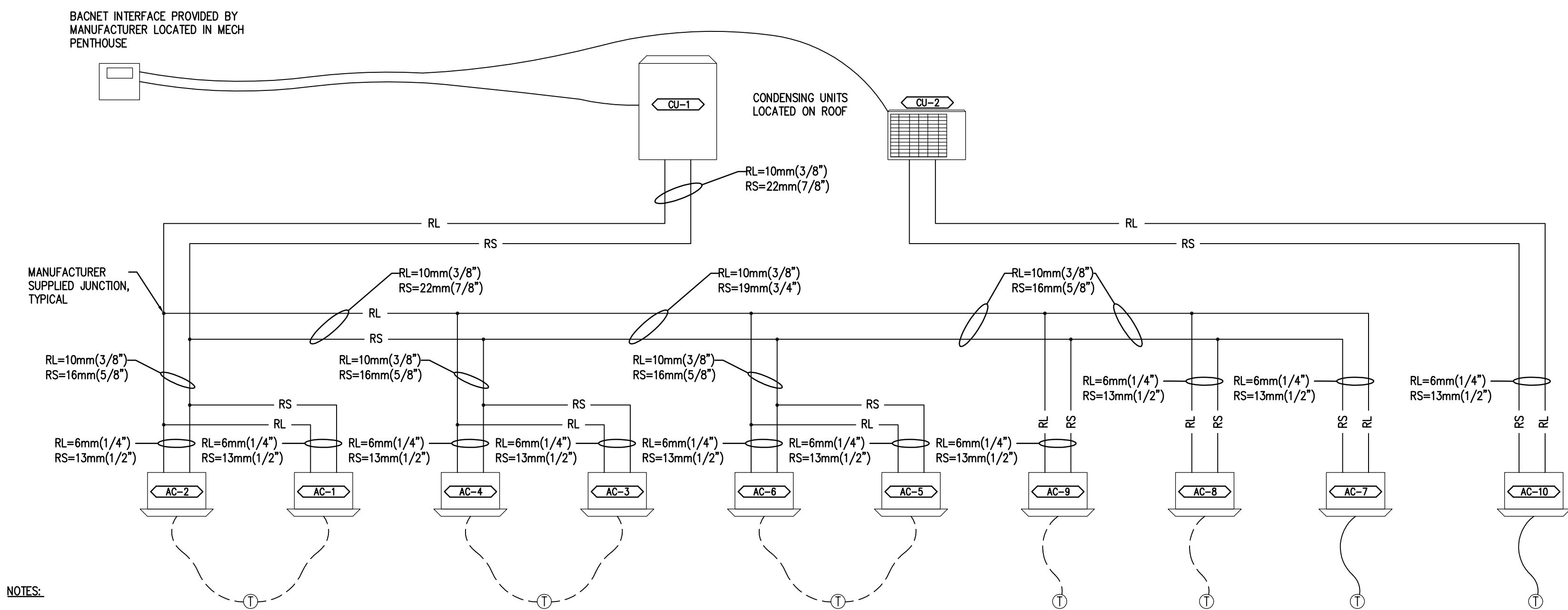
3 CEILING DIFFUSER DETAIL
M4 NTS



2 TRANSFER AIR DUCT DETAIL
M4 NTS



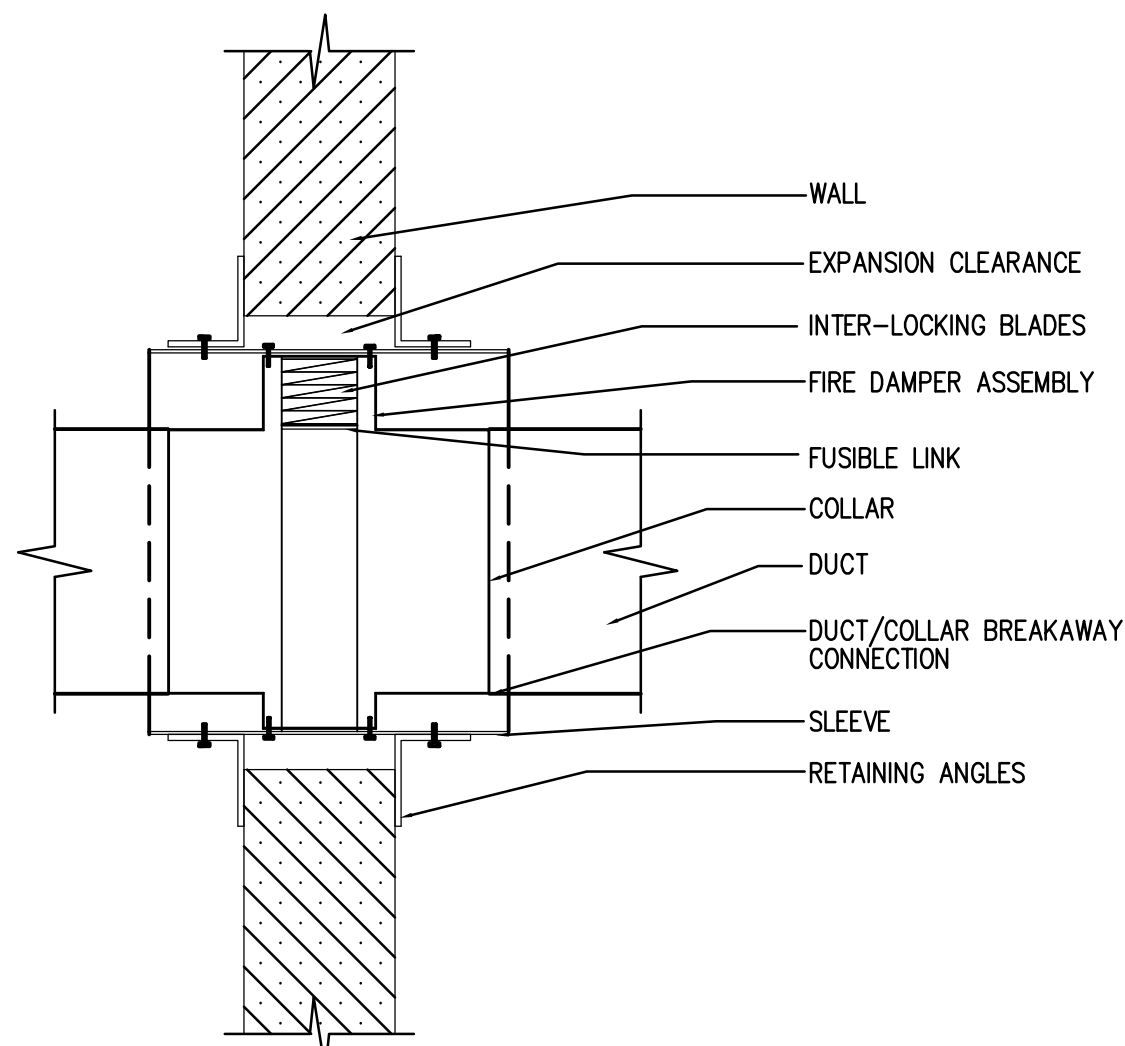
4 VARIABLE AIR VOLUME (VAV) DETAIL
M4 NTS



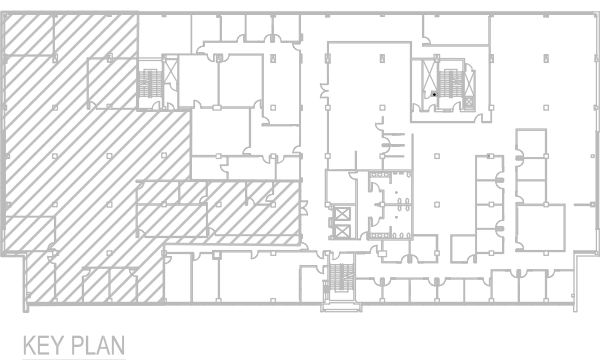
5 CONTROL SCHEMATIC
M4 NTS

- NOTES:
- PIPING LAYOUT AND SIZE IS DEPENDANT ON MANUFACTURER. CONTRACTOR TO REVISE PIPING AT NOT ADDITIONAL COST TO SUIT CHOSEN MANUFACTURER.
 - CONTRACTOR SHALL VERIFY THE PIPE SIZES WITH EQUIPMENT MANUFACTURER.

- NOTES
- FIRE DAMPER TO BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION.
 - DUCT/COLLAR BREAKAWAY CONNECTION TO BE APPROVED.



6 FIRE DAMPER DETAIL
M4 NTS



KEY PLAN



DO NOT SCALE DRAWINGS

Revision/	Description/Description	Date/Date
3	ISSUED FOR CONSTRUCTION	15/11/20
2	100% CD SUBMISSION	15/10/28
1	99% CD SUBMISSION	15/09/28
0	50% CD SUBMISSION	15/08/14

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ROOF MECHANICAL LAYOUT AND DETAILS



FAN SCHEDULE												
TAG	MANUFACTURER	TYPE	MODEL	RPM	AIR FLOW RATE		E. S. P.		MOTOR		SONES	ACCESSORIES
					(L/s)	(CFM)	(Pa)	(in.WC)	(W)	(HP)		
TF-1	GREENHECK	I	CSP-A410	1,000	142	300	62	0.25	149	0.20	2.0	BD,SC,DS
TF-2	GREENHECK	I	CSP-A410	1,000	142	300	62	0.25	149	0.20	2.0	BD,SC,DS
TF-3	GREENHECK	I	CSP-A200	900	94	200	62	0.25	45	0.06	0.9	BD,SC,DS

NOTES:

1. TRANSFER FANS TO OPERATE BY ROOM SPEED CONTROLLER.

2. COORDINATE AND SELECT ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

3. REFER TO SPECIFICATIONS FOR APPROVED MANUFACTURER.

FAN TYPES:	C CENTRIFUGAL	R ROOF	I IN-LINE	CE CEILING EXHAUST	CU CENTRIFUGAL UP BLAST
	TA TUBE AXIAL	W WALL	MF MIXED FLOW	P PROPELLER	CF CEILING FAN

ABBREVIATIONS:

BG BELT GUARD

AS ADJUSTABLE SHEAVES

SC SOLID STATE SPEED CONTROL

IG INLET GRILLE

BD BACKDRAFT DAMPER

F FILTER

E EPOXY COATING

IH INLET HOOD

MT MANUAL RESET TIMER

NSW NON-SPARKING WHEEL

SH SPRING HANGERS

VP VIBRATION PADS

SM SPRING MOUNT

WC WALL CAP

DS DISCONNECT SWITCH

MDW MOTION DETECTOR, WALL MTD. GN

SD SCROLL DRAIN

FC FACTORY CURB

BS BIRDSCREEN

MC MOUNTING COLLAR

WH WEATHERPROOF HOUSING

RC ROOF CAP

AD ACCESS DOOR

GOOSENECK

DIRECT EXPANSION FAN COIL SCHEDULE (MITSUBISHI)										
TAG	SERVICE	MODEL	FAN PERFORMANCE				COOLING COIL PERFORMANCE		REFRIGERANT TYPE	
			AIR FLOW RATE		E.S.P.		MOTOR	NOMINAL COOLING		
			(L/s)	(CFM)	(Pa)	(in.WC)	(W)	(kW)	(MBH)	
AC-1	RM 107C	PLFY-P12NCMU-E	165	350	-	-	FRAC.	3.5	12.0	R410A
AC-2	RM 107C	PLFY-P12NCMU-E	165	350	-	-	FRAC.	3.5	12.0	R410A
AC-3	RM 107B	PLFY-P12NCMU-E	165	350	-	-	FRAC.	3.5	12.0	R410A
AC-4	RM 107B	PLFY-P12NCMU-E	165	350	-	-	FRAC.	3.5	12.0	R410A
AC-5	RM 107A	PLFY-P12NCMU-E	165	350	-	-	FRAC.	3.5	12.0	R410A
AC-6	RM 107A	PLFY-P12NCMU-E	165	350	-	-	FRAC.	3.5	12.0	R410A
AC-7	RM 109	PLFY-P15NCMU-E	165	350	-	-	FRAC.	4.4	15.0	R410A
AC-8	RM110	PLFY-P15NCMU-E	165	350	-	-	FRAC.	4.4	15.0	R410A
AC-9	RM114	PLFY-P12NCMU-E	165	350	-	-	FRAC.	3.5	12.0	R410A
AC-10	RM104	PKA-A12HA6	158	335	-	-	FRAC.	3.5	12.0	R410A
NOTES: 1. SCHEDULE BASED ON MITSUBISHI. REFER TO SPECIFICATIONS FOR APPROVED ALTERNATES. 2. PROVIDE CONDENSATE LIFT PUMP FOR EACH UNIT. 3. PROVIDE ROOM CONTROLLERS AS INDICATED ON DRAWINGS WITH CLEAR LOCKING COVER. PROVIDE BAGNET INTERFACE AND INTEGRATE WITH EXISTING BMS. 4. AC-10 SHALL BE CAPABLE OF -40C (YEAR ROUND) OPERATION. 5. REFER TO SPECIFICATIONS FOR APPROVED MANUFACTURER.										

TAG	AREA SERVED		UNIT SIZE	AIRFLOW RATE				ATTENUATOR LENGTH	
				MAXIMUM	MINIMUM				
				(L/s)	(CFM)	(L/s)	(CFM)	(mm)	(in.)
VAV-1	Classroom	LGB SERIES	12	623	1320	165	350	914	36
VAV-2	Webex Room	LGB SERIES	6	104	220	26	55	914	36
VAV-3	Office	LGB SERIES	6	28	60	7	15	914	36
VAV-4	Meeting Room	LGB SERIES	8	198	420	50	105	914	36

NOTES:

1. COMPLETE ROUND BYPASS COLLAR C/W BALANCING DAMPER.
2. COORDINATE CONTROLS WITH CONTROLS CONTRACTOR. INTEGRATE WITH EXISTING BMS.
3. ACTUATOR AND DAMPER PROVIDED BY CONTROLS CONTRACTOR.
4. PROVIDE CLEAR COVER FOR THERMOSTATS WITH LOCK.
5. COORDINATE SUPPORT REQUIREMENTS WITH STRUCTURE.
6. REFER TO SPECIFICATIONS FOR APPROVED MANUFACTURER.

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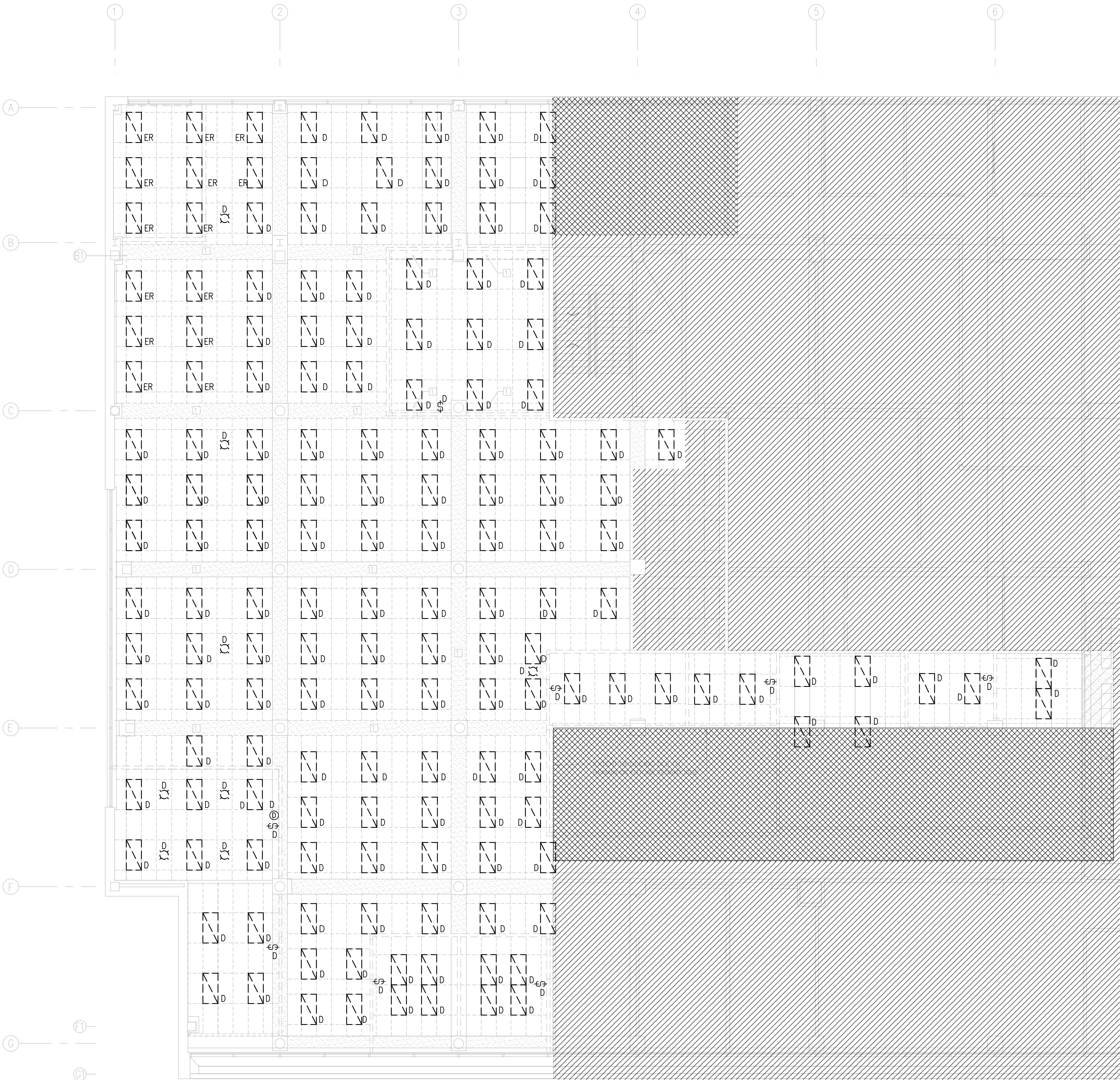
410A

DIFFUSER AND GRILLE SCHEDULE (Based on E. H. PRICE)		
TAG	MODEL	COLOUR
S-1	600X600mm SCD SQUARE CONE DIFFUSER	WHITE/PRIMER
S-2	300x300mm SCD SQUARE CONE DIFFUSER	WHITE
S-3	AST w/ ASP LINEAR 1 SLOT, 38mm (1.5") DIFFUSER (T-BAR)	WHITE
S-4	AS w/ ASP LINEAR 1 SLOT, 38mm (1.5") DIFFUSER (DRYWALL)	WHITE
R-1	SERIES 80 EGG CRATE GRILLE	WHITE
E-1	SERIES 80 EGG CRATE GRILLE	WHITE
NOTES:		
1. PROVIDE BALANCING DAMPER AT EACH SUPPLY BRANCH FOR DIFFUSERS AND AT EACH GRILLE. SIZE AS INDICATED ON DRAWINGS.		
2. PROVIDE BORDER TO SUITE SURFACE INSTALLED ON.		
3. PROVIDE PRIMERED FINISH FOR S-1 OR S-2 WHERE CEILING IS TO BE PAINTED.		
4. LINEAR SLOT DIFFUSER TO COME WITH NON-INSULATED PLENUM, CONNECTION SIZE AS INDICATED ON DRAWINGS.		

[illegible]

ASHRAE 62.1-2007 OUTDOOR AIR CALCULATION																									
General Information							Ventilation/ Fresh Air										Supply						Exhaust		
							People Outdoor Air Rate, R_p	Area Outdoor Air Rate, R_a	Breathing Zone Outdoor Airflow V_{bz}	Zone Outdoor Airflow V_{oz}		Primary Outdoor Air Fraction Z_p		System Ventilation Efficiency E_v		Outdoor Air Intake Flow V_{oi}				Ventilation Effectiveness E_z		ASHRAE Exhaust Rates			
Space	Space Function	Ceiling Height ft	Area ft ² A_z	Volume ft ³	Zone Population P_z	Occupancy Density ft ² /occ	ASHRAE cfm/person	ASHRAE cfm/ft ²	cfm	Heating cfm	Cooling cfm	Heating	Cooling	Heating*	Cooling*	Heating cfm	Cooling cfm	Heating cfm	Cooling cfm	HVAC System	Heating	Cooling	cfm/unit	cfm/ft ²	Design cfm
Reception, Hallway	Corridor	9	653	5877	5	130.6	0.0	0.06	39.2	39.2	39.2	0.75	0.75	0.96	0.96	40.81	40.81	340.0	340.0	CW-FC-207B	1.0	1.0	NA	NA	NA
Classroom	Classroom	12	810	9720	30	27.0	7.5	0.06	273.6	273.6	273.6	0.75	0.75	0.96	0.96	285.00	285.00	1450.0	1450.0	CW-FC-205	1.0	1.0	NA	NA	NA
Classroom	Classroom	12	966	11592	61	15.8	7.5	0.06	515.5	515.5	515.5	0.75	0.75	0.96	0.96	536.94	536.94	2700.0	2700.0	CW-FC-207A	1.0	1.0	NA	NA	NA
Classroom	Classroom	12	921	11052	35	26.3	7.5	0.06	317.8	317.8	317.8	0.75	0.75	0.96	0.96	331.00	331.00	1650.0	1650.0	CW-FC-207B/NAV-1	1.0	1.0	NA	NA	NA
Open Area	Office	12	886	10632	25	35.4	7.5	0.06	240.7	240.7	240.7	0.75	0.75	0.96	0.96	250.69	250.69	1250.0	1250.0	CW-FC-204	1.0	1.0	NA	NA	NA
Meeting Room	Meeting Room	10	326	3260	12	27.2	5.0	0.06	79.6	79.6	79.6	0.75	0.75	0.96	0.96	82.88	82.88	420.0	420.0	CW-FC-217/NAV-5	1.0	1.0	NA	NA	NA
Multi-purpose Room	Meeting Room	9	288	2592	14	20.6	5.0	0.06	87.3	87.3	87.3	0.75	0.75	0.96	0.96	90.92	90.92	450.0	450.0	CW-FC-217/NAV-4	1.0	1.0	NA	NA	NA
Webex Room	Meeting Room	9	187	1683	6	31.2	5.0	0.06	41.2	41.2	41.2	0.75	0.75	0.96	0.96	42.94	42.94	220.0	220.0	CW-FC-207B/NAV-2	1.0	1.0	NA	NA	NA
Quiet Room	Office	8	54	432	2	27.0	5.0	0.06	13.2	13.2	13.2	0.75	0.75	0.96	0.96	14	14	70	70	CW-FC-207B	1.0	1.0	NA	NA	NA
Office	Office	8	109	872	1	109.0	5.0	0.06	11.5	11.5	11.5	0.75	0.75	0.96	0.96	12	12	60	60	CW-FC-207B/NAV-3	1.0	1.0	NA	NA	NA
WorkstationS	Workstation	12	1238	14856	11	112.5	5.0	0.06	129.3	129.3	129.3	0.75	0.75	0.96	0.96	135	135	680	680	CW-FC-203	1.0	1.0	NA	NA	NA
Undesignated Room	Undesignated	12	108	1296	NA	NA	5.0	0.06	6.5	6.5	6.5	0.75	0.75	0.96	0.96	6.75	6.75	35.00	35.00	CW-FC-207A	1.0	1.0	NA	NA	NA
Classroom Storage	Storage	8	51	408	NA	NA	NA	0.12	6.1	6.1	6.1	0.75	0.75	0.96	0.96	6.38	6.38	35.0	35.0	CW-FC-207A	1.0	1.0	NA	NA	NA
Classroom Storage	Storage	8	51	408	NA	NA	NA	0.12	6.1	6.1	6.1	0.75	0.75	0.96	0.96	6.4	6.4	35.0	35.0	CW-FC-207A	1.0	1.0	NA	NA	NA
Telecom Room	Telecom	8	41	328	NA	NA	NA	0.12	4.9	4.9	4.9	0.75	0.75	0.96	0.96	5.1	5.1	25	25	CW-FC-207A	1.0	1.0	NA	NA	NA
Hallway	Corridor	10	1346	13460	0	NA	NA	0.06	80.8	80.8	80.8	0.75	0.75	0.96	0.96	84.1	84.1	420	420	CW-FC-207A	1.0	1.0	NA	NA	NA
Totals					202				1853.2	1853.2	1853.2					1930	1930	9840	9840						0.0
<div>T/A = Transfer Air N/A = Not Applicable NIC = Not Included in Calculation</div> <div>Total F/A Requirement = 1878.2 cfm Existing Fresh Air Supply (AH-SF-201) = 1930.0 cfm</div> <div>Total Supply Air Required = 9840.0 cfm</div>																									





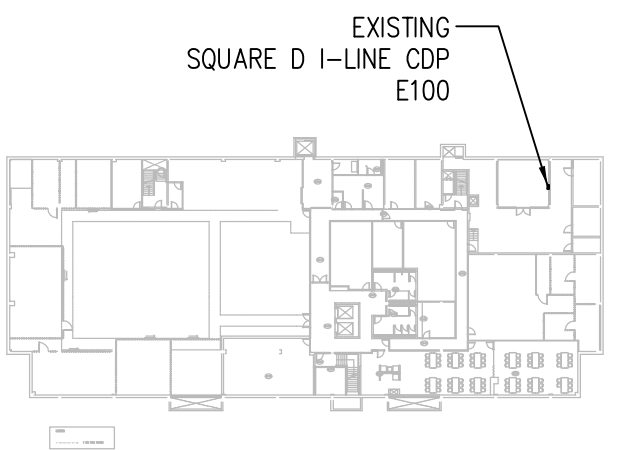
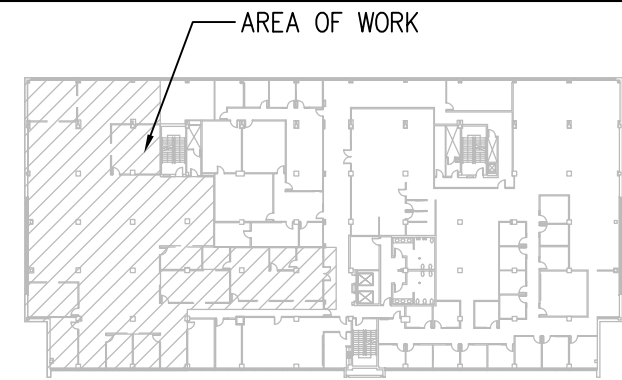
1 SECOND FLOOR LIGHTING DEMOLITION PLAN
E1 1:100

GENERAL NOTES:

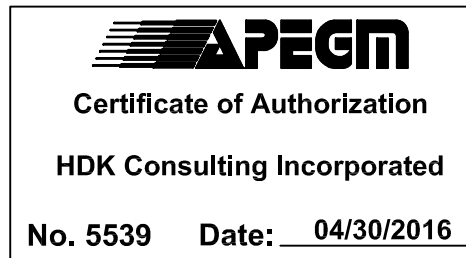
1. MAINTAIN THE INTEGRITY OF ALL EXISTING SYSTEMS REQUIRED TO REMAIN OPERATIONAL. IDENTIFY ALL CIRCUIT BREAKERS, WIRING, JUNCTION BOXES AND DEVICES PRIOR TO PROCEEDING WITH WORK. CONTACT DEPARTMENTAL REPRESENTATIVE IF UNSURE BEFORE SHUTDOWNS, DEMOLITION, OR RELOCATION OF ANY DEVICES.
2. ALL ITEMS SHOWN DASHED WITH AN 'E' ARE EXISTING AND ARE TO REMAIN. ITEMS SHOWN DASHED WITH A 'D' ARE TO BE DISCONNECTED AND DEMOLISHED/REMOVED AND TRANSPORTED TO DESIGNATED SITE TO BE CONFIRMED BY DEPARTMENTAL REPRESENTATIVE. INCLUDE ALL COSTS IN BASE BID. REMOVED AND HAVE ALL ASSOCIATED WIRE AND CONDUIT REMOVED BACK TO SOURCE.
3. EXTEND, RE-ROUTE, RE-WIRE AND RE-CONNECT ALL EXISTING DEVICES TO BE RELOCATED.
4. WIRE AND CONDUIT SERVING DEVICES REQUIRED TO REMAIN IN USE SHALL BE RE-ROUTED AND DIVERTED AS REQUIRED TO MAINTAIN OPERATION. EXTEND, RE-ROUTE, RE-WIRE AND RE-CONNECT AS REQUIRED. CONFIRM EXISTING ON SITE.
5. NOT ALL DEVICES AND ELECTRICAL EQUIPMENT IS BEING SHOWN ON ELECTRICAL DRAWINGS. REMOVE ALL EXISTING ELECTRICAL DEVICES SHOWN OR NOT LOCATED ON INDICATED WALLS OR PORTIONS OF THE BUILDING BEING DEMOLISHED OR MODIFIED. MAINTAIN INTEGRITY OF ALL EXISTING ELECTRICAL SYSTEMS IN AREAS NOT INCLUDED IN THIS PROJECT AND IN PARTS OF THE BUILDING WITHIN RENOVATION THAT ARE NOT SUBJECTED TO ANY DEMOLITION WORK.
6. REFER TO SYMBOL SCHEDULE FOR ELECTRICAL SYMBOLS AND LETTER DESIGNATIONS.
7. EXISTING LUMINAIRES IN AREAS NOT DIRECTLY INCLUDED IN RENOVATION AREA TO REMAIN.
8. REPORT ANY DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND SITE OBSERVATION TO DEPARTMENTAL REPRESENTATIVE.
9. COORDINATE FINAL LOCATION OF LUMINAIRES WITH ALL OTHER TRADES.
10. ALL EXISTING LUMINAIRES IN AREA OF RENOVATION TO BE DISCONNECTED FROM EXISTING DOUGLAS PANEL.
11. SYSTEMS AND DEVICES IN AREAS OF LIMITED SCOPE OF WORK AREAS TO REMAIN OPERATIONAL. PROVIDE ALL MODIFICATIONS TO ACCOMMODATE SCOPE OF WORK.

SYMBOL SCHEDULE:

- C - DENOTES CEILING MOUNTED
- R - DENOTES RELOCATED DEVICE
- E - DENOTES EXISTING DEVICE TO REMAIN
- D - DENOTES EXISTING DEVICE TO BE DEMOLISHED
- ER - DENOTES EXISTING DEVICE TO BE RELOCATED
- \$ - ONE GANG SWITCH (LOW VOLTAGE)
- \$ - TWO GANG SWITCH
- \$_{SC} - SCENE CONTROLLER
- \$_{OC} - COMBINATION WALL SWITCH OCCUPANCY SENSOR
- Ⓢ - WALLBOX DIMMER
- Ⓢ - DUPLEX RECEPTACLE
- Ⓢ - DOOR BUZZER
- Ⓢ - FIRE ALARM SPEAKER
- Ⓢ - EGRESS SIGN
- Ⓢ - FIRE ALARM STROBE
- Ⓢ - FIRE ALARM SMOKE DETECTOR
- ⓈTV - RECEPTACLE FOR TV
- Ⓢ - JUNCTION BOX
 - DO - DOOR OPERATOR
 - AC - ACCESS CONTROL
 - VAV - VARIABLE AIR VOLUME TERMINAL UNIT
- Ⓢ - QUAD RECEPTACLE
- Ⓢ - DUPLEX RECEPTACLE MOUNTED AT COUNTER HEIGHT
- Ⓢ - SURFACE MOUNT RACEWAY
- Ⓢ - PANELBOARD
- Ⓢ - FIRE ALARM PULL STATION
- Ⓢ - RACEWAY
- Ⓢ - RECESSED DOWNLIGHT
- Ⓢ - RECESSED DOWNLIGHT (EMERGENCY)
- Ⓢ - LUMINAIRE LAY-IN TROFFER STYLE
- Ⓢ - LUMINAIRE LAY-IN TROFFER STYLE (EMERGENCY)
- Ⓢ - SUSPENDED DIRECT/INDIRECT STYLE LUMINAIRE
- Ⓢ - SUSPENDED DIRECT/INDIRECT STYLE LUMINAIRE (EMERGENCY)
- Ⓢ - STRIP STYLE LUMINAIRE
- Ⓢ - WALL MOUNT LUMINAIRE
- Ⓢ - CEILING MOUNT OCCUPANCY SENSOR
- ⓈDB - DOOR BUZZER BUTTON
- Ⓢ - MOTOR CONNECTION C/W DISCONNECT
- Ⓢ - MECHANICAL CONNECTION C/W DISCONNECT
- ⓈP - PHOTOCELL
- ⓈMP - MOVABLE PARTITION
- Ⓢ - COUNTER HEIGHT GFCI TYPE RECEPTACLE
- Ⓢ - LIMITED SCOPE OF WORK
- Ⓢ - AREA NOT WITHIN THE SCOPE OF RENOVATION
- Ⓢ - SINGLE SIDED EXIT SIGN
- Ⓢ - DOUBLE SIDED EXIT SIGN
- WP - WEATHERPROOF



BASEMENT KEY PLAN



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Client/client

CANADA SCHOOL OF
PUBLIC SERVICE (CSPS)

Winnipeg
MANITOBA

Project title/Titre du projet
STANLEY KNOWLES BUILDING
2ND FLOOR - 391 YORK AVENUE
WINNIPEG, MANITOBA

CSPS WINNIPEG FIT-UP

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Ressources Architectural et de Directeur d'ingénierie, TPSCG

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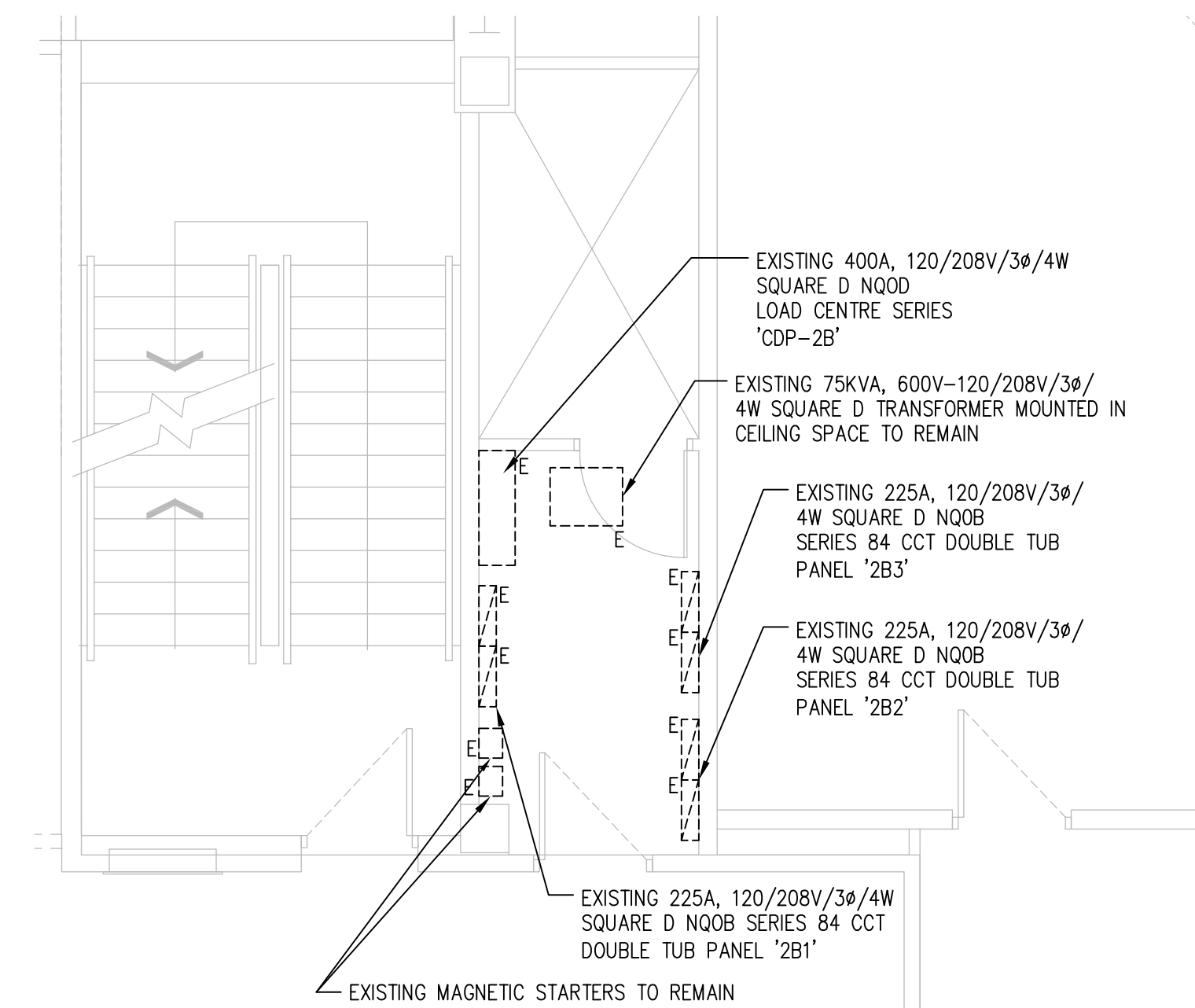
Drawing title/Titre du dessin
SECOND FLOOR LIGHTING
DEMOLITION PLAN, GENERAL NOTES
AND SYMBOL SCHEDULE



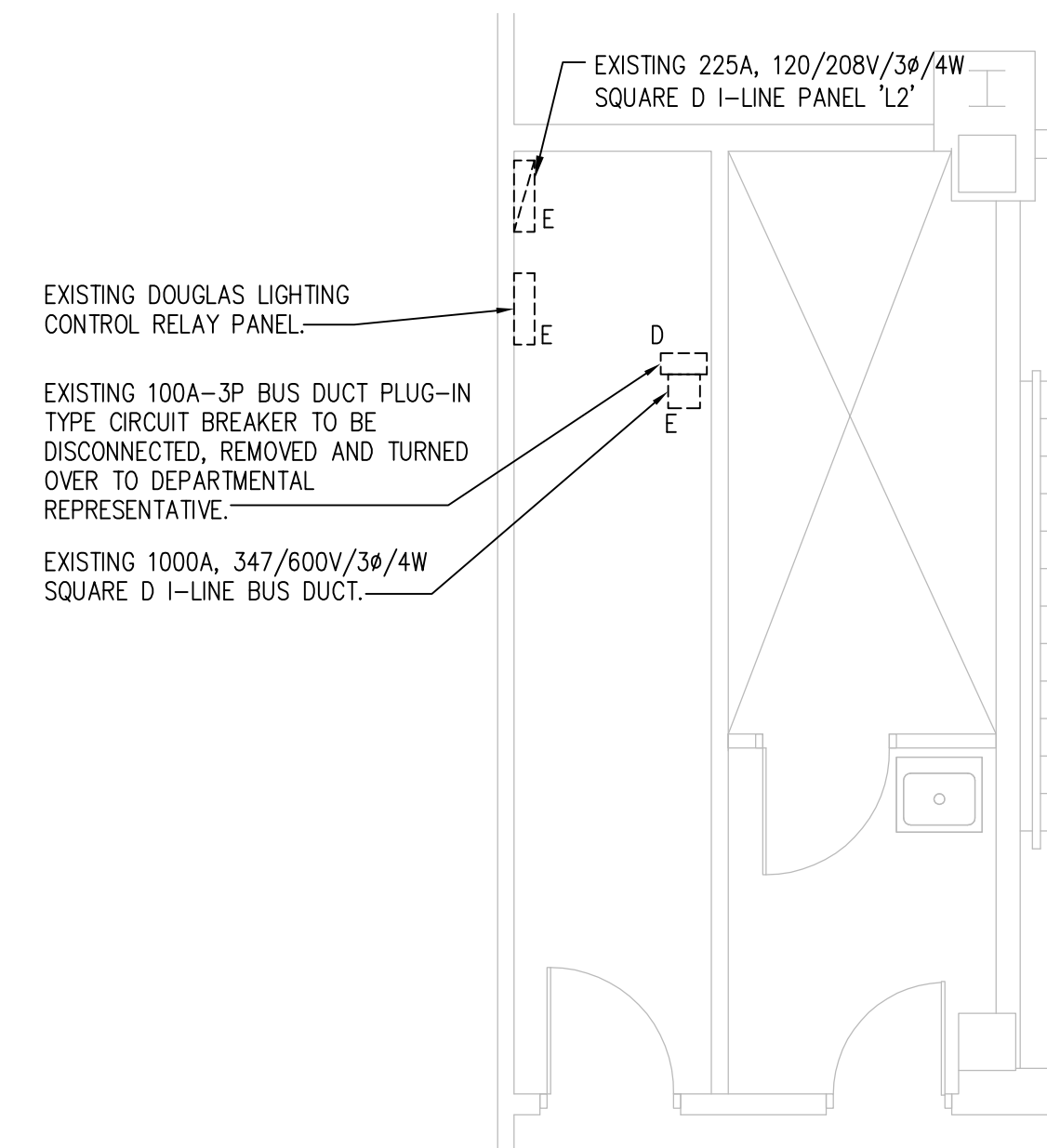
1 SECOND FLOOR POWER DEMOLITION PLAN
E2 1:100

GENERAL NOTES:

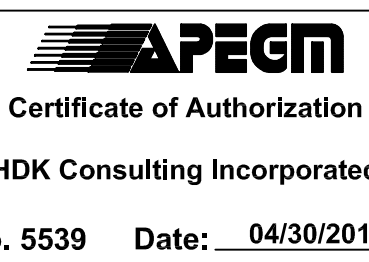
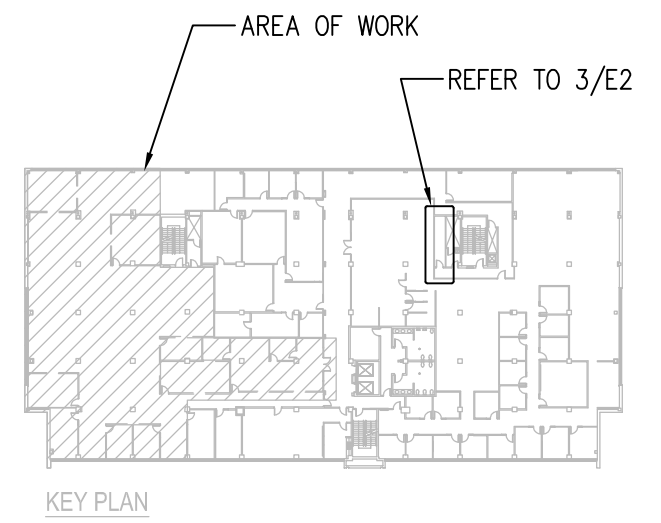
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3. EXTEND, RE-ROUTE, RE-WIRE AND RE-CONNECT EXISTING FAN COIL TO NEW LOCATION. CONFIRM EXISTING ON SITE.
4. WIRE AND CONDUIT SERVING DEVICES REQUIRED TO REMAIN IN USE SHALL BE RE-ROUTED AND DIVERTED AS REQUIRED TO MAINTAIN OPERATION. EXTEND, RE-ROUTE, RE-WIRE AND RE-CONNECT AS REQUIRED. CONFIRM EXISTING ON SITE.
5. PROVIDE NEW BLANK STAINLESS STEEL COVERPLATES FOR ALL ABANDONED OUTLETS.
6. REPORT ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND SITE OBSERVATIONS TO DEPARTMENTAL REPRESENTATIVE.
7. NOT ALL DEVICES AND ELECTRICAL EQUIPMENT IS BEING SHOWN ON ELECTRICAL DRAWINGS. REMOVE ALL EXISTING ELECTRICAL DEVICES SHOWN OR NOT LOCATED ON INDICATED WALLS OR PORTIONS OF THE BUILDING BEING DEMOLISHED OR MODIFIED. MAINTAIN INTEGRITY OF ALL EXISTING ELECTRICAL SYSTEMS IN AREAS NOT INCLUDED IN THIS PROJECT AND IN PARTS OF THE BUILDING WITHIN RENOVATION THAT ARE NOT SUBJECTED TO ANY DEMOLITION WORK.
8. REFER TO SYMBOL SCHEDULE FOR ELECTRICAL SYMBOLS AND LETTER DESIGNATIONS.
9. ALL EXISTING DEVICES ON WALLS, FLOORS OR CEILING NOT BEING AFFECTED BY RENOVATION ARE TO REMAIN.
10. SYSTEMS AND DEVICES IN AREAS OF LIMITED SCOPE OF WORK AREAS TO REMAIN OPERATIONAL. PROVIDE ALL MODIFICATIONS TO ACCOMMODATE SCOPE OF WORK.



2 EXISTING LARGE SCALE SECOND FLOOR
SATELLITE ELECTRICAL ROOM LAYOUT
E2 1:50



3 EXISTING LARGE SCALE SECOND FLOOR
MAIN ELECTRICAL ROOM LAYOUT
E2 1:50



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CANADA SCHOOL OF PUBLIC SERVICE (CSPS)

Winnipeg
MANITOBA

Project title/Titre du projet
STANLEY KNOWLES BUILDING
2ND FLOOR - 391 YORK AVENUE
WINNIPEG, MANITOBA

CSPS WINNIPEG FIT-UP

Approved by/Approuvé par
HUGO CEA CANAS

Designed by/Conçu par
PAUL LAPOINTE

Drawn by/Dessiné par
RHODA DE CASTRO
PWGSC Project Manager/Administrateur de Projets TPSC
JOHN ALIBIN

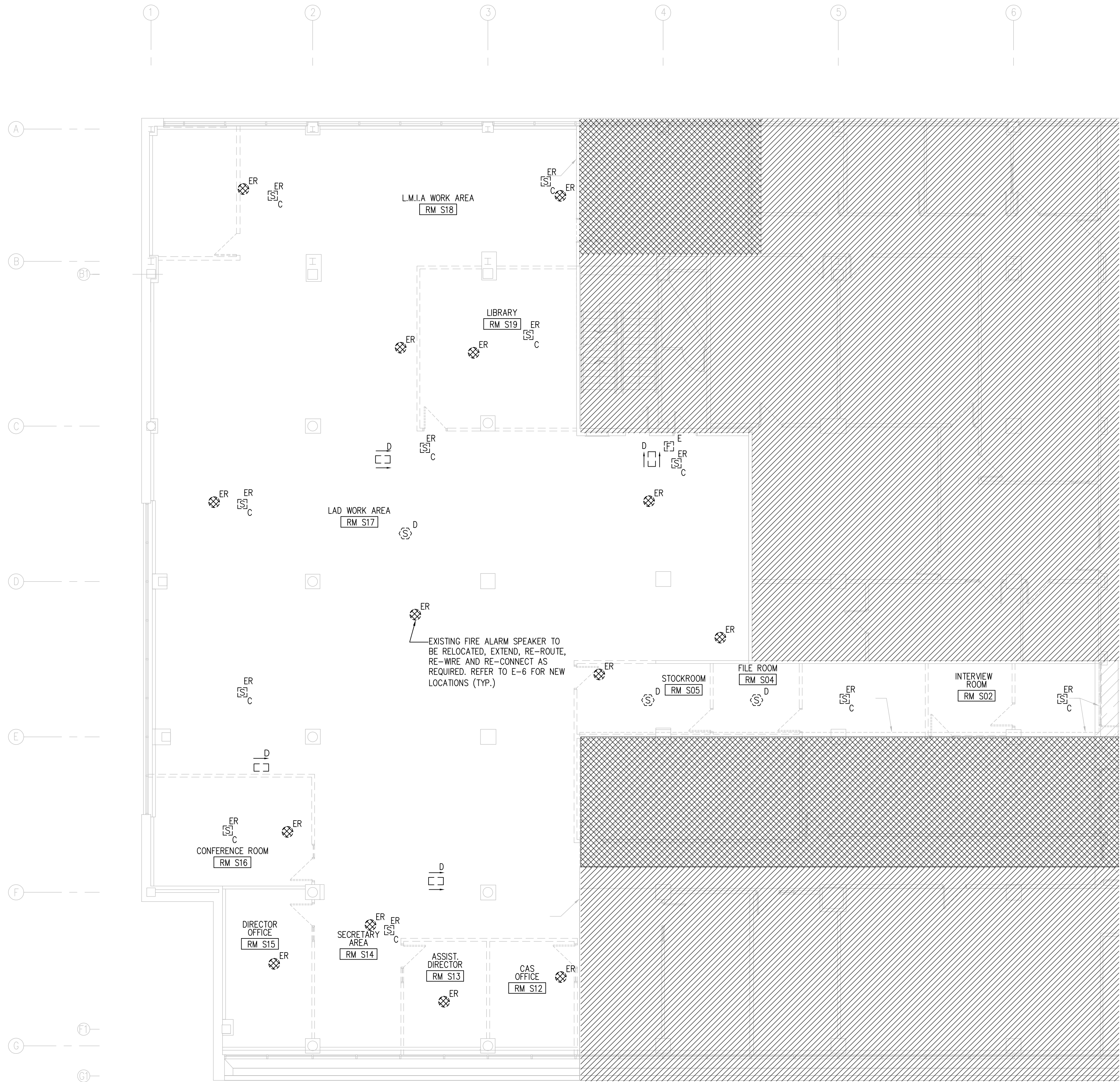
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Ressources Architectural et de Directeur d'ingénierie, TPSC

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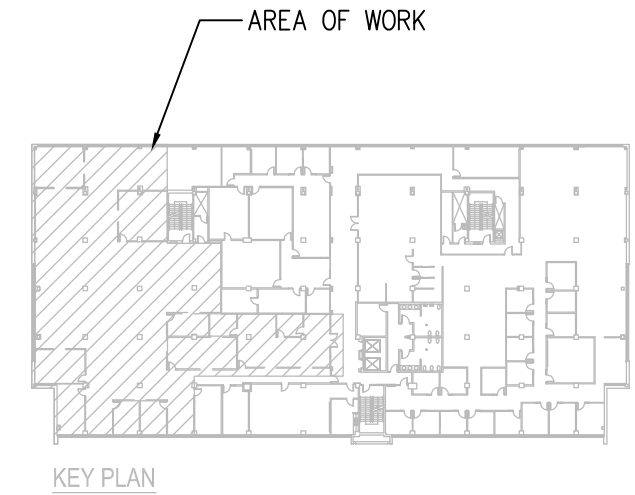
SECOND FLOOR POWER DEMOLITION PLAN, LARGE SCALE SUB ELECTRICAL ROOM LAYOUT, AND GENERAL NOTES

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.060508.003	E2 OF 12	3



1 SECOND FLOOR LIFE SAFETY SYSTEMS DEMOLITION PLAN
E3 1:100

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**STANLEY KNOWLES BUILDING
2ND FLOOR - 391 YORK AVENUE
WINNIPEG, MANITOBA**

CSPS WINNIPEG FIT-UP

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**SECOND FLOOR LIFE SAFETY
SYSTEMS DEMOLITION PLAN**

Project No./No. du projet R.060508.003	Sheet/Feuille E3 OF 12	Revision no./La Révision no. 3
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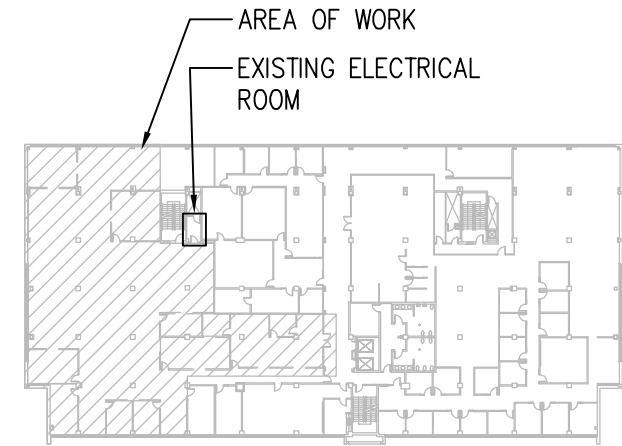




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KEY PLAN



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SECOND FLOOR NEW
LIGHTING PLAN

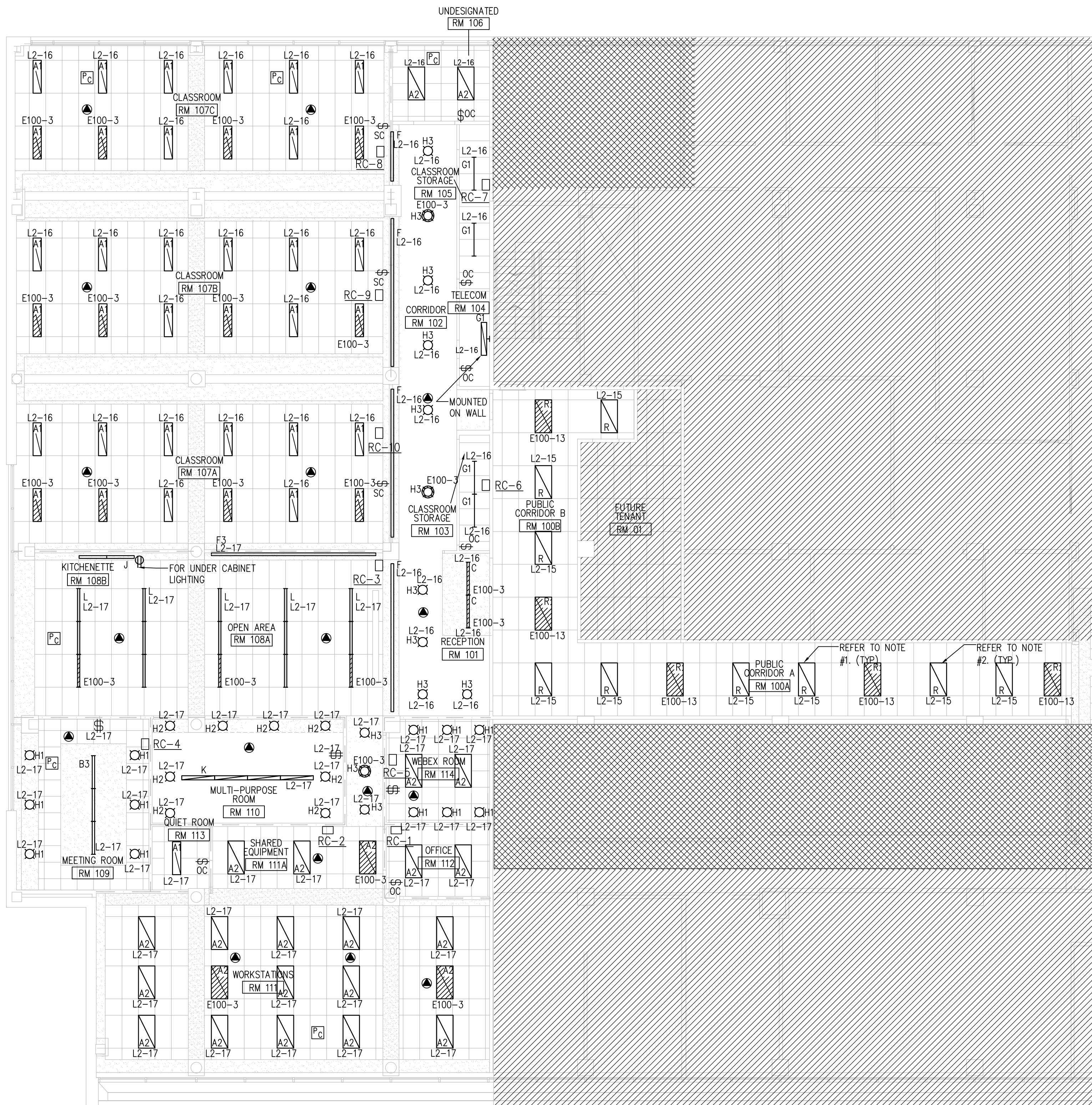
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E4
OF 12

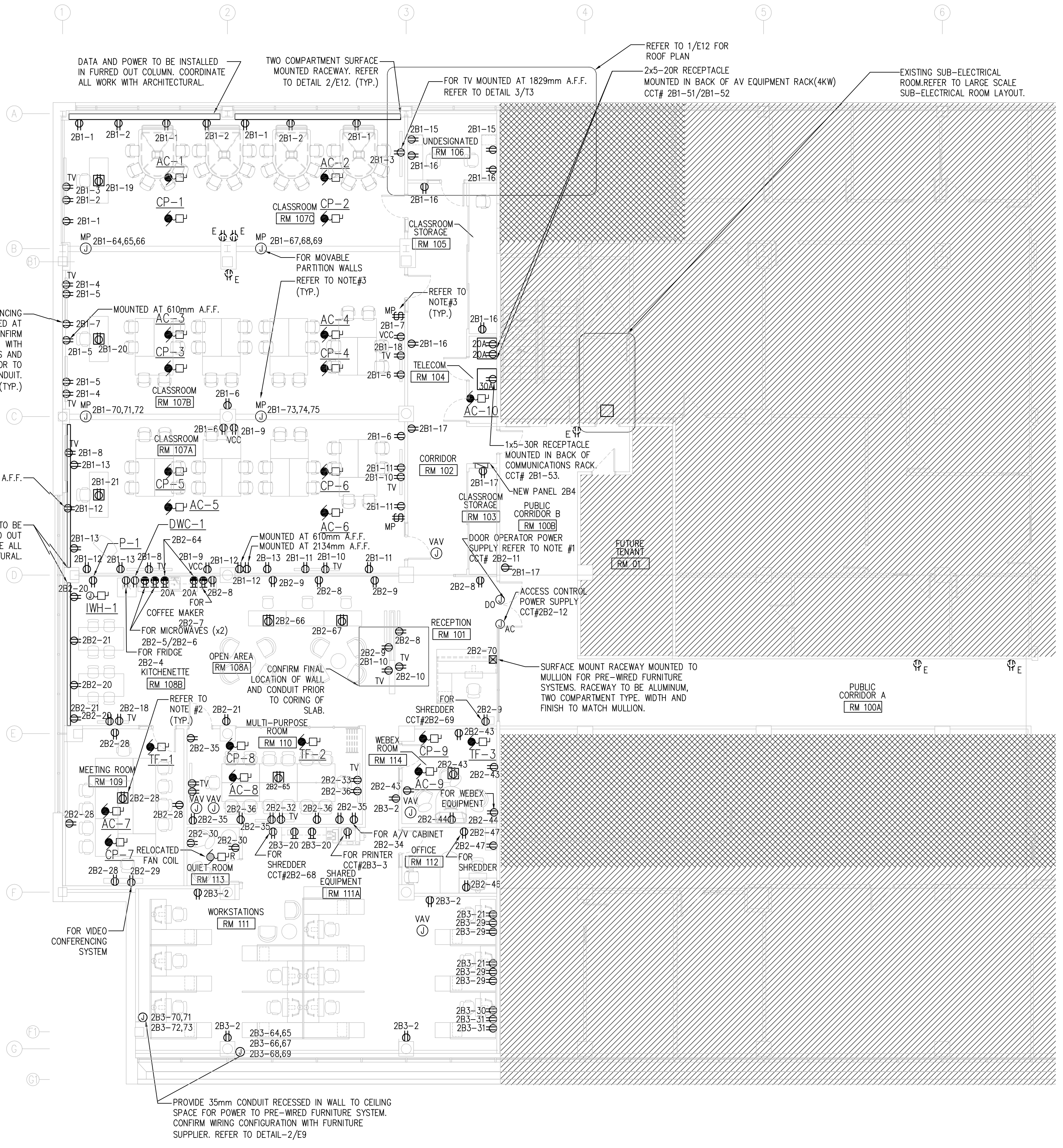
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La Révision
no.
3

NOTES:

- EXISTING LUMINAIRES TO BE RELOCATED DESIGNATED WITH 'R'. CLEAN ALL REFLECTORS AND LENSES AND REPLACE ALL BROKEN COMPONENTS TO MAKE THEM FULLY OPERATIONAL. RELAMP WITH NEW T8/835K FLUORESCENT LAMPS. LUMINAIRES TO BE WIRED TO EXISTING DOUGLAS LIGHTING CONTROL PANEL. RE-USE EXISTING RELAYS. PROVIDE ALL REQUIRED PROGRAMMING TO HAVE LUMINAIRE ON ELEVATOR LOBBY CENTRAL TIMECLOCK CONTROL AND LOCAL SWITCHES. CONFIRM ON SITE.
- EXISTING LUMINAIRES TO BE RELOCATED AND WIRED AS NIGHT LIGHTING. CLEAN ALL REFLECTORS AND LENSES AND REPLACE ALL BROKEN COMPONENTS. RELAMP WITH NEW T8/835K FLUORESCENT LAMPS. LUMINAIRES TO BE WIRED TO EXISTING 2ND FLOOR NIGHT LIGHTING CIRCUIT. BACK TO EXISTING PANEL E100 IN BASEMENT MAIN ELECTRICAL ROOM. CONFIRM EXISTING ON SITE.



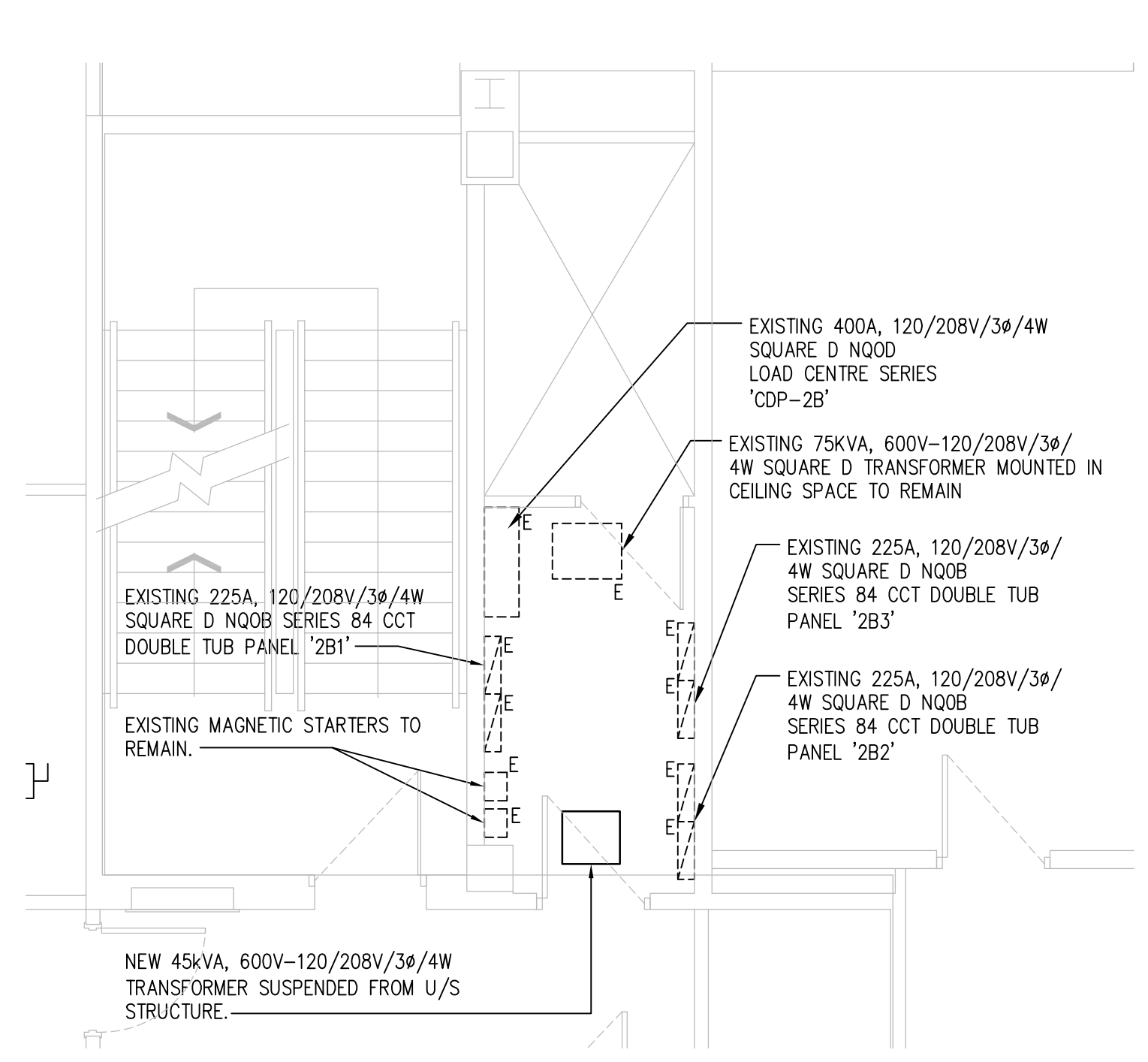
1 SECOND FLOOR NEW LIGHTING PLAN
E4 1:100



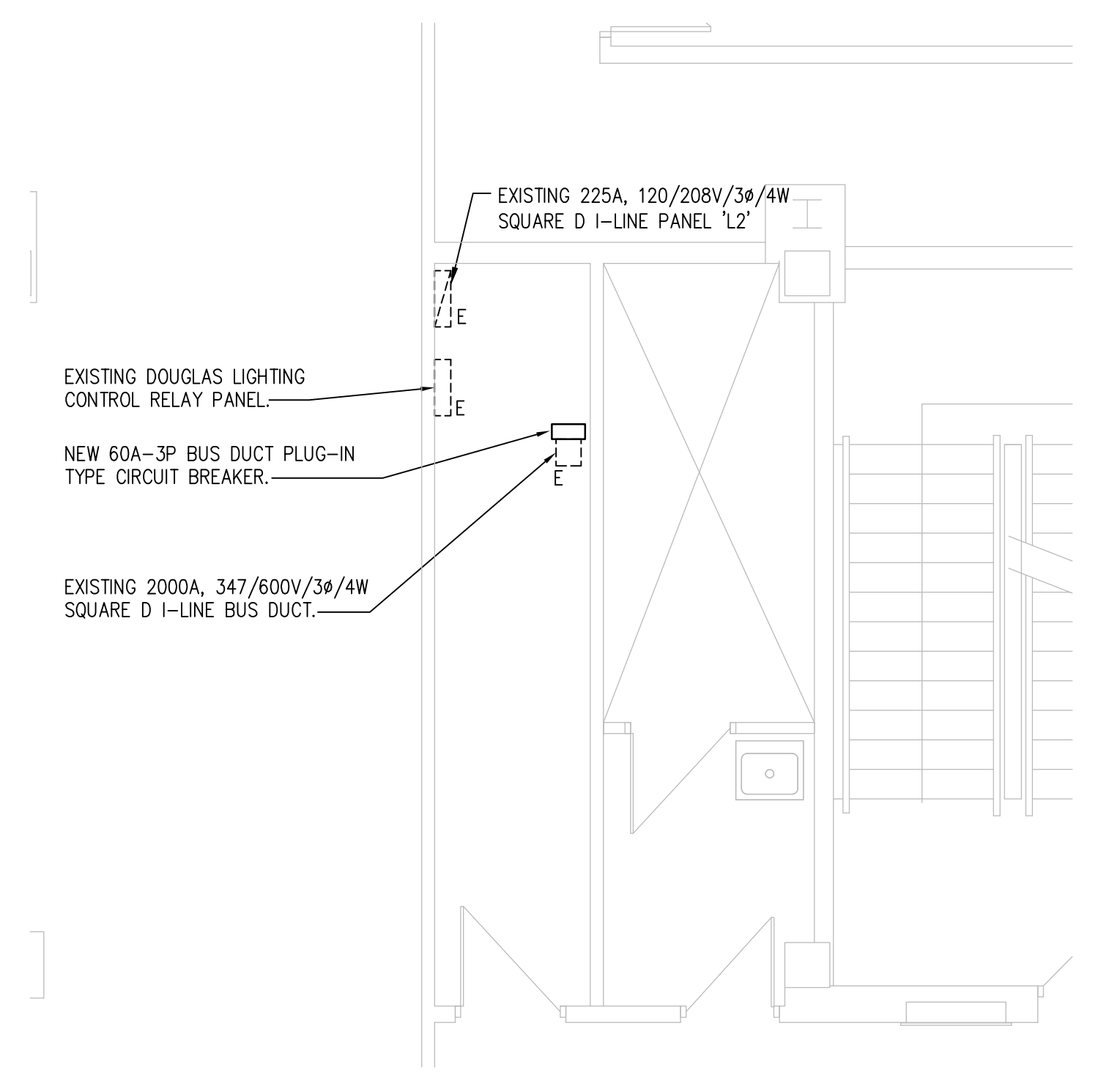
1 SECOND FLOOR NEW POWER PLAN
E5 1:100

NOTES:


- POWER ASSISTED DOOR OPERATOR. WIRE AND CONNECT DOOR BUTTONS TO: POWER OPERATORS - PROVIDE ALL WIRING CONDUIT AND JUNCTION BOXES. COORDINATE ALL WORK WITH DOOR HARDWARE SUPPLIER. CONFIRM ALL REQUIREMENTS WITH DOOR HARDWARE SUPPLIER. CONFIRM LOCATION PUSH BUTTONS WITH ARCHITECTURAL PRIOR TO ROUGHING IN OF CONDUIT. REFER TO COMMUNICATIONS DRAWINGS FOR DETAILS.
- COORDINATE CORING OF SLAB WITH BUILDING MANAGEMENT DEPARTMENTAL REPRESENTATIVE AND MAIN FLOOR TENANT. PROVIDE ALL EQUIPMENT PROTECTION REQUIRED FOR MAIN FLOOR TENANT. ALL COSTS ASSOCIATED WITH CLEAN UP OF MAIN FLOOR AREAS AFFECTED BY THIS WORK TO BE CARRIED AS PART OF CONTRACT. PROVIDE X-RAY OF SLAB PRIOR TO COMMENCEMENT OF WORK. ALLOW FOR AFTER HOURS WORK. REFER TO COMMUNICATIONS FOR FLOOR BOX SPECIFICATIONS.
- MOVEABLE PARTITION WALL SWITCH, CONTROL AND MOTOR. WIRE AND CONNECT SWITCHES TO CONTROLLER. PROVIDE ALL WIRING, CONDUIT AND JUNCTION BOXES. COORDINATE ALL WORK WITH WALL SUPPLIER. CONFIRM ALL WIRING AND OVERCURRENT PROTECTION WITH WALL SUPPLIER PRIOR TO ROUGH-IN. SWITCHES, CONTROLLERS AND MOTORS PROVIDED BY WALL SUPPLIER.




2 EXISTING LARGE SCALE SECOND FLOOR SATELLITE ELECTRICAL ROOM LAYOUT
E5 1:50



3 EXISTING LARGE SCALE SECOND FLOOR MAIN ELECTRICAL ROOM LAYOUT
E5 1:50

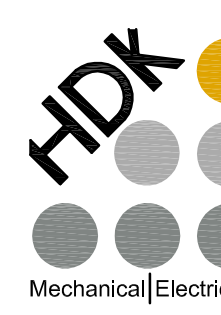


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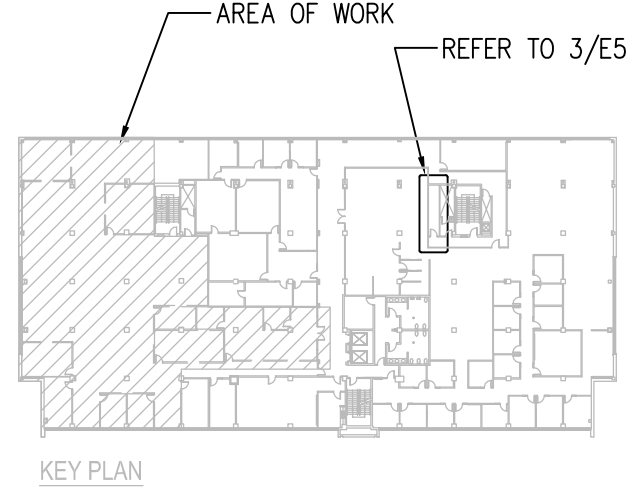


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Western Region
SERVICES IMMOBILIERS
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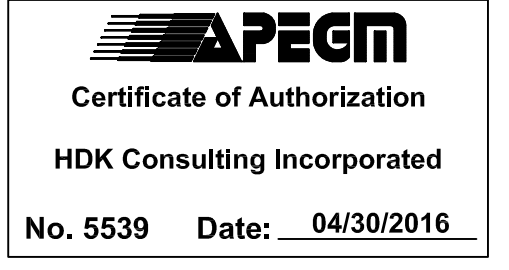


AREA OF WORK
REFER TO 3/E5

KEY PLAN



PROVINCE OF MANITOBA
H.A. CEA CANAS
Member
22882
REGISTERED PROFESSIONAL ENGINEER



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HDK Consulting Incorporated
No. 5539 Date: 04/30/2016

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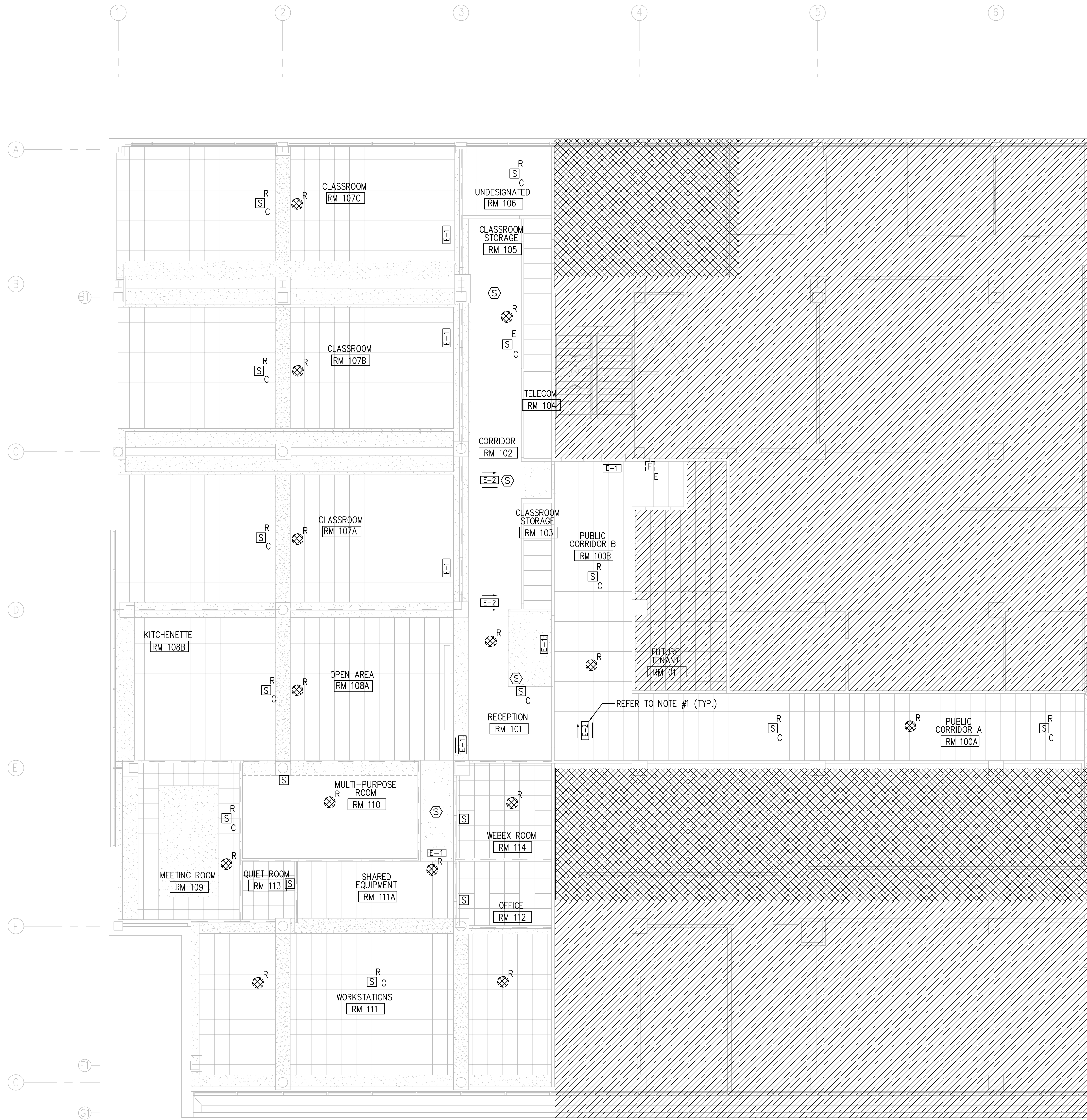
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Drawing title/Titre du dessin
SECOND FLOOR NEW
POWER PLAN AND NOTES

Project No./No. du
projet
R.060508.003

Sheet/Feuille
E5
OF 12

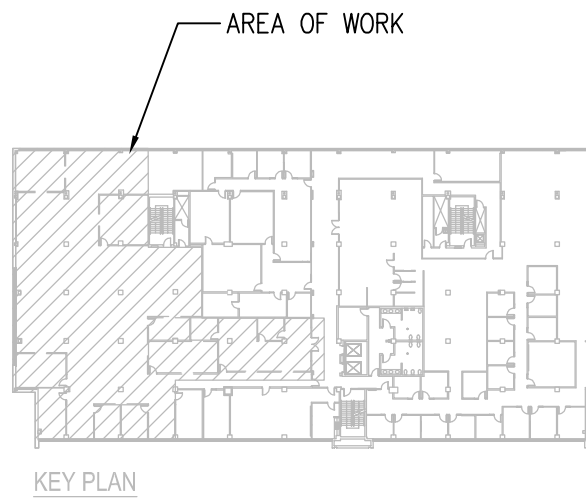
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La Révision
no.
3



1 SECOND FLOOR NEW LIFE SAFETY SYSTEMS PLAN
E6 1:100

NOTES:

1. ALL EGRESS SIGNAGE TO BE WIRED TO EXISTING SECOND FLOOR EXIT SIGN 15A, 347V/1Ø CIRCUIT #13 IN PANEL E100 LOCATED IN BASEMENT ELECTRICAL ROOM. CONFIRM EXISTING ON SITE.
2. ALL FIRE ALARM DEVICES TO BE RE-WIRED TO EXISTING LOCAL AREA FIRE ALARM. INITIATING AND ANNUNCIATING CIRCUITS BACK TO EXISTING NOTIFIER MAIN FIRE ALARM CONTROL PANEL IN BASEMENT ELECTRICAL ROOM.
3. PROVIDE COMPLETE FIRE ALARM VERIFICATION FOR ALL AFFECTED CIRCUITS AND DEVICES.
4. CONFIRM OPERABILITY OF ALL EXISTING FIRE ALARM DEVICES WITHIN AREA OF RENOVATION. REPLACE ALL NON-OPERABLE DEVICES. CONFIRM EXISTING ON SITE.



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Winnipeg
MANITOBA

Project title/Titre du projet
**STANLEY KNOWLES BUILDING
2ND FLOOR - 391 YORK AVENUE
WINNIPEG, MANITOBA**

CSPS WINNIPEG FIT-UP

Approved by/Approuvé par
HUGO CEA CANAS
Designed by/Concept par
PAUL LAPOINTE
Drawn by/Dessiné par
RHODA DE CASTRO
PWGSC Project Manager/Administrateur de Projets TPSGC
JOHN ALIBIN
PWGSC, Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie, TPSGC
Client/client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA
Drawing title/Titre du dessin

SECOND FLOOR NEW LIFE SAFETY SYSTEMS PLAN AND NOTES

Project No./No. du projet R.060508.003	Sheet/Feuille E6 OF 12	Revision no./La Révision no. 3
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LUMINAIRE SCHEDULE


TYPE	MANUFACTURER	CATALOGUE NUMBER	LAMPS	WATTS	LUMINAIRE STYLE	VOLTAGE	COMMENTS	TYPE	MANUFACTURER	CATALOGUE NUMBER	LAMPS	WATTS	LUMINAIRE STYLE	VOLTAGE	COMMENTS
A1	METALUX	14CZ-LD4-44-347V-L835-CD-1	LED 3500K	56.2W	RECESSED TROFFER	347V		H1	PHILIPS LIGHTOLIER	C4L-10-N-X-VB-Z10V-347V/C4L-10-DL-35K-CL-W-VB	LED 3500K	14W	RECESSED DOWNLIGHT (T-BAR)	347V	
	CREE	ZR14-40L-35K-34-10V		44W					CREE	KR4T-SSGC-WF C/W FR-4-92-35K-347V-10V		13W			
	LITHONIA	ALL4-40L-347-EZI-LP835		39W					GOTHAM	EVO-35/07-4AR-MD-LSS-347-EZI-TRW		10.3W			
A2	METALUX	24CZ-LD4-40-347V-L835-CD-1	LED 3500K	44.5W	RECESSED TROFFER	347V		H2	PHILIPS LIGHTOLIER	C4L-10-N-X-VB-Z10V-347V/C4L-10-DL-35K-CL-W-VB	LED 3500K	14W	RECESSED DOWNLIGHT (GWB)	347V	
	CREE	2R24-40L-35K-34-10V		45W					CREE	KR4T-SSGC-WF C/W KR4-9L-35K-347V-10V		13W			
	LITHONIA	2VTL4-40L-ADP-347-EZI-LP835		47W					GOTHAM	EVO-35/07-4AR-MD-LSS-347-EZI-TRW		10.3W			
B3	AXIS	SLLED-B3-SL 80/20-1000-80-35-VL-4-12-AP-347-D-1 C/W RIGID STEM	LED 3500K	147W	RIGID STEM SUSPENDED LINEAR DIRECT/INDIRECT	347V		H3	PHILIPS LIGHTOLIER	C6L-15-N-X-VB-Z10V-347V/C6L-1520-DL-35K-CL-W-VB	LED 3500K	21W	RECESSED DOWNLIGHT (GWB)	347V	
	PEERLESS	BRM9L-HI-SSH-12FT-R4-347-SCT-EZB-LP835-ACG-C110-CSA C/W RIGID STEM		132W					CREE	KR6T-SSGC-WF C/W KR-6-13L-35K-347V-10V		18W			
	A-LIGHT	M1-12-LH-35-3-A-D-T-D C/W RIGID STEM		150W					LITHONIA	LDN6-35/15-L06-AR-347-TRW		26W			
C	AXIS	SLLED-B3-SL100/0-1000-80-35-NO-NO-4-W-347-D-1-CA36	LED 3500K	42W	SUSPENDED INDIRECT (100% UPLIGHT)	347V		J	SSL	UNL-3-28K-WL	LED 4000K		UNDER CABINET LIGHT	120V PLUG IN	
	PEERLESS	BRM1L-HI-SPR-4FT-R4-347-SCT-EZB-LP835-F2/36"-ACG-C210-CSA		88W					LITHONIA	RAZ24-RAZTRANS24 120					
	A-LIGHT	M1-8-LH-35-3-A-D-T-D		100W					WORKRITE	CIG-P-N-27-S					
E1	LUMACELL	LER-450B6L-C860-BA-UNIV	LED	5.5W	SINGLE FACE ENGLISH/FRENCH EGRESS SIGN	120V-347VAC 6-24VDC		K	AXIS	B6RLED-B3-MF-1000-35-50-FL-S16-W-347-D-1-D	LED 3500K	153.6W	RECESSED LINEAR	347V	
	AIMLITE	EXAL-B6L-1-C-ES-BSH-NDC		3.1W					MARK ARCHITECTURAL LIGHTING	S6LF-16FT/8FT-FL-H-35-AD-347-SW		192W			
	BEGHELLI	QR-B6L-ES-L-R-1-M-BA							LEDALITE	3950-L-B-G-L-S-4-16-1-3-E		164W			
E2	LUMACELL	LER-460B6L-C860-BA-UNIV	LED	5.5W	DOUBLE FACE ENGLISH/FRENCH EGRESS SIGN	120V-347V 6-24VDC		L	AXIS	SCD1-B4-750-500-80-35-0.5m-12-W-347-D-1+E(1) C/W RIGID STEM	LED 3500K	136W	RIGID STEM SUSPENDED LINEAR DIRECT/INDIRECT	347V	
	AIMLITE	EXAL-B6L-2-C-ES-BSH-UNVDC		3.1W					ARCHITECTURAL LIGHTING WORKS	LP2UU-S-12-1HP900-3500K-WD-ILED-DIM-10-DHP900-3500K-EXT-DLED-DIM-10-1CKT-EMC-347-1CKT-EMC-WH C/W RIGID STEM		168W			
	BEGHELLI	QR-B6L-ES-L-R-2-M-BA							PINNACLE	EX3B-WET-0-35HO-35-12-MOR-PP36-347-IE-W C/W RIGID STEM					
F	GREEN IMAGE TECH	GS-50-KID-24VDC-NW-150W C/W GIT-P2-4932 + HVG-150-24A	LED 3500K	150W	RECESSED LED FLEX LIGHT	347 VAC TO 24 VDC		NOTES: 1. ALL LUMINAIRES, BALLASTS, LAMPS, ETC. TO BE CSA APPROVED. 2. ALL BALLASTS AND DRIVER CUTSHEETS MUST BE INCLUDED WITH EACH LUMINAIRE SHOP DRAWING. 3. PROVIDE ALL REQUIRED MOUNTING KITS/HARDWARE FOR ALL CEILING/WALL TYPES. 4. ELECTRICAL CONTRACTOR TO SUBMIT ENTIRE INSTALLATION TO MANITOBA HYDRO POWER SMART ON BEHALF OF PWGSC. ENTIRE REBATE TO BE MADE PAYABLE TO PWGSC.							
	SENSO LIGHTING	555-615-500-551-780-100-40-XX		150W											
	ACCLAIM LIGHTING	FLEX3135-FLX777-FLX715		150W											
G1	METALUX	4-SNLED-LD4-41SL-LW-347-L835-CD-1	LED 3500K	41W	STRIP LIGHT	347V									
	LITHONIA	ZL2N-L48-5000LM-ZSD-HVOLT-35K-80CRI-WH		72W											
	PHILIPS	LF-4-FR-41-35-3-LAG		40W											



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Mechanical | Electrical | Communications | Security Engineering



**APEGM**
Certificate of Authorization
HDK Consulting Incorporated
No. 5539 Date: 04/30/2016

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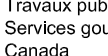




MECHANICAL EQUIPMENT SCHEDULE															
EQUIPMENT			ELECTRICAL CHARACTERISTICS			PACKAGED UNIT	CONTROLS				CIRCUITRY INFORMATION				NOTES
ITEM	DESCRIPTION	LOCATION	HP/kW	AMPS	VOLTS/ø		TYPE	SUPPLIED BY	INSTALLED BY	WIRED BY	PANEL–CCT #	O.C.P.	WIRE	CONDUIT	
P–1	SANITARY PUMP	OPEN AREA ROOM 007	0.50	9.8 FLA	120V/1ø	X	P A C K A G E D				2B4–1	20A–1P	2 #12 AWG RW90 Cu + GRD.	21mm	PROVIDE 5–15R GFCI, TYPE DUPLEX RECEPTACLE
EF–1	EXHAUST FAN	SHARED EQUIPMENT ROOM 001B	FRAC	–	120V/1ø	X	CONTROLLED VIA LIGHTING CONTROL SYSTEM				2B4–2	15A–1P	2 #12 AWG RW90 Cu + GRD.	21mm	
VAV–#	VARIABLE AIR VOLUME TERMINAL BOX	VARIOUS			120V/1ø	X	P A C K A G E D					15A–1P	2 #12 AWG RW90 Cu + GRD.	21mm	
IWH–1	INSTANTANEOUS WATER HEATER	KITCHENETTE	2.4 KW	20 A	120V/1ø	X	P A C K A G E D				2B4–4	30A–1P	2 #10 AWG RW90 Cu + GRD.	21mm	
AC–1	SPLIT AC	CLASSROOM RM 107C		0.28 A	208V/1ø	X	P A C K A G E D				2B4–5,6	15A–2P	2 #12 AWG RW90 Cu + GRD.	21mm	
AC–2	SPLIT AC	CLASSROOM RM 107C		0.28 A	208V/1ø	X	P A C K A G E D				2B4–5,6	15A–2P	2 #12 AWG RW90 Cu + GRD.	21mm	
AC–3	SPLIT AC	CLASSROOM RM 107B		0.28 A	208V/1ø	X	P A C K A G E D				2B4–5,6	15A–2P	2 #12 AWG RW90 Cu + GRD.	21mm	
AC–4	SPLIT AC	CLASSROOM RM 107B		0.28 A	208V/1ø	X	P A C K A G E D				2B4–5,6	15A–2P	2 #12 AWG RW90 Cu + GRD.	21mm	
AC–5	SPLIT AC	CLASSROOM RM 107A		0.28 A	208V/1ø	X	P A C K A G E D				2B4–5,6	15A–2P	2 #12 AWG RW90 Cu + GRD.	21mm	
AC–6	SPLIT AC	CLASSROOM RM 107A		0.28 A	208V/1ø	X	P A C K A G E D				2B4–5,6	15A–2P	2 #12 AWG RW90 Cu + GRD.	21mm	
AC–7	SPLIT AC	MEETING ROOM 109		0.28 A	208V/1ø	X	P A C K A G E D				2B4–7,8	15A–2P	2 #12 AWG RW90 Cu + GRD.	21mm	
AC–8	SPLIT AC	MULTI PURPOSE ROOM 110		0.28 A	208V/1ø	X	P A C K A G E D				2B4–7,8	15A–2P	2 #12 AWG RW90 Cu + GRD.	21mm	
AC–9	SPLIT AC	WEBEX ROOM 114		0.28 A	208V/1ø	X	P A C K A G E D				2B4–7,8	15A–2P	2 #12 AWG RW90 Cu + GRD.	21mm	
AC–10	SPLIT AC	TELECOM ROOM 104		0.81 MCA	208V/1ø	X	P A C K A G E D				WIRED TO CU–2		2 #12 AWG RW90 Cu + GRD.	21mm	
CP–1	CONDENSATE PUMP	CLASSROOM RM 107C	FRAC		120V/1ø	X	P A C K A G E D				2B4–9	15A–1P	2 #12 AWG RW90 Cu + GRD.	21mm	
CP–2	CONDENSATE PUMP	CLASSROOM RM 107C	FRAC		120V/1ø	X	P A C K A G E D				2B4–9	15A–1P	2 #12 AWG RW90 Cu + GRD.	21mm	
CP–3	CONDENSATE PUMP	CLASSROOM RM 107B	FRAC		120V/1ø	X	P A C K A G E D				2B4–9	15A–1P	2 #12 AWG RW90 Cu + GRD.	21mm	
CP–4	CONDENSATE PUMP	CLASSROOM RM 107B	FRAC		120V/1ø	X	P A C K A G E D				2B4–9	15A–1P	2 #12 AWG RW90 Cu + GRD.	21mm	
CP–5	CONDENSATE PUMP	CLASSROOM RM 107A	FRAC		120V/1ø	X	P A C K A G E D				2B4–9	15A–1P	2 #12 AWG RW90 Cu + GRD.	21mm	
CP–6	CONDENSATE PUMP	CLASSROOM RM 107A	FRAC		120V/1ø	X	P A C K A G E D				2B4–9	15A–1P	2 #12 AWG RW90 Cu + GRD.	21mm	
CP–7	CONDENSATE PUMP	MEETING ROOM 109	FRAC		120V/1ø	X	P A C K A G E D				2B4–10	15A–1P	2 #12 AWG RW90 Cu + GRD.	21mm	
CP–8	CONDENSATE PUMP	MULTI PURPOSE ROOM 110	FRAC		120V/1ø	X	P A C K A G E D				2B4–10	15A–1P	2 #12 AWG RW90 Cu + GRD.	21mm	
CP–9	CONDENSATE PUMP	WEBEX ROOM 114	FRAC		120V/1ø	X	P A C K A G E D				2B4–10	15A–1P	2 #12 AWG RW90 Cu + GRD.	21mm	
TF–1	TRANSFER FAN	MEETING ROOM 109	FRAC		120V/1ø		SPEED CONTROL	MECH.	ELEC.	ELEC.	2B4–11	15A–1P	2 #12 AWG RW90 Cu + GRD.	21mm	
TF–2	TRANSFER FAN	MULTI PURPOSE ROOM 110	FRAC		120V/1ø		SPEED CONTROL	MECH.	ELEC.	ELEC.	2B4–12	15A–1P	2 #12 AWG RW90 Cu + GRD.	21mm	
TF–3	TRANSFER FAN	WEBEX ROOM 114	FRAC		120V/1ø		SPEED CONTROL	MECH.	ELEC.	ELEC.	2B4–13	15A–1P	2 #12 AWG RW90 Cu + GRD.	21mm	
CU–1	CONDENSING UNIT	ROOF		36 MCA	208V/3ø	X	P A C K A G E D				2B4–14,15,16	50A–3P	3 #8 AWG RW90 Cu + GRD.	27mm	PROVIDE WEATHERPROOF DISCONNECT
CU–2	CONDENSING UNIT	ROOF		13 MCA	208V/1ø	X	P A C K A G E D				2B4–17,18	15A–2P	2 #12 AWG RW90 Cu + GRD.	21mm	PROVIDE WEATHERPROOF DISCONNECT
DWC–1	DOMESTIC WATER CHILLER	KITCHENETTE		1.2 FLA	120V/1ø	X	P A C K A G E D				2B4–19	15A–1P	2 #12 AWG RW90 Cu + GRD.	21mm	PROVIDE 5–15R GFCI, TYPE DUPLEX RECEPTACLE
NOTES:															
1. DIVISION 26 TO CONFIRM FINAL LOCATION OF ALL EQUIPMENT WITH MECHANICAL DRAWINGS PRIOR TO ROUGHING IN OF CONDUIT. CONFIRM FINAL EQUIPMENT RATINGS WITH MECHANICAL PRIOR TO ROUGHING–IN OF CONDUIT, WIRING AND CIRCUIT BREAKERS. SIZE OVERLOADS ACCORDINGLY. CONFIRM FINAL RATINGS WITH EQUIPMENT NAMEPLATES. INFORM DEPARTMENTAL REPRESENTATIVE OF ANY DISCREPANCIES AND OR DEVIATIONS PRIOR TO ROUGHING IN OF EQUIPMENT.															
2. ALL CONTROL WIRING TO BE BY DIVISION 23 UNLESS OTHERWISE NOTED. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS. ALL CONDUIT REQUIRED FOR CONTROLS TO BE SUPPLIED AND INSTALLED BY DIVISION 26. COORDINATE ALL WORK WITH DIVISION 23.															
3. PROVIDE DISCONNECTS FOR ALL EQUIPMENT AS REQUIRED.															
4. PROVIDE CONTROL TRANSFORMERS FOR ALL VAV'S. CONFIRM LOCATIONS AND QUANTITIES WITH MECHANICAL. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR.															



Public Works and Government Services Canada



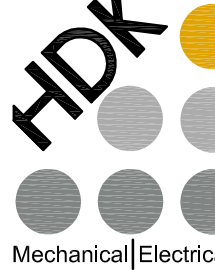
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REAL PROPERTY SERVICES

Western Region

SERVICES IMMOBILIERS

Région de l'ouest



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Mechanical | Electrical | Communications | Security Engineering



PROVINCE OF MANITOBA
H.A. CANAS
REGISTERED PROFESSIONAL ENGINEER
Member 27882



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Certificate of Authorization

HDK Consulting Incorporated

No. 5539 Date: 04/30/2016

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LIGHTING CONTROL SCHEDULE																
ROOM CONTROLLER NUMBER	ROOM NAME & NUMBER	LUMINAIRE		OCCUPANCY SENSOR CEILING		LOCAL WALL CONTROL				PHOTOCELL	0-10V DIMMING	RELAY NUMBER	CCT NUMBER	ZONE OPERATION	EMERGENCY	
		TYPE	QTY.	PIR	DUAL TECH	ON/ OFF	OS	DIM	SCENE CONTROLLER							
RC-1	OFFICE 112	A2	2			X	X					1	L2-17	①		
	QUIET ROOM 113	A1	1			X	X					2	L2-17	①		
RC-2	WORK STATIONS 111 SHARED EQUIPMENT	A2	5	X						X	X	1	L2-17	②		
		A2	3								X	2	L2-17	②		
		A2	5								X	3	L2-17	②		
		A2	2	X							4	L2-17	③			
	WORK STATIONS 111	A2	2	X						X	X	5 (EM)	E100-3	② ④	X	
		A2	1									6 (EM)	E100-3	③ ④	X	
RC-3	KITCHENETTE 108B	L	1	X						X	X	1	L2-17	②		
		L	1								X	2	L2-17	②		
	KITCHENETTE 108B	L	1							X	6	E100-3	② ④	X		
	OPEN AREA 108A	L	3	X								3	L2-17	③		
		F	1									L2-17				
	OPEN AREA 108A	L	2	X								5 (EM)	E100-3	③ ④	X	
RC-4	MEETING ROOM 109	H1	6	X		X		X		X	X	1	L2-17	⑤		
		B3	1			X		X			X	2	L2-17	⑤		
	MPR 110	H2	8	X		X		X			X	3	L2-17	⑤		
		K	1			X		X			X	4	L2-17	⑤		
RC-5	WEBEX 114	A2	2	X		X		X				1	L2-17	⑤		
		H1	6			X		X			2	L2-17	⑤			
	CORRIDOR	H3	2	X								3	L2-17	③		
		H3	1									5 (EM)	E-1003	③ ④	X	
RC-6	RECEPTION 101	H3	4	X								1	L2-16	③		
		F	1										L2-16	③		
	CORRIDOR 102	H3	3	X								2	L2-16	③		
		F	3										L2-16	③		
	CLASSROOM ST. 103	G1	2			X		X				3	L2-16	①		
	TELECOM 104	G1	1			X		X				4	L2-16	①		
	RECEPTION 101	C	2	X								5 (EM)	E100-3	③ ④	X	
	CORRIDOR 102	H3	2	X								6 (EM)	E100-3	③ ④	X	
RC-7	CLASSROOM STORAGE 105	G1	2			X		X				1	L2-16	①		
	UNDESIGNATED 106	A2	2			X		X		X	X	2	L2-16	⑥		
RC-8	CLASSROOM 107C	A1	3	X						X	X	1	L2-16	⑦		
		A1	1								X	2	L2-16	⑧		
		A1	3	X								X	3	L2-16	⑦	
		A1	1								X	4	L2-16	⑧		
		A1	2	X							X	5 (EM)	E100-3	⑧ ④	X	
		A1	2	X							X	6 (EM)	E100-3	⑧ ④	X	
RC-9	CLASSROOM 107B	A1	3	X						X	X	1	L2-16	⑧		
		A1	1								X	2	L2-16	⑧		
		A1	3	X								X	3	L2-16	⑧	
		A1	1								X	4	L2-16	⑧		
		A1	2	X							X	5 (EM)	E100-3	⑧ ④	X	
		A1	2	X							X	6 (EM)	E100-3	⑧ ④	X	
RC-10	CLASSROOM 107A	A1	3	X						X	X	1	L2-16	⑧		
		A1	1								X	2	L2-16	⑧		
		A1	3	X								X	3	L2-16	⑧	
		A1	1								X	4	L2-16	⑧		
		A1	2	X							X	5 (EM)	E100-3	⑧ ④	X	
		A1	2	X							X	6 (EM)	E100-3	⑧ ④	X	

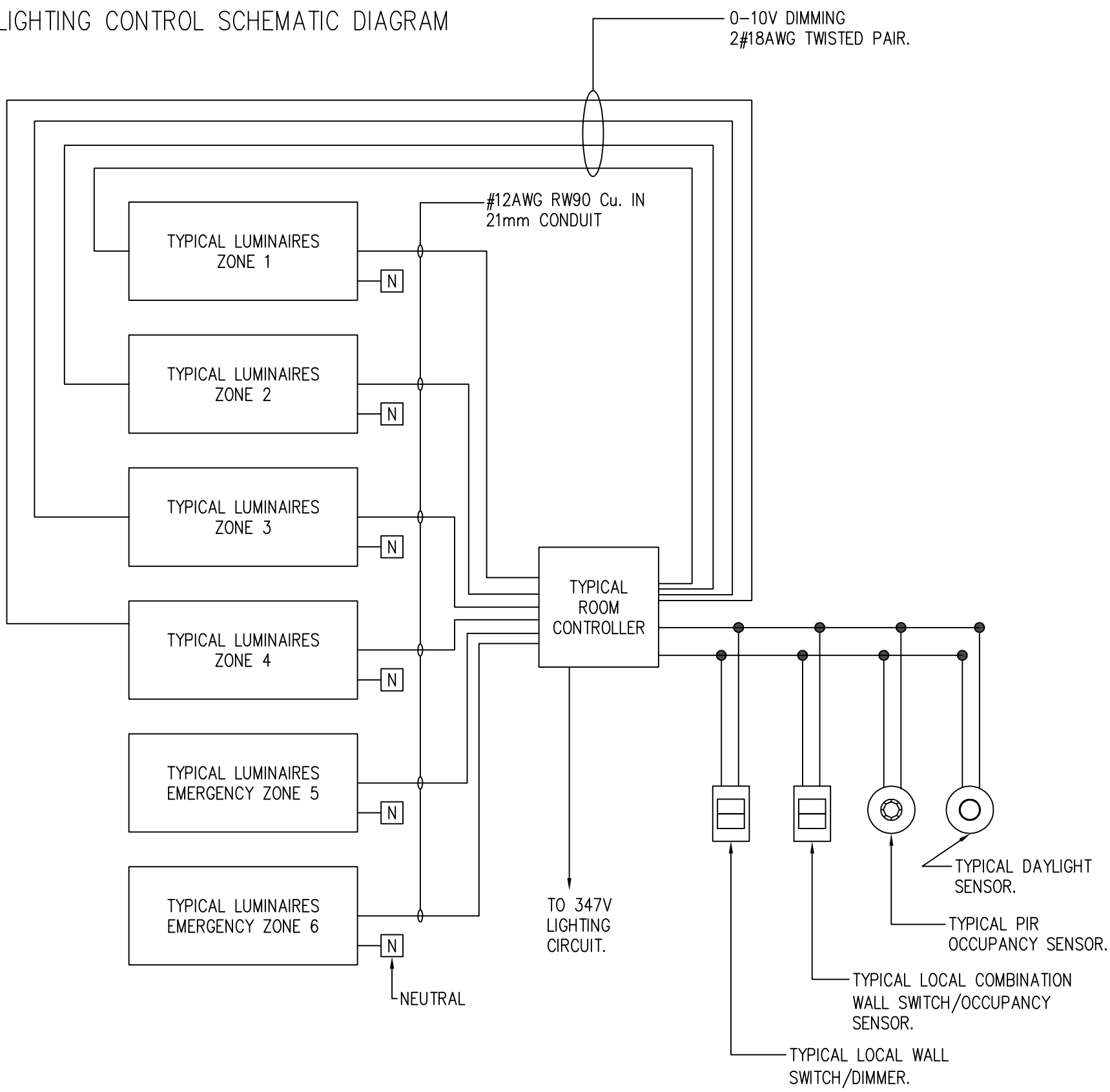
ZONE OPERATION:

- ① MANUAL ON/AUTO OFF CONTROL WITH 15 MINUTE TIME OUT VIA LOCAL WALL BOX COMBINATION OCCUPANCY SENSOR, MANUAL SWITCH CONTROL.
- ② AUTO ON/AUTO OFF CONTROL WITH 15 MINUTE TIME VIA CEILING MOUNTED OCCUPANCY SENSOR C/W ROW DIMMING VIA PHOTOCELL.
- ③ AUTO ON/AUTO OFF CONTROL WITH 15 MINUTE TIME VIA CEILING MOUNTED OCCUPANCY SENSOR.
- ④ EMERGENCY FULL ON UPON LOSS OF POWER, RELAY TO OVERRIDE PREVIOUS STATE REGARDLESS OF CONTROL.
- ⑤ MANUAL ON/MANUAL OFF DIMMING VIA LOCAL COMBINATION WALL SWITCH DIMMER. VACANCY SENSING VIA CEILING MOUNT OCCUPANCY SENSOR.
- ⑥ MANUAL ON/AUTO OFF CONTROL WITH 15 MINUTE TIMEOUT VIA LOCAL COMBINATION MANUAL SWITCH/OCCUPANCY SENSOR. DIMMING VIA CEILING MOUNT PHOTOCELL.
- ⑦ AUTO ON/AUTO OFF/DIMMING VIA LOCAL MULTI-ZONE WALL BOX CONTROLLER. AUTO DIMMING VIA CEILING MOUNT PHOTOCELL.
- ⑧ AUTO ON/AUTO OFF/DIMMING VIA MULTI ZONE WALL BOX CONTROLLER.

NOTES:

1 CONFIRM ALL ZONE OPERATION WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO COMMISSIONING OF SYSTEM.

LIGHTING CONTROL SCHEMATIC DIAGRAM



NOTE:

LIGHTING CONTROL DIAGRAM IS FOR GRAPHICAL REPRESENTATION ONLY. PROVIDE ALL DEVICES, WIRING AND CONNECTIONS REQUIRED FOR A COMPLETE AND FUNCTIONAL LIGHTING CONTROL SYSTEM. COORDINATE ALL WORK WITH LIGHTING CONTROL SYSTEM SUPPLIER. CONFIRM ALL QUANTITIES, LENGTHS, ETC. ON LIGHTING PLANS AND ON SITE.

SYSTEM DESCRIPTION

1. ELECTRICAL CONTRACTOR TO SUPPLY, INSTALL, WIRE AND CONNECT STANDALONE ROOM CONTROLLER TYPE LIGHTING CONTROL SYSTEMS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE ENTIRE INSTALLATION WITH ALL OTHER TRADES.
2. SYSTEM TO CONSISTS OF MULTIPLE LOCALIZED ROOM CONTROLLER C/W INTEGRAL RELAYS AND DIMMING CHANNELS.

PARTS DESCRIPTIONS

ROOM CONTROLLER: LOCALIZED LIGHTING CONTROL UNIT C/W FOUR (4) LIGHTING RELAYS AND FOUR (4) 0-10V DIMMING CHANNELS. EXPANSION PACK TO BE AVAILABLE FOR TWO (2) ADDITIONAL 'EMERGENCY' RELAYS CAPABLE OF SWITCHING EMERGENCY LIGHTING.

ON/OFF SWITCHES: THE ON/OFF SWITCHES COME IN 1 TO 8 BUTTON MODULES AND BE C/W LED INDICATORS TO SHOW STATUS OF THE CONTROLLED ZONES. SWITCHES TO CONNECT DIRECTLY TO THE 2-CONDUCTOR LOW VOLTAGE NON-POLARIZED BUS.

DIMMER SWITCHES: THE DIMMER SWITCHES TO HAVE UP/DOWN BUTTONS TO CONTROL OUTPUTS AND BE C/W LED ALONG EDGE TO INDICATE THE OPERATING LEVEL OF THE CONTROLLED ZONE.

OCCUPANCY SENSOR: OCCUPANCY SENSORS TO BE CEILING MOUNTED PASSIVE INFRARED (PIR) TYPE. SENSOR TO CONNECT DIRECTLY TO THE 2-CONDUCTOR LOW VOLTAGE NON-POLARIZED BUS.

DAYLIGHT SENSOR: DAYLIGHT SENSOR TO BE CEILING MOUNTED INDOOR TYPE. SENSOR TO CONNECT DIRECTLY TO THE 2-CONDUCTOR LOW VOLTAGE NON-POLARIZED BUS. SENSOR TO BE CAPABLE OF MEASURING LIGHT LEVELS FROM 0 TO 65,000 LUX.

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Revision/	Description/Description	Date/Date
3	ISSUED FOR CONSTRUCTION	15/11/20
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PWGSC, Architectural and Engineering Resources Manager/
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LIGHTING CONTROL SCHEDULE

EXISTING PANELBOARD DIRECTORY 2B1															
ITEM	LOAD (kW)	OCP	C	C	ITEM	LOAD	OCP	ITEM	LOAD (kW)	OCP	C	C	ITEM	LOAD	OCP
*REC'S (x5) 107C	1.25	15A	1	22	*		15A	*		15A	43	64	MOVEABLE WALL		20A 3P
*REC'S (x4) 107C	1.00	15A	2	23	*		15A	EXISTING			44	65			
*TV'S (x2) 107C	1.00	15A	3	24	*		15A	*		15A	45	66			
*TV'S (x2) 107B	1.00	15A	4	25	*		15A	EXISTING			46	67	MOVEABLE WALL		20A 3P
*REC'S (x3) 107B	0.75	15A	5	26	*		15A	*		15A	47	68			
*REC'S (x4) 107A, 107B	1.00	15A	6	27	*		15A	*		15A	48	69			
*VIDEO CONFERENCING CAM (x2) 107B	0.20	15A	7	28	*		15A	*		15A	49	70	MOVEABLE WALL		20A 3P
*TV'S (x2) 107A	1.00	15A	8	29	*		15A	*		15A	50	71			
*VIDEO CONFERENCE CAM (x2) 107A	0.20	15A	9	30	*		15A	AV RACK	2.0	20A	51	72			
*TV'S (x2) 107A	1.00	15A	10	31	*		15A	AV RACK	2.0	20A	52	73	MOVEABLE WALL		20A 3P
*REC'S (x4) 107A	1.00	15A	11	32	*		15A	TELECOM RACK	3.0	30A	53	74			
*REC'S (x4) 107A	1.00	15A	12	33	*		15A				54	75			
*REC'S (x4) 107A	1.00	15A	13	34	*		15A				55	76			
EXISTING			14	35	*		15A				56	77			
*WORKSTATION (x1) 106	1.00	15A	15	36	*		15A				57	78			
*REC'S (x4) 102, 104, 106	1.00	15A	16	37	*		15A				58	79			
*REC'S (x3) 101, 102, 103	1.00	15A	17	38	*		15A				59	80			
*TV (x1) 107B	0.50	15A	18	39	*		15A				60	81			
FLOOR BOX 107C	1.00	15A	19	40	EXISTING						61	82			
FLOOR BOX 107B	1.00	15A	20	41	*		15A				62	83			
FLOOR BOX 107A	1.00	15A	21	42	EXISTING						63	84			
NOTES: CIRCUITS DENOTED WITH AN ASTERISK (*) ARE EXISTING CIRCUIT BREAKERS TO BE RE-USED. CONFIRM ON SITE.										RATING: 225A, 120/208V/3ø/4W					

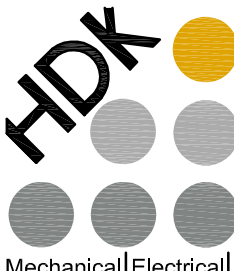
EXISTING PANELBOARD DIRECTORY 2B2															
ITEM	LOAD (kW)	OCP	C	C	ITEM	LOAD	OCP	ITEM	LOAD (kW)	OCP	C	C	ITEM	LOAD	OCP
EXISTING			1	22	EXISTING			*REC'S (x3) 114	0.75	15A	43	64	REC'S (x2)	1.20	20A
EXISTING			2	23	EXISTING			*WEBEX EQ. 114	1.00	15A	44	65	MPR FLOOR BOX	1.00	15A
EXISTING			3	24	EXISTING			EXISTING			45	66	FLOOR BOX RM 108A	1.00	15A
*FRIDGE 108B	1.0	15A	4	25	EXISTING			*WORKSTATION (x1) 112	0.50	15A	46	67	FLOOR BOX RM 108A	1.00	15A
*MICROWAVE 108B	1.20	15A	5	26	EXISTING			REC'S (x2) 112	0.50	15A	47	68	SHREDDER	1.00	15A
*MICROWAVE 108B	1.20	15A	6	27	EXISTING			REC'S (x2) 112		15A	48	69	SHREDDER	1.00	15A
*COFFEEMAKER	1.20	15A	7	28	*REC'S (x4) 109	1.00	15A	REC'S (x2) 112		15A	49	70	RECEPTION	1.00	15A
*REC'S (x4) 108A, 101	1.00	15A	8	29	*TELE. CONFERENCE CABINET 109	1.00	15A	REC'S (x2) 112		15A	50	71			
*REC'S (x4) 108A, 101	1.00	15A	9	30	*REC'S (x2) 113	0.50	15A	REC'S (x2) 112		15A	51	72			
*TV'S (x2) 101, 108A	1.00	15A	10	31	EXISTING			REC'S (x2) 112		15A	52	73			
*DOOR OPERATOR 101	0.50	15A	11	32	TV'S (x2) 110	1.00	15A	EXISTING 112			53	74			
*ACCESS CONTROL PS 101	1.00	15A	12	33	*TV'S (x1) 110	0.50	15A	EXISTING 112			54	75			
EXISTING			13	34	*A/V CABINET 110	1.00	15A	*		15A	55	76			
EXISTING			14	35	*REC'S (x4)	1.00	15A	*		15A	56	77			
EXISTING			15	36	*REC'S (x4)	1.00	15A	*		15A	57	78			
*RECEPTION DESK 101	1.00	15A	16	37	EXISTING			EXISTING			58	79			
EXISTING			17	38	EXISTING			EXISTING			59	80			
*TV (x1) 108B	0.50	15A	18	39	EXISTING			*		15A	60	81			
EXISTING			19	40	EXISTING			EXISTING			61	82			
*REC'S (x3)	0.75	15A	20	41	EXISTING			EXISTING			62	83			
*REC'S (x3)	0.75	15A	21	42	EXISTING			*		15A	63	84			
NOTES: CIRCUITS DENOTED WITH AN ASTERISK (*) ARE EXISTING CIRCUIT BREAKERS TO BE RE-USED. CONFIRM ON SITE.										RATING: 225A, 120/208V/3ø/4W					



Public Works and Government Services Canada


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REAL PROPERTY SERVICES
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SERVICES IMMOBILIERS
Région de l'ouest



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PANELBOARD DIRECTORY - 1

Project No./No. du projet R.060508.003	Sheet/Feuille E10 OF 12	Revision no./La Révision no. 3
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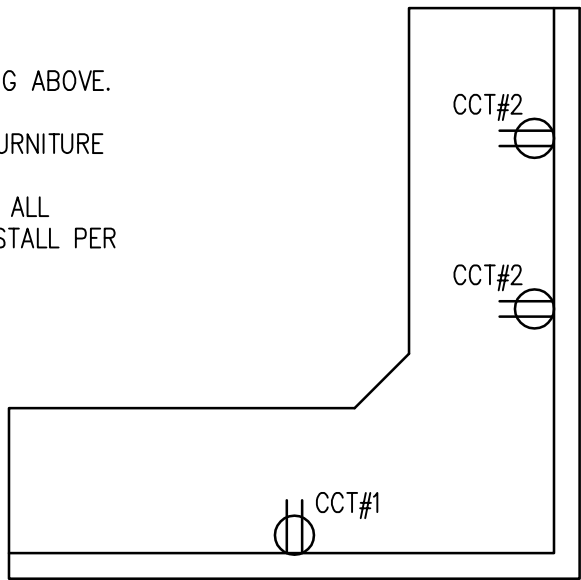
EXISTING PANELBOARD DIRECTORY 2B3															
ITEM	LOAD (kW)	OCP	C	C	ITEM	LOAD	OCP	ITEM	LOAD (kW)	OCP	C	C	ITEM	LOAD	OCP
EXISTING			1	22	EXISTING			*		15A	43	64	FURNITURE	1.00	15A,2P
*REC'S (x5) 111	1.25	15A	2	23	EXISTING			*		15A	44	65		1.00	
*PRINTER 111	1.00	15A	3	24	EXISTING			*		15A	45	66	FURNITURE	1.00	15A,2P
EXISTING			4	25	EXISTING			*		15A	46	67		1.00	
EXISTING			5	26	EXISTING			*		15A	47	68	FURNITURE	1.00	15A,2P
EXISTING			6	27	EXISTING			*		15A	48	69		1.00	
EXISTING			7	28	EXISTING			*		15A	49	70	FURNITURE	1.00	15A,2P
EXISTING			8	29	*FURNITURE	1.00	15A	*		15A	50	71		1.00	
EXISTING			9	30	*FURNITURE	1.00	15A	*		15A	51	72	FURNITURE	1.00	15A,2P
EXISTING			10	31	*FURNITURE	1.00	15A	*		15A	52	73		1.00	
EXISTING			11	32	EXISTING			*		15A	53	74	EXISTING		
EXISTING			12	33	*		15A	*		15A	54	75			
EXISTING			13	34	*		15A	*		15A	55	76			
EXISTING			14	35	*		15A	*		15A	56	77			
EXISTING			15	36	*		15A	*		15A	57	78			
EXISTING			16	37	*		15A	*		15A	58	79			
EXISTING			17	38	*		15A	*		15A	59	80	EXISTING		
EXISTING			18	39	*		15A	*		15A	60	81			
EXISTING			19	40	EXISTING			*		15A	61	82			
*REC'S (x2) 111A	0.50	15A	20	41	EXISTING			*		15A	62	83			
*WORKSTATIONS (x2) 111	1.00	15A	21	42	EXISTING			*		15A	63	84			
NOTES: CIRCUITS DENOTED WITH AN ASTERISK (*) ARE EXISTING CIRCUIT BREAKERS TO BE RE-USED. CONFIRM ON SITE.								RATING: 225A, 120/280V/3ø/4W							

EXISTING PANELBOARD DIRECTORY 'L2'							
ITEM	LOAD (kW)	OCP	C	C	ITEM	LOAD	OCP
EXISTING			1	22	EXISTING		
EXISTING			2	23			
EXISTING			3	24			
EXISTING			4	25			
EXISTING			5	26			
EXISTING			6	27			
EXISTING			7	28			
EXISTING			8	29			
EXISTING			9	30			
EXISTING			10	31			
EXISTING			11	32			
EXISTING			12	33			
EXISTING			13	34			
EXISTING			14	35			
*COMMON AREA LIGHTING	3.192	15A	15	36			
*RM, 107A, 107B, 107C, 106, 105, 104, 102, 101	4.0116	15A	16	37			
*	1.874	15A	17	38			
EXISTING			18	39			
*			19	40			
*			20	41			
*			21	42			
NOTES: CIRCUITS DENOTED WITH AN ASTERISK (*) ARE EXISTING CIRCUIT BREAKERS TO BE RE-USED. CONFIRM ON SITE.					RATING: 225A, 347/600V/3ø/4W		

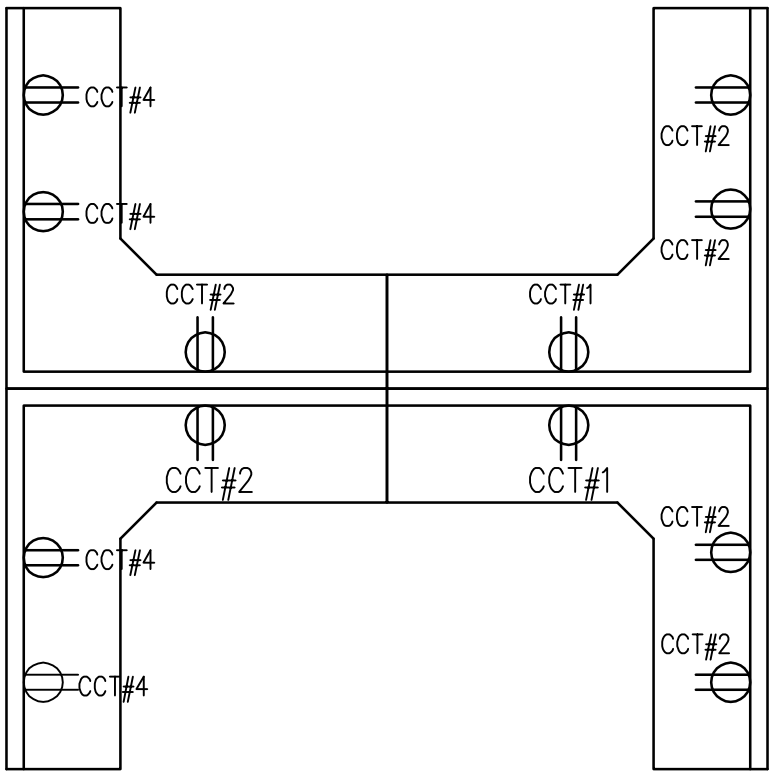
PANELBOARD DIRECTORY 2B4									
ITEM	LOAD (kW)	OCP	C	C	ITEM	LOAD	OCP		
P-1	1.176	20A	1	22	SPARE			15A	
EF-1	0.15	15A	2	23	SPARE			15A	
			3	24	SPARE			15A	
IWH-1	2.4	30A	4	25	SPARE			15A	
AC-1 THRU AC-6	0.175	15A, 2P	5	26	SPARE			15A	
	0.175		6	27	SPACE				
AC-7 THRU AC-9	0.087	15A, 2P	7	28	SPACE				
	0.087		8	29	SPACE				
CP-1 THRU CP-6	0.6	15A	9	30	SPACE				
CP-7 THRU CP-9	0.3	15A	10	31	SPACE				
TF-1	0.15	15A	11	32	SPACE				
TF-2	0.15	15A	12	33	SPACE				
TF-3	0.05	15A	13	34	SPACE				
CU-1	4.32	50A, 3P	14	35	SPACE				
	4.32		15	36	SPACE				
	4.32		16	37	SPACE				
CU-2	1.35	15A, 2P	17	38	SPACE				
	1.35		18	39	SPACE				
DWC-1	0.144	15A	19	40	SPACE				
ROOF TOP REC	1.00	20A	20	41	SPACE				
SPARE		15A	21	42	SPACE				
NOTES:					MOUNTING: RECESSED RATING: 225A, 120/208V/3ø/4W				

CIRCUITING

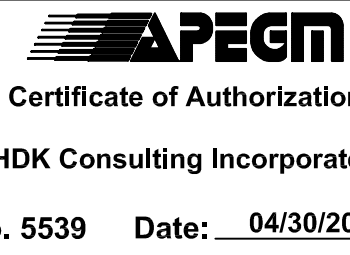
- POWERED FURNITURE TO BE '8-WIRE'. SEE CIRCUITING ABOVE.
- DETAIL SHOWN IS A TYPICAL REPRESENTATION OF FURNITURE WHIP. ELECTRICAL CONTRACTOR TO CONFIRM FINAL CONFIGURATION WITH FURNITURE SUPPLIER. PROVIDE ALL REQUIRED HARDWARE AND LABOUR REQUIRED TO INSTALL PER MANUFACTURER'S RECOMMENDATIONS.



- CIRCUITING
- LINE 1
 - LINE 2
 - NEUTRAL
 - GROUND
 - LINE 3
 - LINE 4
 - NEUTRAL
 - GROUND



1 PRE-WIRED FURNITURE SYSTEM DETAIL
E11 NTS



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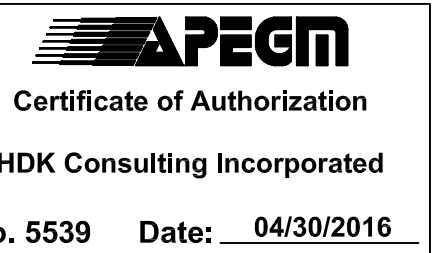
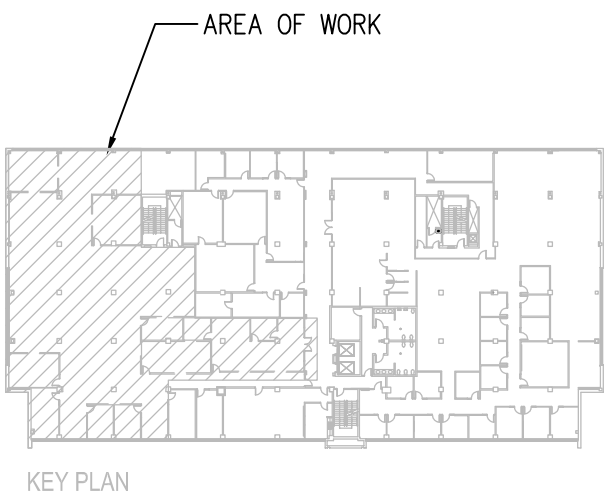
PANELBOARD DIRECTORY - 2

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E11

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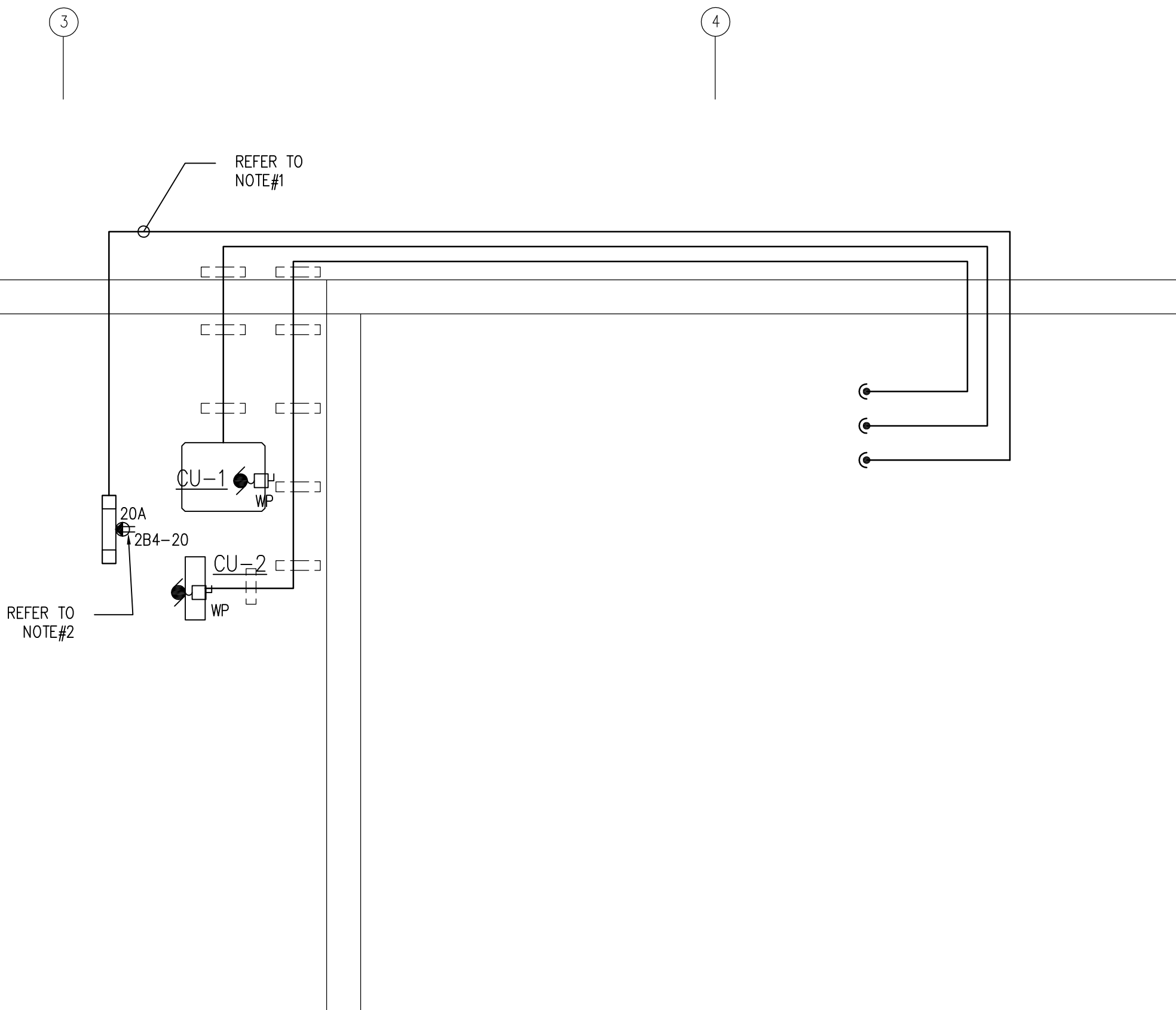
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ROOF PLAN, DETAIL AND EXISTING
SINGLE LINE DISTRIBUTION DIAGRAM

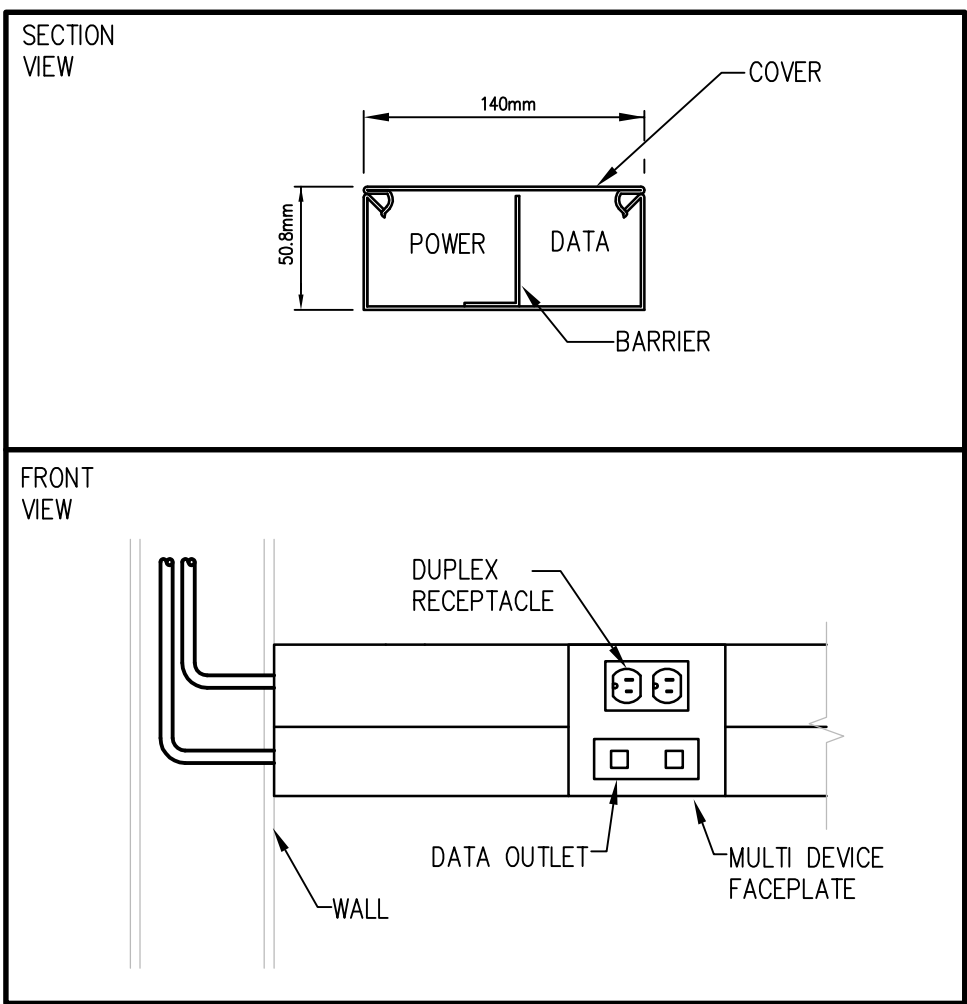
Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.060508.003	E12 OF 12	3



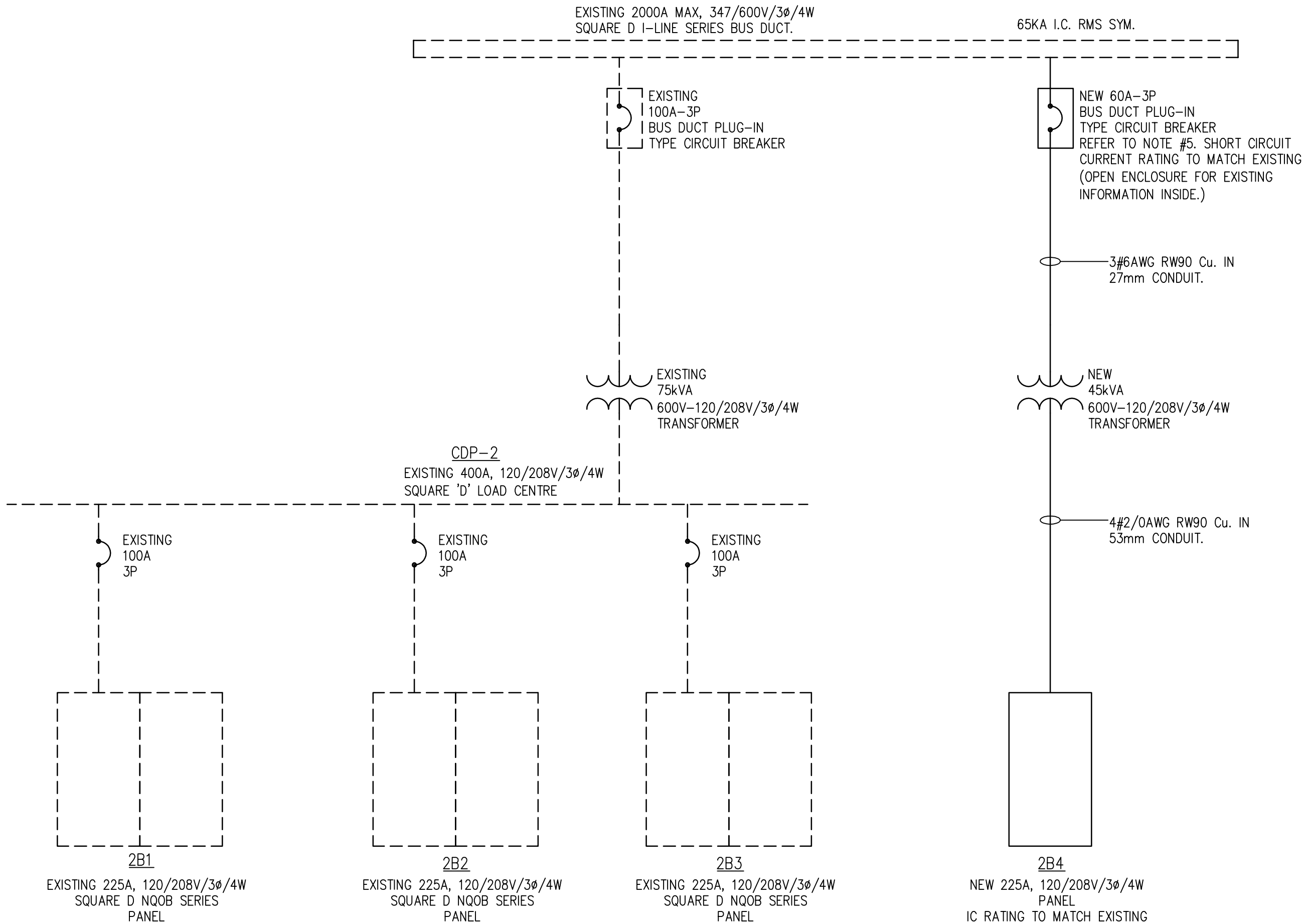
NOTES:

- ALL CABLE/CONDUIT ON ROOF TO RUN ADJACENT TO MECHANICAL PIPING. UTILIZE SAME U-CHANNEL MOUNTING/SLEEPERS AS MECHANICAL PIPING. COORDINATE ROUTINGS AND EQUIPMENT CONNECTION POINTS ON SITE WITH MECHANICAL CONTRACTOR.
- PROVIDE CSA APPROVED 5-20R, T-SLOT, ROOF MOUNTED RECEPTACLE. PROTECTED WITH A GFCI CLASS A TYPE CIRCUIT BREAKER WIRED TO A DEDICATED CIRCUIT. RECEPTACLE TO BE MOUNTED AT A MINIMUM OF 750mm ABOVE FINISHED ROOF AND A MAXIMUM OF 7.5M FROM ASSOCIATED MECHANICAL EQUIPMENT. RECEPTACLE TO BE C/W DIE-CAST ALUMINUM, WHILE IN USE, WET LISTED COVER. RECEPTACLE TO BE MOUNTED TO U-CHANNEL SUPPORTS ON ROOF PITCHPOCKET.

1 ROOF PLAN
E12 1:50



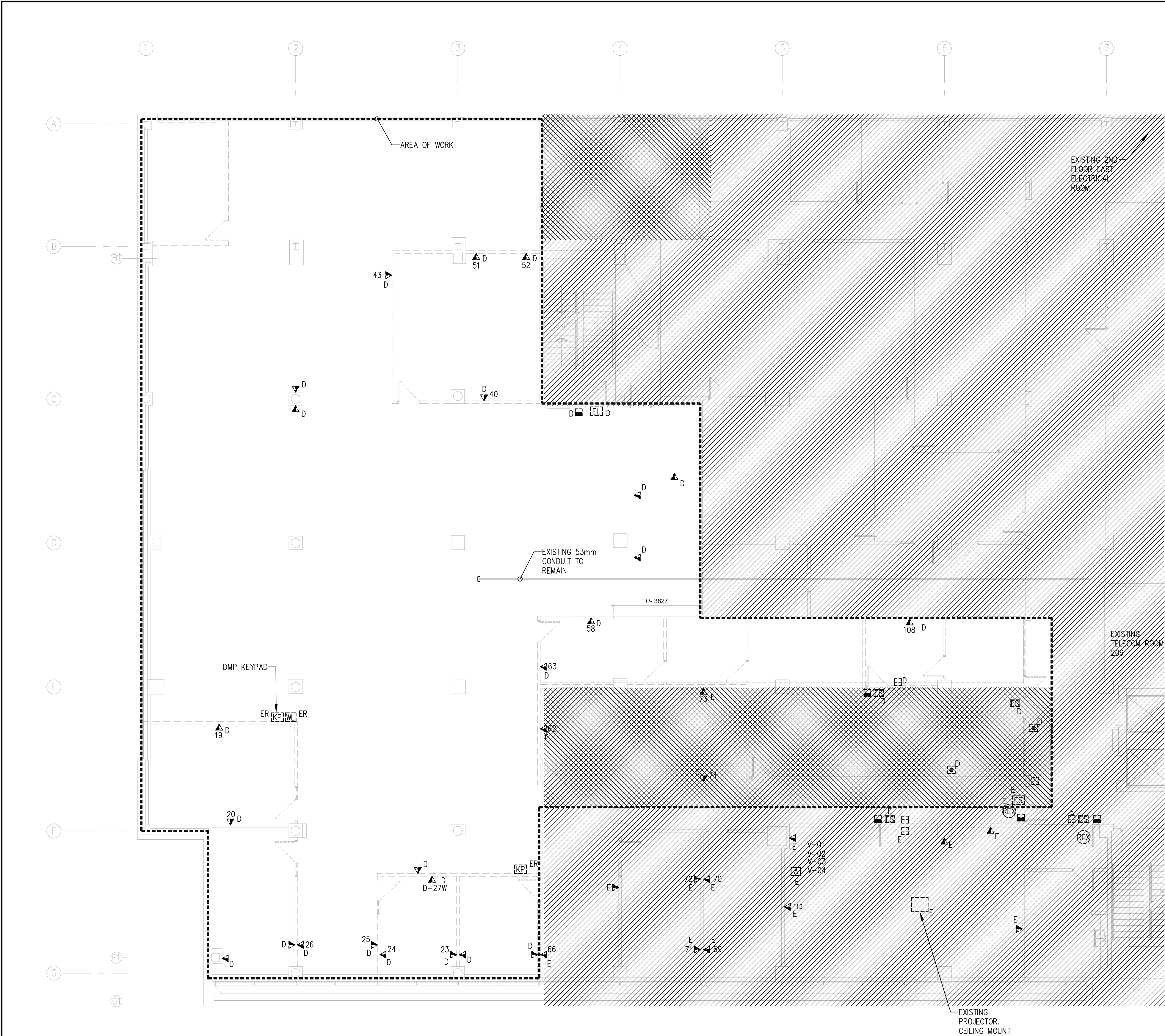
2 2 COMPARTMENT SURFACE MOUNTED RACEWAY DETAIL
E12 NTS



NOTES:

- ELECTRICAL ITEMS SHOWN DASHED ARE EXISTING & SHALL REMAIN OR BE RELOCATED AS NOTED. ITEMS MARKED WITH (D) SHALL BE DISCONNECTED & REMOVED.
- ALL DEVICES IN RENOVATED AREAS THAT MUST BE ALTERED TO HAVE ASSOCIATED WIRE AND CONDUIT EXTENDED, RE-ROUTED AND RE-WIRED TO SUIT NEW INSTALLATION. CONFIRM EXISTING ON SITE.
- PROVIDE NEW DISTRIBUTION EQUIPMENT & INCLUDE ALL COSTS TO MODIFY EXISTING EQUIPMENT TO SUIT NEW ELECTRICAL. PROVIDE 3/4" THICK PLYWOOD BACKBOARD C/W FIRE RETARDANT GREY PAINT FOR ALL NEW EQUIPMENT MOUNTING.
- ELECTRICAL CONTRACTOR TO COORDINATE ALL POWER SHUTDOWNS WITH DEPARTMENTAL REPRESENTATIVE. PROVIDE MINIMUM 48 HOUR NOTICE PRIOR TO ANY SHUTDOWNS. COORDINATE ALL WORK TO MINIMIZE SERVICE INTERRUPTIONS. ALLOW FOR EVENING AND WEEKEND WORK AS REQUIRED.
- EXISTING SPARE 100A-3P BUS DUCT PLUG-IN TYPE CIRCUIT BREAKER TO BE REMOVED AND TURNED OVER TO DEPARTMENTAL REPRESENTATIVE. SUPPLY AND INSTALL NEW 60A-3P BUS DUCT PLUG-IN CIRCUIT BREAKER.

3 EXISTING SINGLE LINE DISTRIBUTION DIAGRAM
E12 NTS



1 SECOND FLOOR TELECOMMUNICATIONS DEMOLITION PLAN
T1 1:100

DEMOLITION NOTES:

1. ALL EXISTING ARE TO BE DEMOLISHED. ALL CABLES AND CONDUIT DEVICES DENOTED BY "D" SHALL BE REMOVED BACK TO SOURCE.
2. EXISTING INTRUSION ALARM KEYPAD AND WIRELESS RECEIVER AND CABLING TO BE RE-USED AND RELOCATED. REFER TO DRAWING T4 DETAIL#3 FOR DEVICE LOCATION.

SYMBOL SCHEDULE:

- [A] AUDIO INPUT OVER CAT 5e CABLE
- [ES] ELECTRIC STRIKE
- [EL] ELECTRIC LATCH RETRACTION
- [KP] SECURITY KEY PAD
- [REX] REQUEST TO EXIT SENSOR
- [E] ACCESS CONTROL CARD READER
- [I] DOOR CONTACT I – DENOTES INTRUSION ALARM
A – DENOTES ACCESS CONTROL
- ▼ VOICE/DATA OUTLET DEVICE BOX LOCATION
- [AV] AUDIO VIDEO DEVICE OUTLET LOCATION
- [V] VOICE/DATA FLOOR BOX
- [D] INTERCOM STATION D – DENOTES DOOR STATION
M – DENOTES MASTER STATION
- ▽ MOTION DETECTOR
- [PS] POWER SUPPLY
- [Hatched Box] BASKET STYLE CABLE TRAY
- [ML] WIRELESS PANIC ALARM RECEIVER
- [D] PUSH BUTTON
D : DENOTES DURESS
H : DENOTES HANDICAPPED
- [1] AUDIO SYSTEM SPEAKERS CEILING MOUNTED
1 DENOTES TYPE 1 SPEAKER
SM : DENOTES SOUND MASKING
- [LCD] TS LCD MONITOR
TS DENOTES TOUCH SCREEN
- [RLY] RELAY
- Y ANTENNA
- [V] VOLUME CONTROL
- [GB] GLASS BREAK SENSOR
- D DENOTES DEVICE TO BE DEMOLISHED
- ER DENOTES DEVICE TO BE RELOCATED
- E DENOTES EXISTING TO REMAIN
- NIC DENOTES EQUIPMENT NOT IN CONTRACT
- R DENOTES RELOCATED EXISTING DEVICE
- IP INTERNET PROTOCOL
- POE POWER OVER ETHERNET
- [DO] DOOR OPERATOR
- [RM] AUDIO ROOM CONTROLLER
- [Hatched Circle] WALL CLOCK OUTLET
- [Hatched Line] CONDUIT DOWN
- [Hatched Line] CONDUIT UP
- [Hatched Line] CONDUIT STUB
- [J] FOR DOOR OPERATOR
- [Hatched Triangle] WIRELESS MICROPHONE
- [Hatched Rectangle] VIDEO SURVEILLANCE CAMERA
- SSC SHARED SERVICES CANADA

PULL BOX SIZES:

- 1 100mm x 100mm x 65mm
- 2 150mm x 150mm x 100mm
- 3 300mm x 300mm x 150mm



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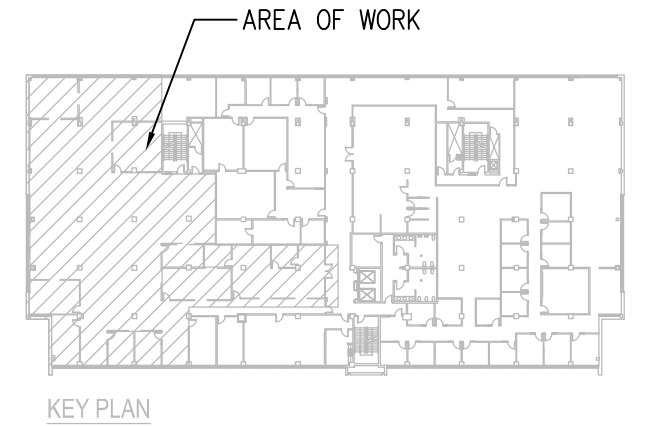


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PROVINCE OF MANITOBA
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Member
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REGISTERED PROFESSIONAL ENGINEER



Certificate of Authorization
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No. 5539 Date: 04/30/2016

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Client/client

CANADA SCHOOL OF
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Winnipeg
MANITOBA

Project title/Titre du projet

STANLEY KNOWLES BUILDING
2ND FLOOR - 391 YORK AVENUE
WINNIPEG, MANITOBA

CSPS WINNIPEG FIT-UP

Approved by/Approuvé par
KELLIE ORR

Designed by/Concepté par
JOSE SANTOS

Drawn by/Dessiné par
RHODA DE CASTRO

PWGSC Project Manager/Administrateur de Projets TPSCG
JOHN ALIBIN

PWGSC, Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie, TPSCG

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Drawing title/Titre du dessin

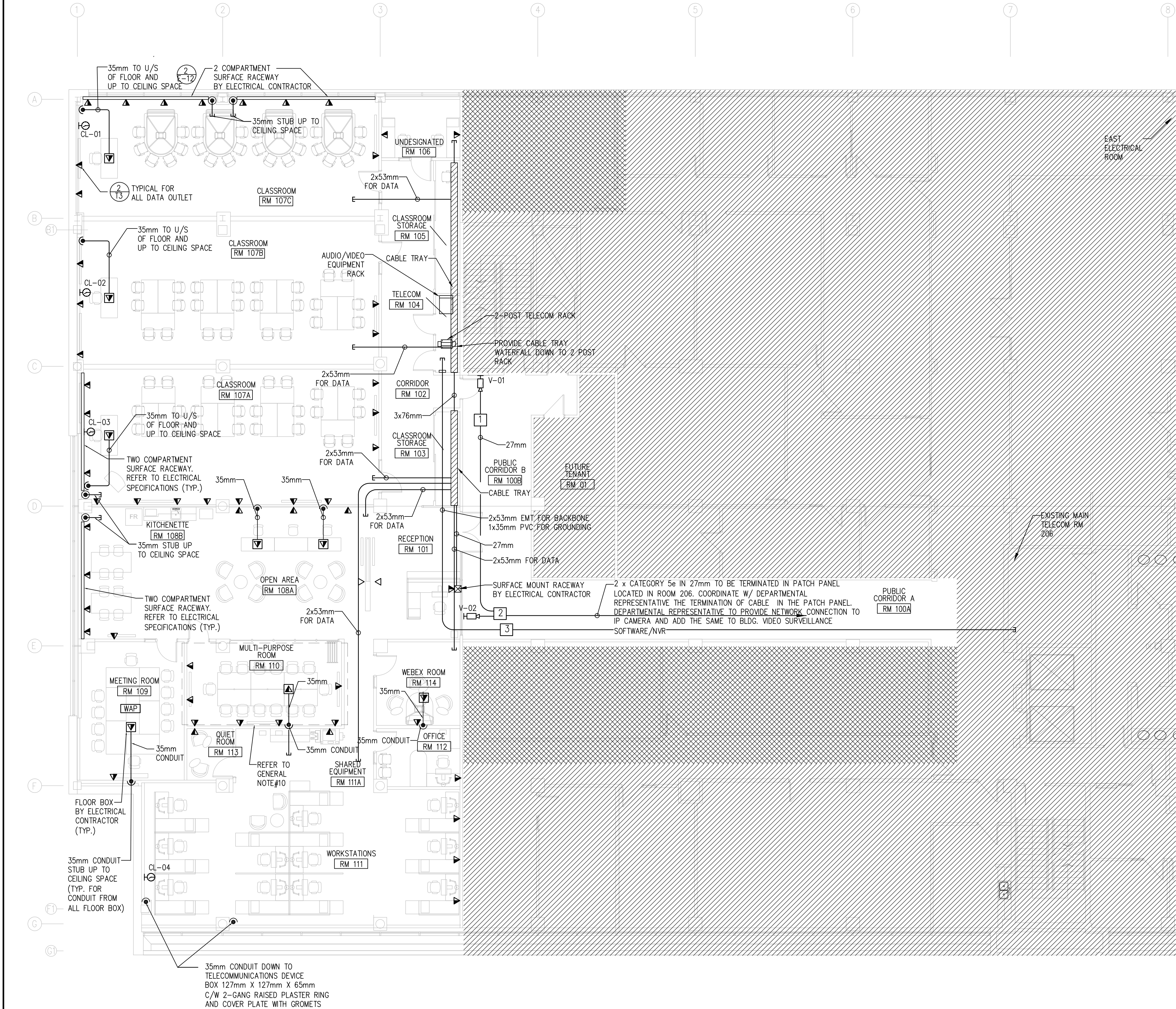
SECOND FLOOR
TELECOMMUNICATIONS
DEMOLITION PLAN AND SYMBOL
SCHEDULE

Project No./No. du
projet
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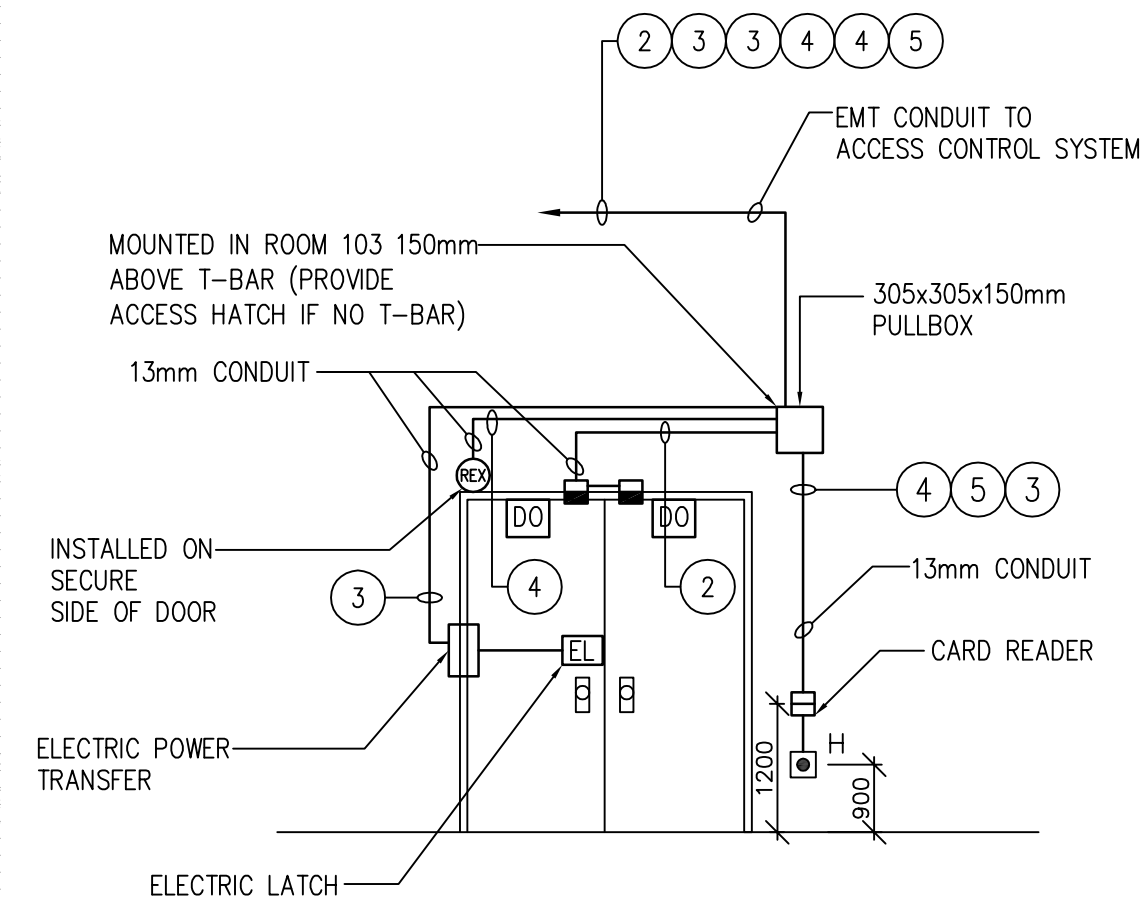
1 SECOND FLOOR NEW TELECOMMUNICATIONS PLAN
T2 1:100

GENERAL NOTES:

1. ALL VOICE/DATA CONDUIT TO BE 27mm UNLESS OTHERWISE NOTED.
2. ALL CONDUIT PENETRATION ON FIRE RATED FLOOR AND WALL TO BE FIRE SEALED.
3. SCAN FLOOR AND WALL AS REQUIRED PRIOR TO CORING.
4. CABLE TRAY TO BE BASKET STYLE 300mm WIDE x 100mm DEEP C/W 1 METALLIC BARRIER.
5. PROVIDE 100 x 100 x 65mm DEVICE BOX C/W SINGLE GANG RAISED PLASTER RING FOR ALL TELECOMMUNICATIONS OUTLET, UNLESS OTHERWISE NOTED, CONDUIT SHALL ORIGINATE FROM DEVICE BOX UP TO ACCESSIBLE CEILING SPACE AND CONTINUE WITH J-HOOK TO CABLE TRAY.
6. ALL CABLES INSTALLED IN THE CEILING SPACE THAT ARE NOT INSTALLED IN CONDUIT TO BE PLENUM RATED.
7. ALL FIRE RATED WALLS AND FLOORS TO BE FIRE SEALED.
8. ALL PENETRATION THROUGH WALL SHALL BE SEALED TO MAINTAIN THE STC RATING OF WALLS.
9. ALL VOICE AND DATA CABLING PATCH PANEL, FACEPLATE AND TERMINATION IS TO BE SUPPLIED AND INSTALLED BY SHARED SERVICES CANADA (SSC) AND IS NOT IN CONTRACT.
10. DATA OUTLET DEVICE BOX LOCATED IN MULTI-PURPOSE ROOM 110 TO BE PROVIDED WITH 27mm EMT CONDUIT AND STUB-OUT TO ACCESSIBLE CEILING SPACE IN OPEN AREA ROOM 108A.
11. PROVIDE FIRE RATED CABLE PASS THROUGH FOR ALL FIRE RATED WALLS BETWEEN CABLE TRAYS LOCATED ON THE INTERIOR AND EXTERIOR OF WALLS OF TELECOM ROOM.
12. CLOCK AND VIDEO SURVEILLANCE SYSTEM TO BE COMPLETE WITH CABLING, RJ-45 JACK, PATCH PANEL AND CABLING TO BE TESTED.

PULL BOX SIZES:

- 1 100mm x 100mm x 65mm
- 2 150mm x 150mm x 100mm
- 3 300mm x 300mm x 150mm



2 DOOR #101 DETAIL
T2 NTS

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AREA OF WORK

KEY PLAN

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WINNIPEG, MANITOBA**

CSPS WINNIPEG FIT-UP

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Designed by/Concepté par
JOSE SANTOS
Drawn by/Dessiné par
RHODA DE CASTRO
PWGSC Project Manager/Administrateur de Projets TPSGC
JOHN ALIBIN
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Ressources Architectural et de Directeur d'ingénierie, TPSGC
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PUBLIC WORKS AND GOVERNMENT SERVICES CANADA
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**SECOND FLOOR
NEW TELECOMMUNICATIONS
PLAN and GENERAL NOTES**

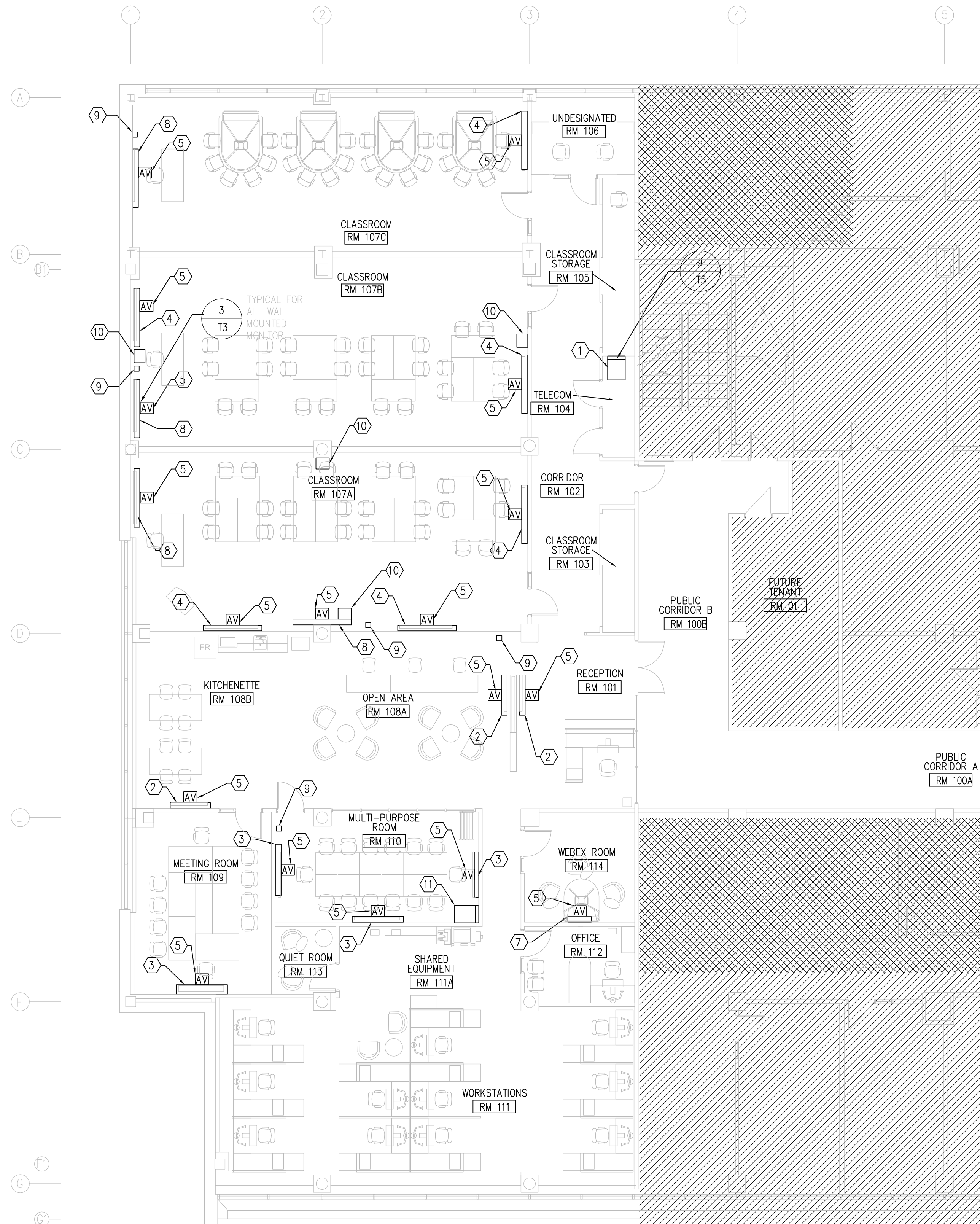
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T2
OF 5

Revision no./La Révision no.
3

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0 10 20 30 40 50 60 70 80 90 100mm

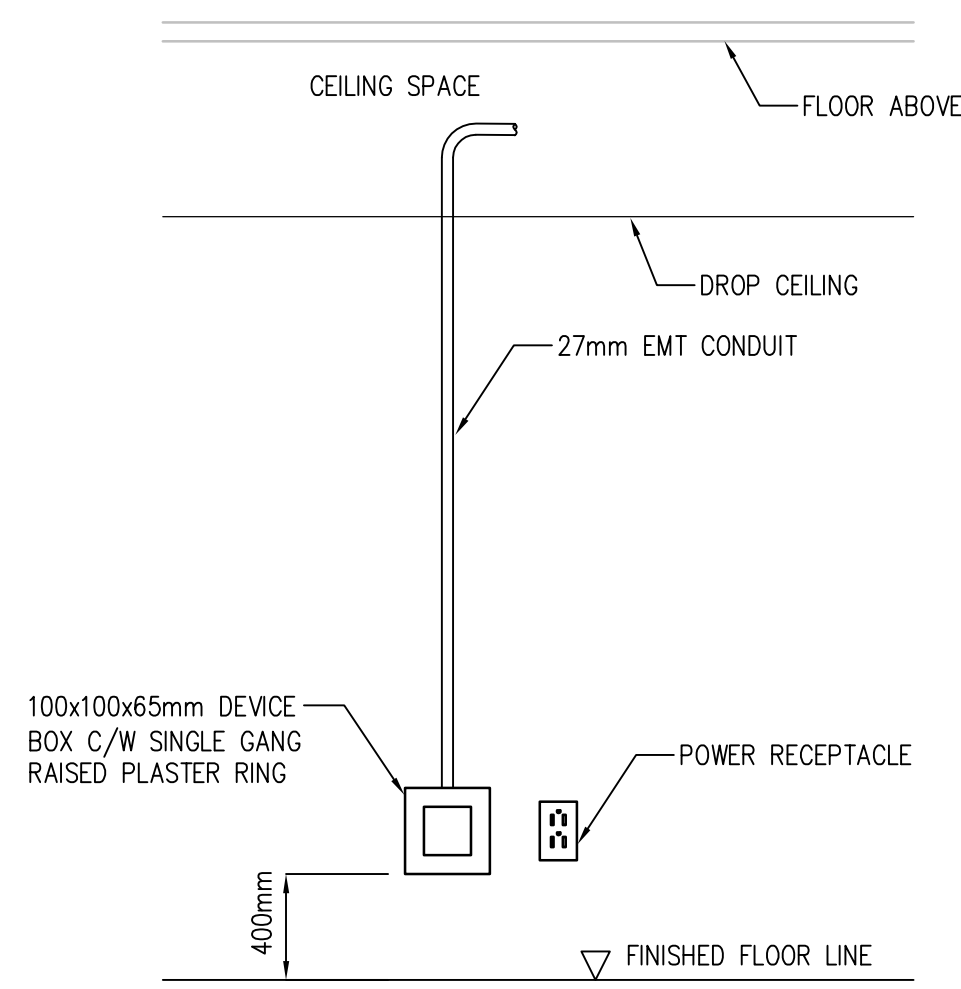


1 SECOND FLOOR AUDIO AND VIDEO SYSTEMS PLAN
T3 1:100

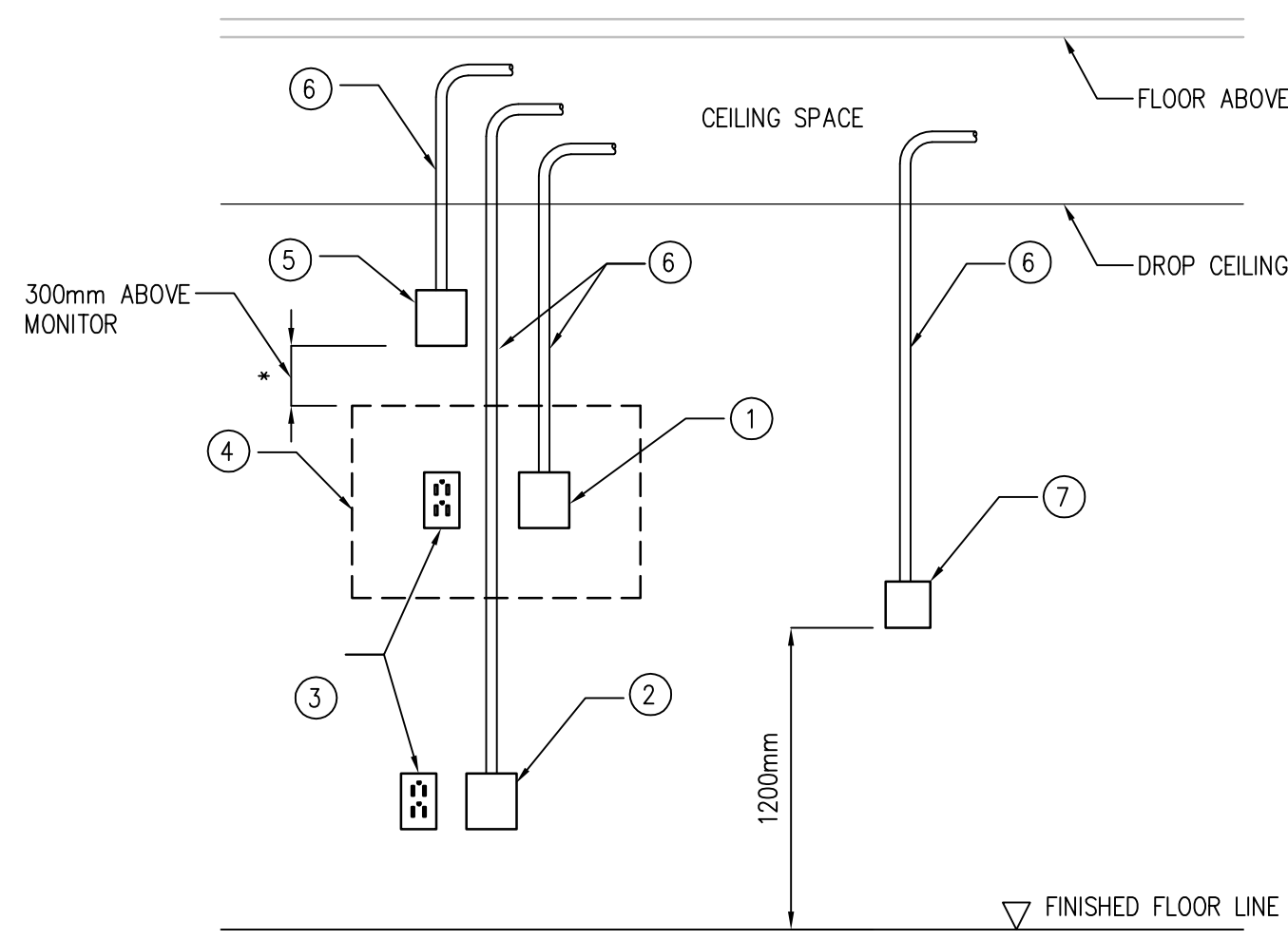
- NOTES:
1. ALL MONITORS TO BE SUPPLIED BY THE DEPARTMENTAL REPRESENTATIVE AND INSTALLED BY ELECTRICAL CONTRACTOR.
 2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND ELEVATION OF MONITORS, AV OUTLET TO BE MOUNTED BEHIND MONITOR.

- KEYNOTES:
- 1 AV EQUIPMENT RACK
 - 2 55" WALL MOUNTED MONITOR (NIC)
 - 3 70" WALL MOUNTED TOUCHSCREEN MONITOR (NIC)
 - 4 80" WALL MOUNTED MONITOR (NIC)
 - 5 AUDIO/VIDEO OUTLET DEVICE BOX LOCATION
 - 6 VIDEO CONFERENCING EQUIPMENT C/W 70" MONITOR (NIC)
 - 7 32" WEBEX MONITOR (NIC)
 - 8 TOUCH SCREEN MONITOR ON MOBILE STAND SUPPLIED AND INSTALLED BY DEPARTMENTAL REPRESENTATIVE (NIC)
 - 9 AUDIO/VIDEO CONTROLLER (DEVICE BOX)
 - 10 100 x 100 x 65 mm DEVICE BOX C/W SINGLE GANG RAISED PLASTER RING MOUNTED @ 2100mm A.F.F C/W 27mm CONDUIT STUB UP TO CEILING SPACE FOR CAMERA.
 - 11 SMALL EQUIPMENT RACK - PROVIDE 100 x 100 x 100mm DEVICE BOX C/W 2x27mm CONDUIT STUB UP TO ACCESSIBLE CEILING SPACE. DEVICE BOX MOUNTED @ 400mm A.F.F ON EAST WALL OF ROOM 110.

- GENERAL NOTES:
1. AUDIO AND VIDEO CONDUITS TO BE 27mm UNLESS OTHERWISE NOTED.
 2. ALL CONDUIT PENETRATION ON FIRE RATED WALL AND FLOOR TO BE FIRE SEALED.
 3. PROVIDE 127mm X 127mm X 73mm DEVICE BOX C/W SINGLE GANG OR DOUBLE GANG PLASTERING AS APPLICABLE AND 27mm CONDUIT UP TO ACCESSIBLE CEILING SPACE FOR ALL AUDIO/VIDEO OUTLET LOCATIONS.
 4. AUDIO/VIDEO EQUIPMENT, CABLING AND DEVICES WILL BE DONE BY CSPS AND IS OUTSIDE THE SCOPE OF WORK.

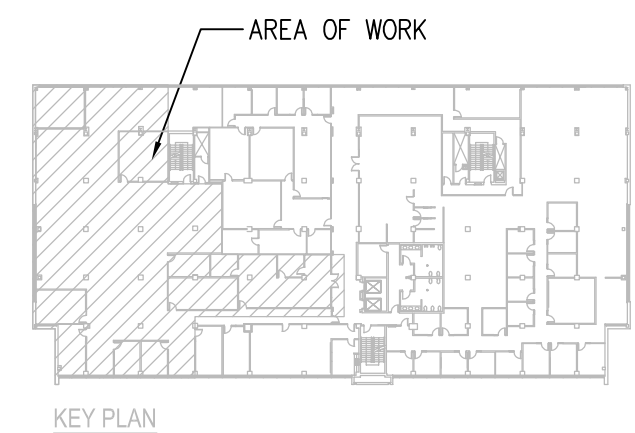


2 TYPICAL DEVICE BOX AND CONDUIT FOR DATA OUTLET
T3 NTS



- KEY NOTES
- 1 100x100x65mm DEVICE BOX C/W SINGLE GANG RAISED PLASTER RING MOUNTED @1830mm A.F.F BESIDE POWER OUTLET BEHIND MONITOR FOR VIDEO MONITOR
 - 2 100x100x65mm DEVICE BOX C/W SINGLE GANG RAISED PLASTER RING MOUNTED @400mm A.F.F OR 300mm ABOVE THE FLAT FORM BESIDE POWER OUTLET
 - 3 POWER RECEPTACLE
 - 4 WALL MOUNTED FLAT PANEL DISPLAY (NIC)
 - 5 100x100x65mm DEVICE BOX C/W SINGLE GANG RAISED PLASTER RING FOR WALL MOUNTED CLOCK. REFER TO DRAWING T2 FOR CLOCK LOCATION.
 - 6 27mm EMT CONDUIT
 - 7 FOR TOUCH PANEL

3 TYPICAL DEVICE BOX AND CONDUIT FOR AUDIO AND VIDEO SYSTEM
T3 NTS



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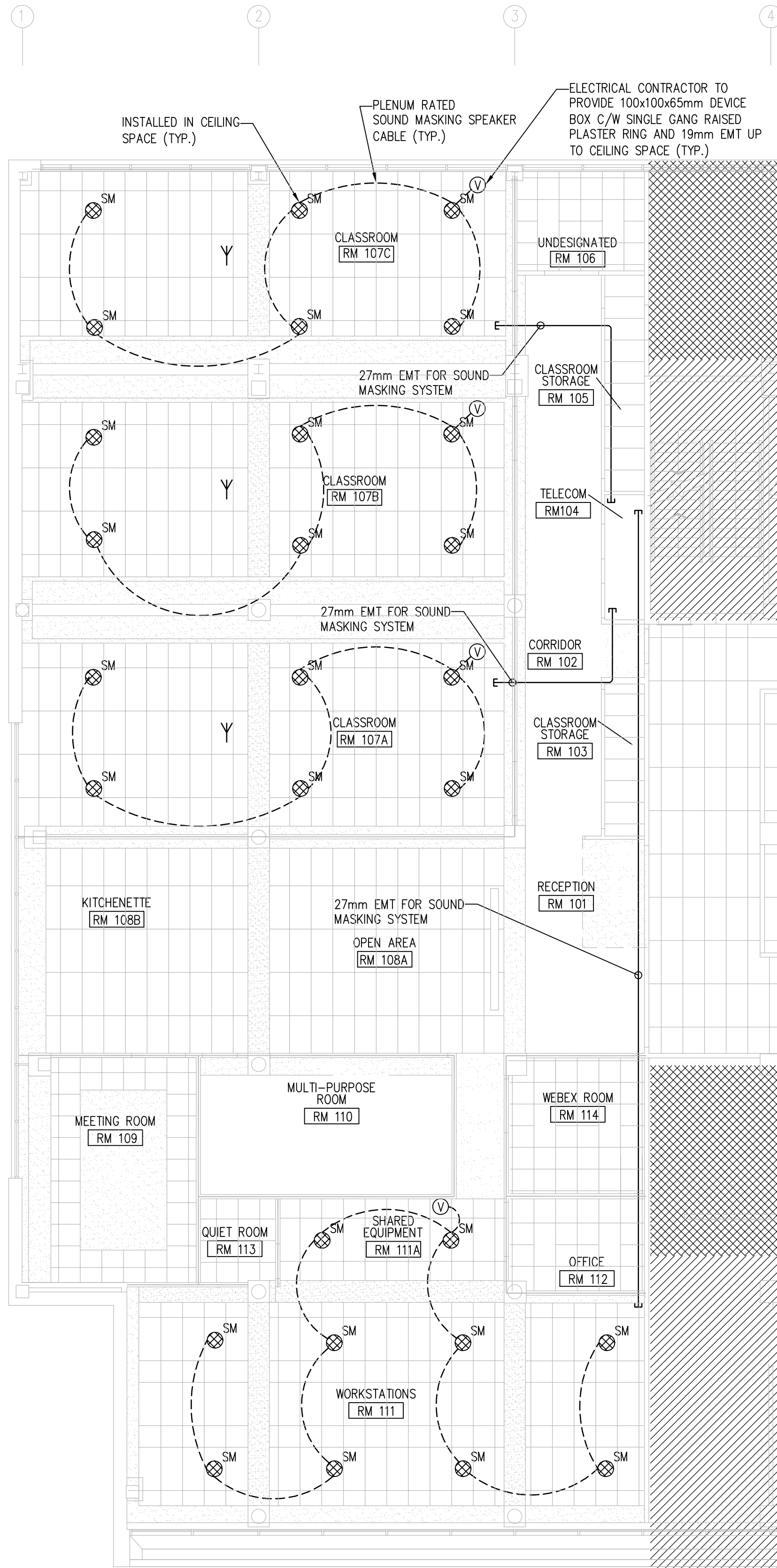
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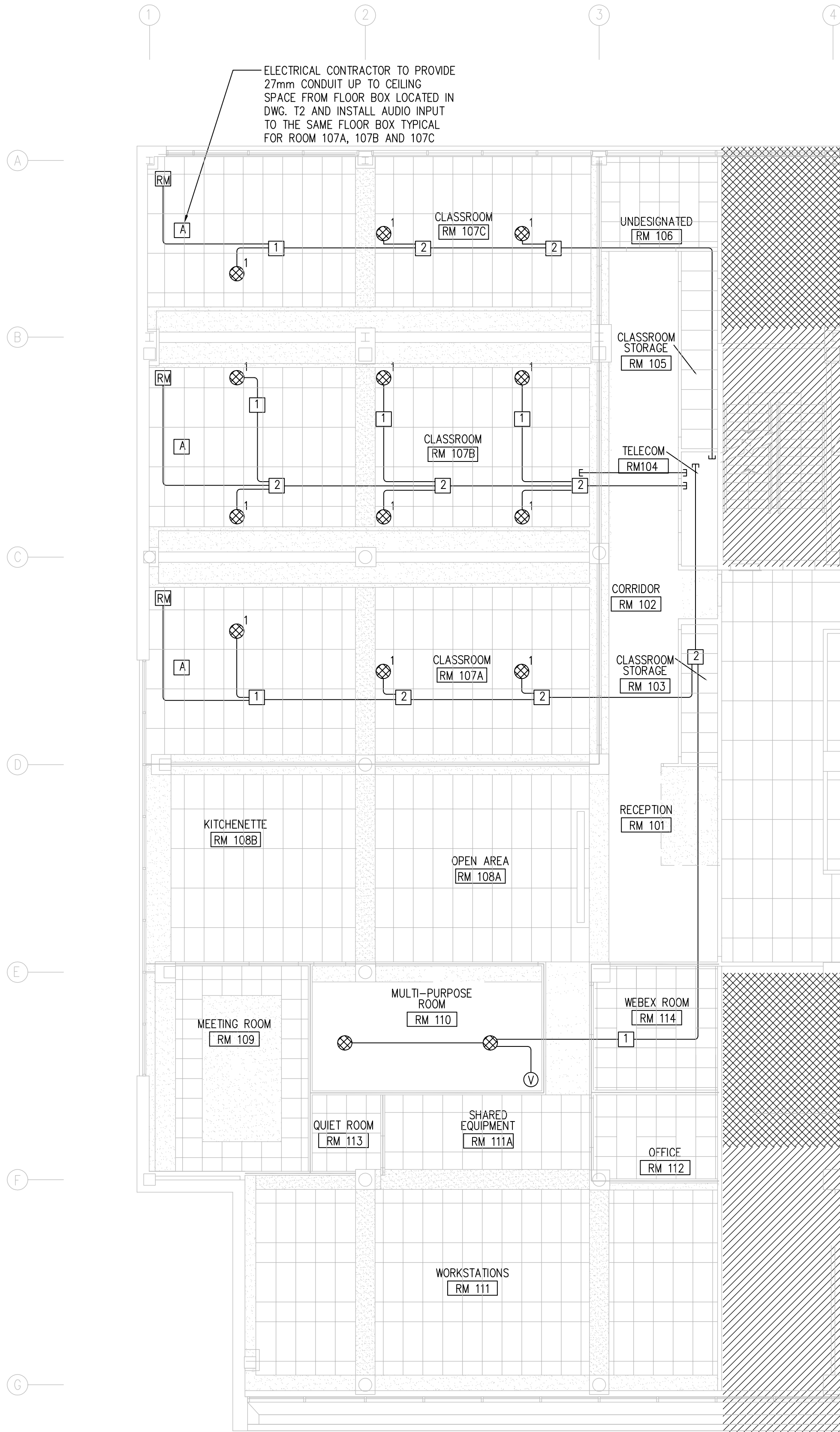
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SECOND FLOOR AUDIO AND VIDEO SYSTEMS PLAN

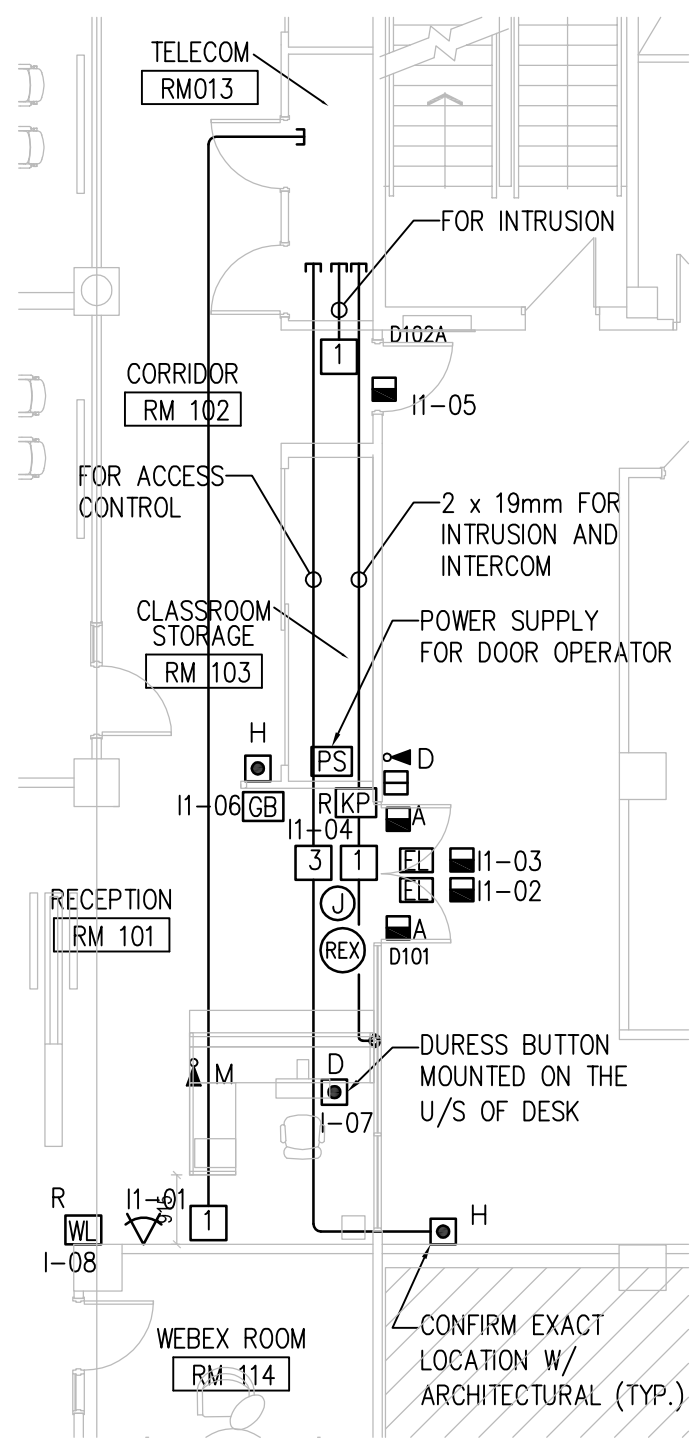


1 SECOND FLOOR SOUNDMASKING SYSTEM
T4 1:100



2 SECOND FLOOR AUDIO SYSTEM
T4 1:100

- GENERAL NOTES:
- ALL P.A. CONDUITS TO BE 21mm UNLESS OTHERWISE NOTED.
 - USE 19mm FLEX CONDUIT FROM PULL BOX TO SPEAKER BACKBOX FOR ALL SPEAKERS THAT ARE LOCATED IN T-BAR CEILING.
 - COORDINATE LOCATION OF ALL SPEAKERS ON SITE WITH ELECTRICAL AND MECHANICAL CONTRACTORS.
 - ALL EXPOSED CABLES LOCATED IN THE CEILING SPACE SHALL BE FT6 RATED.



- NOTES:
- PULL BOX #1, #3 AND POWER SUPPLY TO BE MOUNTED IN CLASSROOM STORAGE ROOM 103.

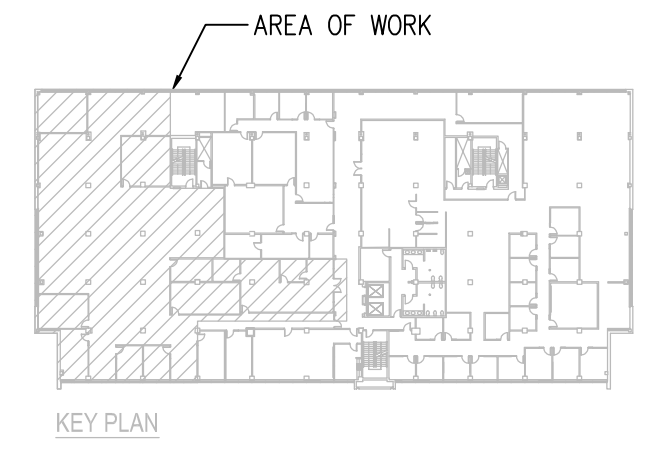
3 SECOND FLOOR INTRUSION AND ACCESS CONTROL SYSTEM
T4 1:100

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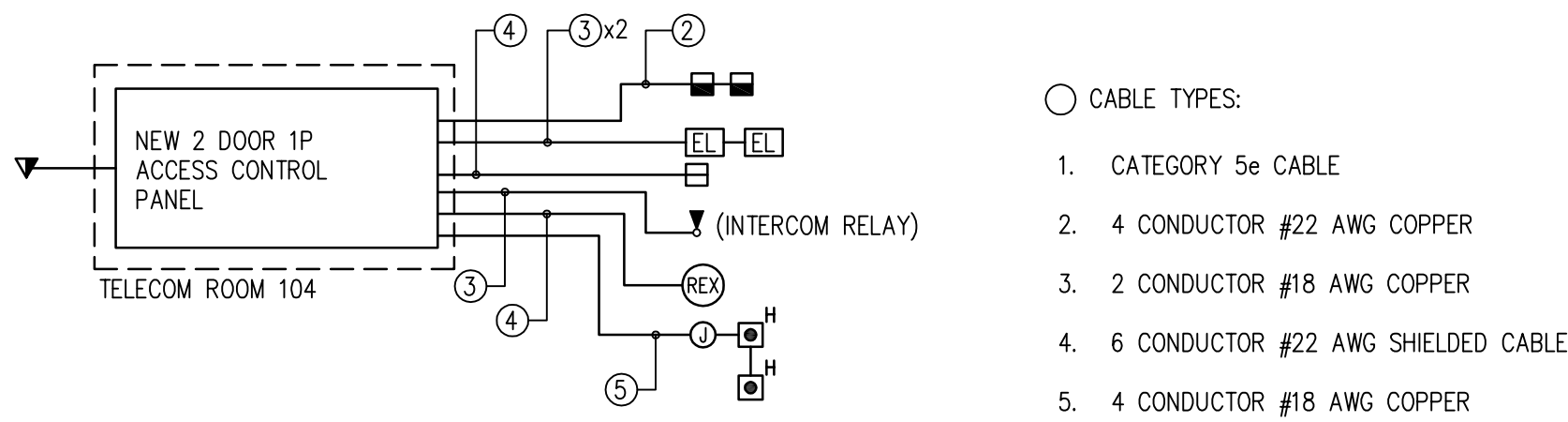
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SECOND FLOOR SOUNDMASKING,
INTRUSION AND ACCESS CONTROL
SYSTEM

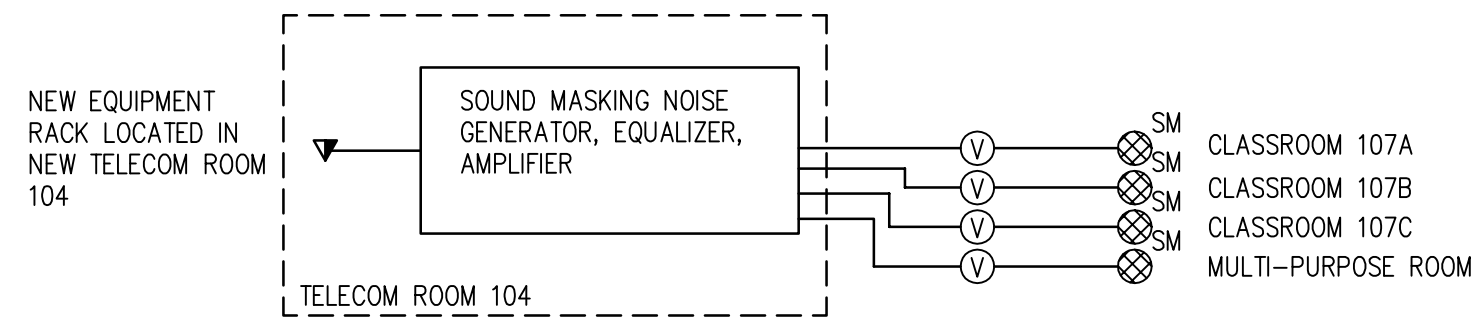
Project No./No. du projet R.060508.003	Sheet/Feuille T4 OF 5	Revision no./La Révision no. 3
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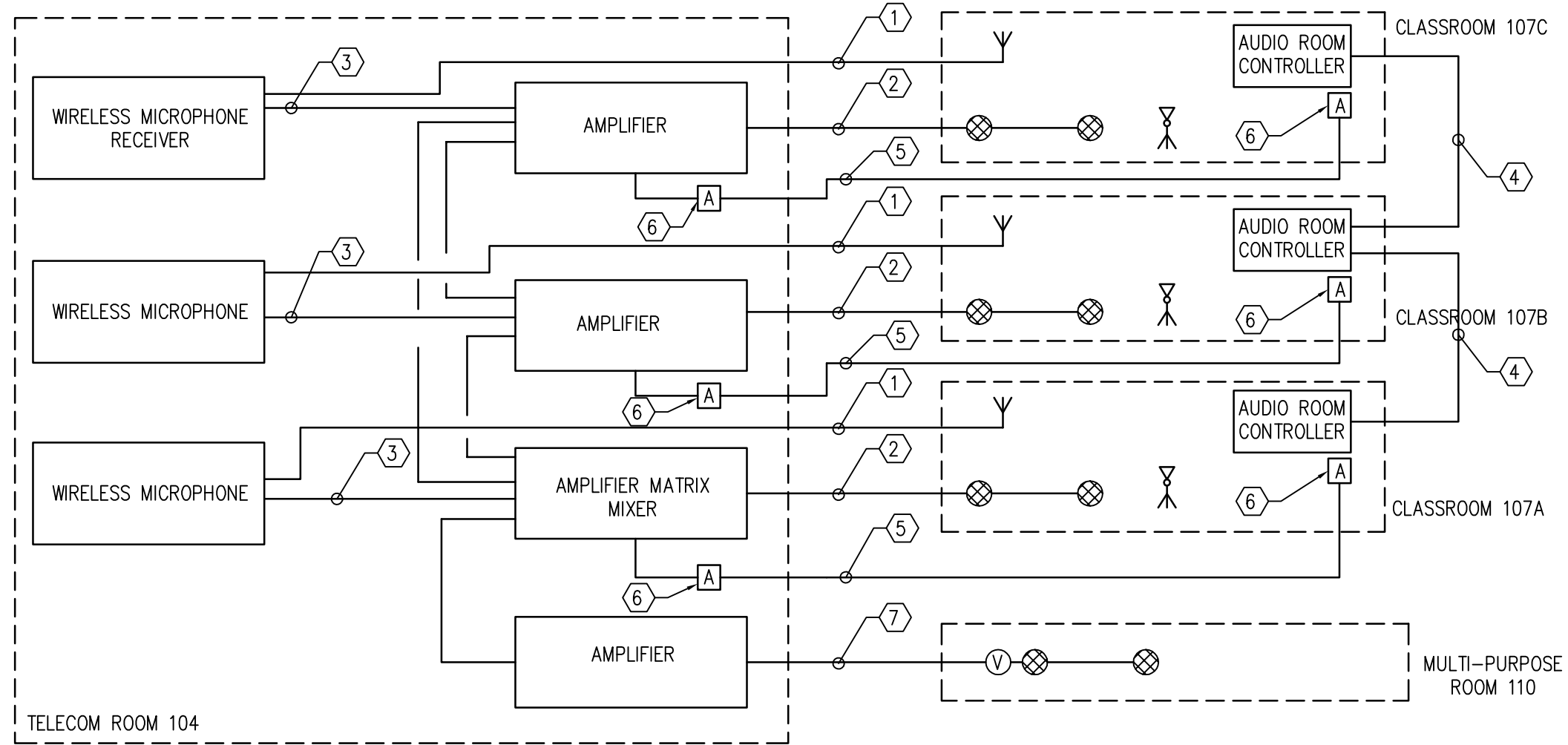
- NOTE:
- INTERCOM RELAY TO BE CONNECTED TO ACCESS CONTROL PANEL FOR REMOTE RELEASE OF ELECTRIC STRIKE/ELECTRIC LATCH.
 - CONTRACTOR TO PROVIDE DATA OUTLET. TERMINATE ONE END ON FACEPLATE AND THE OTHER END ON PATCH PANEL.
 - EL TO BE SUPPLIED AND INSTALLED BY DOOR HARDWARE SUPPLIER C/W POWER SUPPLY.
 - DATA CONNECTION TO ACCESS CONTROL PANEL BY SSC.

1 ACCESS CONTROL SINGLE LINE DIAGRAM
T5 NTS

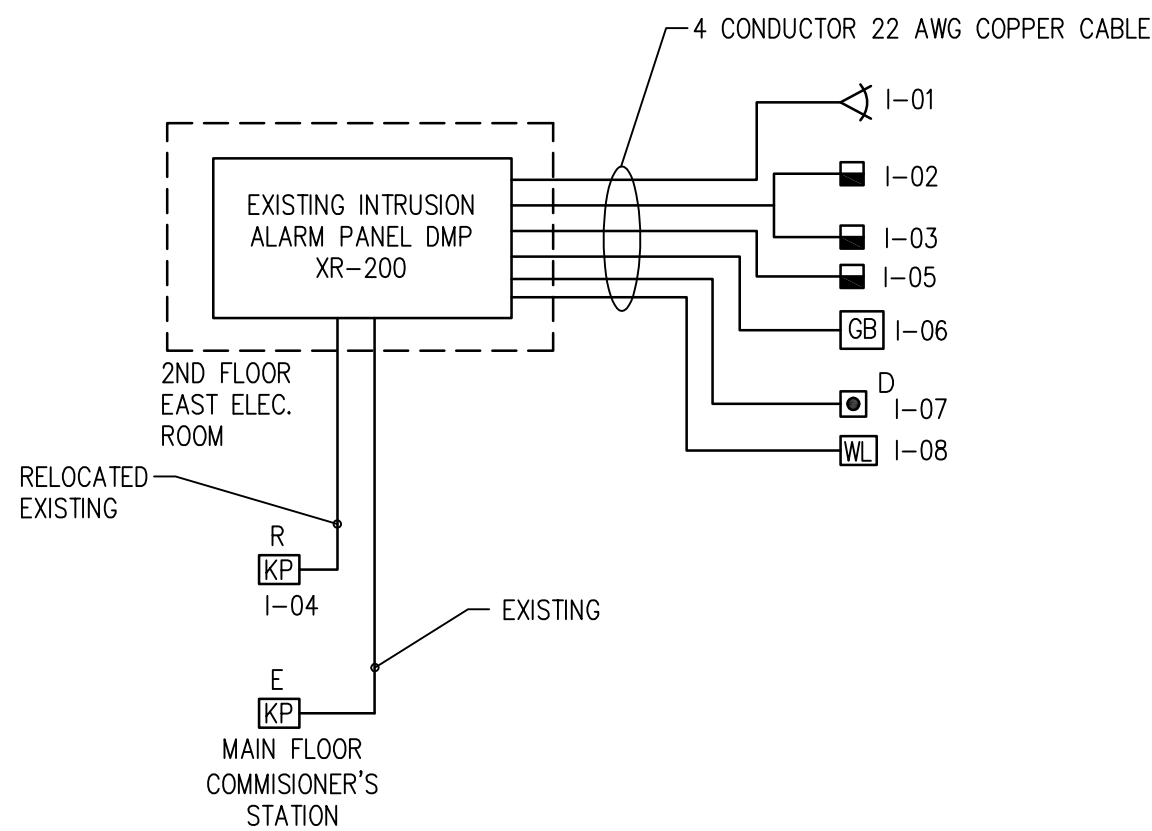


- NOTES:
- CABLE TYPE, WIRING CONFIGURATION AND SOUND MASKING DEVICES WILL BE DEPENDENT ON THE SOUND MASKING TECHNOLOGY. CONTRACTOR TO PROVIDE ALL WIRING, EQUIPMENT, DEVICES AND ANCILLARY FOR A COMPLETE AND OPERATIONAL SOUND MASKING SYSTEM.
 - ALL EXPOSED CABLING LOCATED IN THE CEILING SPACE TO BE FT6 RATED.
 - DATA CONNECTION TO SOUNDMASKING EQUIPMENT BY SSC.

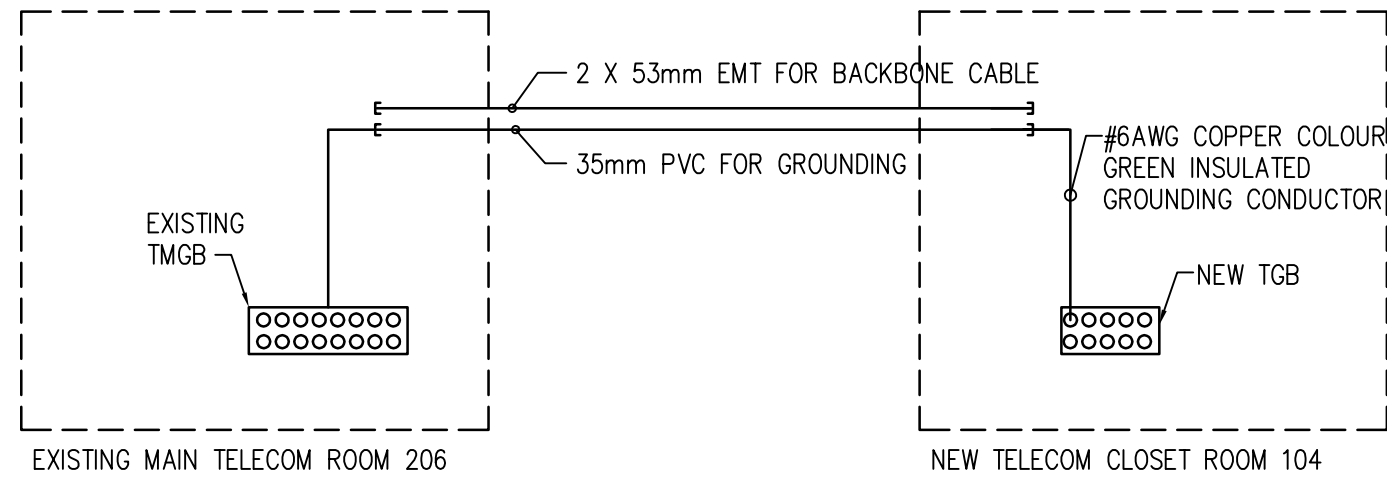
4 SOUND MASKING SINGLE LINE DIAGRAM
T5 NTS



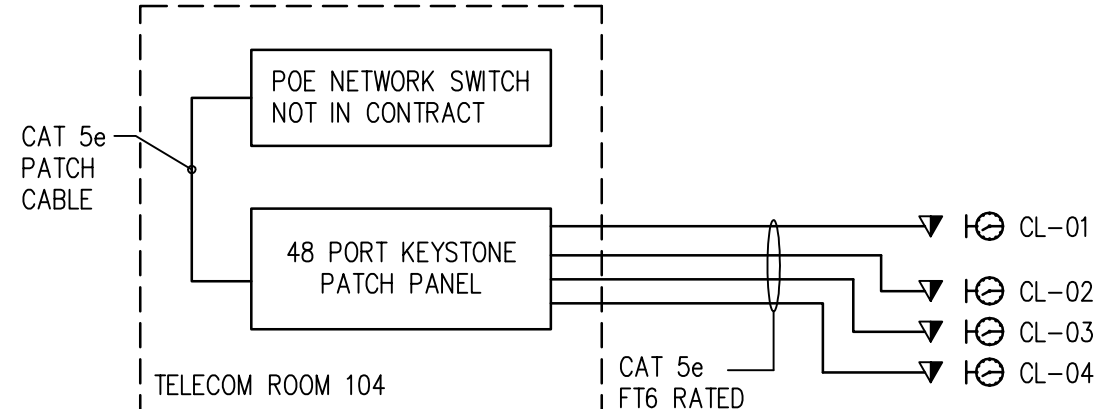
6 AUDIO SYSTEM SINGLE LINE DIAGRAM
T5 NTS



7 INTRUSION ALARM SINGLE LINE DIAGRAM
T5 NTS



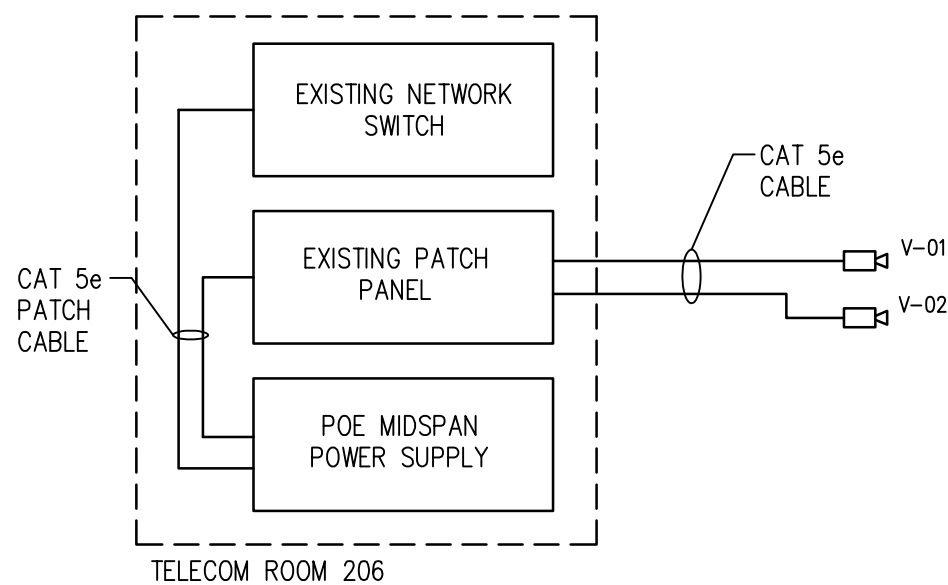
2 TELECOM GROUNDING AND BACKBONE SINGLE LINE DIAGRAM
T5 NTS



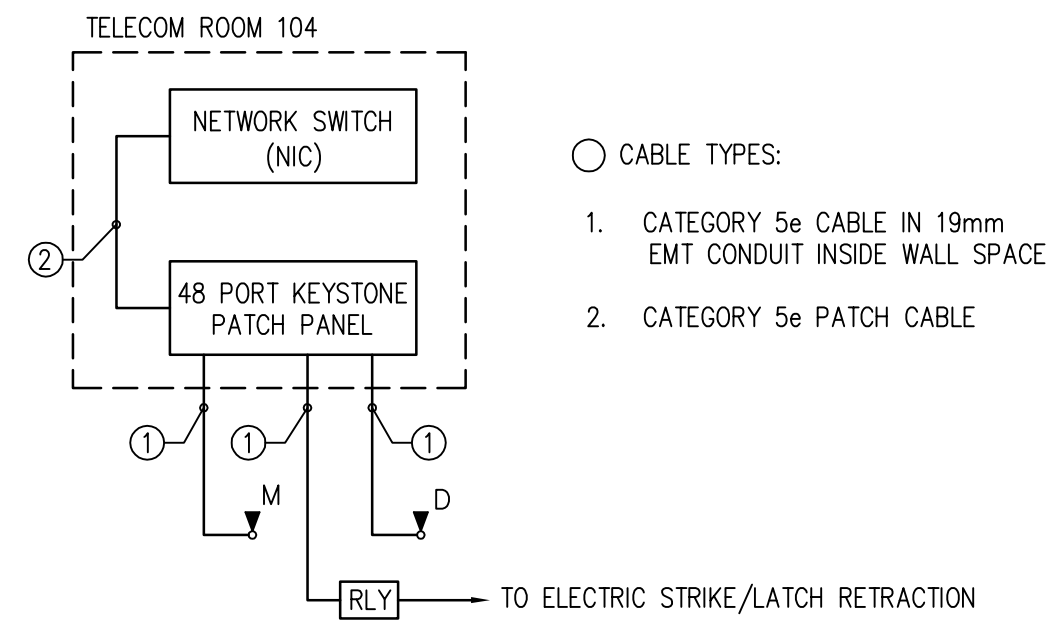
- NOTE:
- POE NETWORK SWITCH TO BE SUPPLIED AND INSTALLED BY DEPARTMENTAL REPRESENTATIVE.
 - PATCH PANEL AND ALL CABLING BY CONTRACTOR. COORDINATE INSTALLATION WITH SSC.
 - INSTALL PATCH PANEL IN 2-POST RACK.

5 CLOCK SYSTEM SINGLE LINE DIAGRAM
T5 NTS

- CABLE TYPES
- ANTENNA COAXIAL CABLE
 - 2 CONDUCTOR 18 AWG
 - 3 CONDUCTOR SHIELDED MICROPHONE CABLE
 - RS232 CONTROL CABLE
 - CATEGORY 5e CABLE FT6 RATED WHEN EXPOSED AND NOT INSTALLED IN CONDUIT
 - AUDIO INPUT STEREO INPUT JACK OVER CAT5e CABLE. CABLE TO BE AS PER MANUFACTURER'S RECOMMENDATION SHALL BE FT6 RATED WHEN EXPOSED AND NOT INSTALLED IN CONDUIT.
 - 4 CONDUCTOR 18 AWG

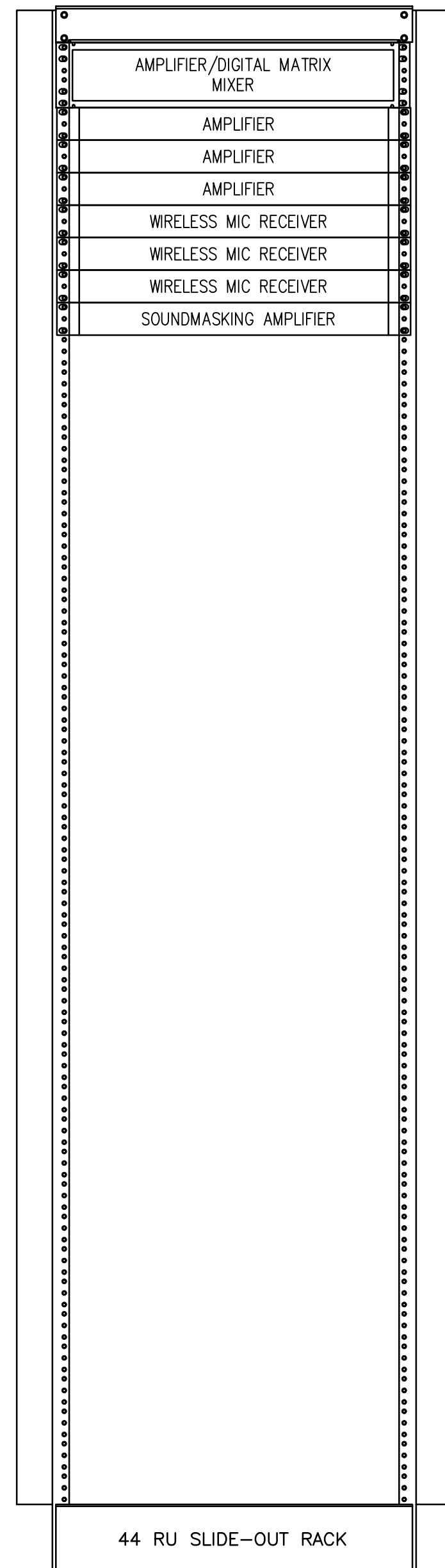


8 VIDEO SURVEILLANCE SINGLE LINE DIAGRAM
T5 NTS



- NOTE:
- NETWORK SWITCH TO BE SUPPLIED AND INSTALLED BY DEPARTMENTAL REPRESENTATIVE.
 - PATCH PANEL SHARED WITH PATCH PANEL IN DETAIL #5.
 - INSTALL PATCH PANEL IN 2-POST RACK.

3 VIDEO INTERCOM SINGLE LINE DIAGRAM
T5 NTS



9 AUDIO/VIDEO RACK LOCATED IN TELECOM ROOM 104 ELEVATION LAYOUT
T5 NTS

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SINGLE LINE DIAGRAMS

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