

# FITUP FOR CANADA REVENUE AGENCY GOVERNMENT OF CANADA BUILDING

32-46 CHURCH STREET, ST.CATHARINES, ONTARIO

PROJECT NUMBER: R.065355.001



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2	ISSUED FOR TENDER	29.11.06
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detail no.  
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Projet *CRA OFFICE FIT UP* Project

CANADA REVENUE AGENCY  
32-46 CHURCH STREET  
ST. CATHARINES, ONT.

Dessin *COVER SHEET* Drawing

Conçu par *Taylor Hazell Architects LTD.* Designed by  
Date 2013--10-17  
Dessiné par *Abe G.* Drawn by  
Date 2013--10-17  
Approuvé par *Jill Taylor* Approved by  
Date 2013--10-17  
Soumission *APC* Tender

Administrateur de projets APC *PCA Project Manager*  
No de projet *R.065355.001* Project number  
APC *PCA*  
Nom du fichier *1384\_A000 COVER\_SHEET.DWG* File name  
No de classement  
File no  
No de plan ou dessin *COVER\_SHEET.DWG* File name  
No feuille *A000* Sheet no

DRAWING LIST
A000 COVER SHEET
A201 GROUND FLOOR - EXISTING CONSTRUCTION
A202 SECOND FLOOR - EXISTING CONSTRUCTION
A211 GROUND FLOOR - DEMOLITION
A212 SECOND FLOOR - DEMOLITION
A221 GROUND FLOOR - NEW WORK
A222 SECOND FLOOR - NEW WORK
A301 GROUND FLOOR - REFLECTED CEILING PLAN - EXISTING
A302 SECOND FLOOR - REFLECTED CEILING PLAN - EXISTING
A311 GROUND FLOOR - REFLECTED CEILING PLAN - DEMOLITION
A312 SECOND FLOOR - REFLECTED CEILING PLAN - DEMOLITION
A321 GROUND FLOOR - REFLECTED CEILING PLAN - NEW WORK
A322 SECOND FLOOR - REFLECTED CEILING PLAN - NEW WORK
A600 CEILING & ROOF PENETRATION DETAILS
A700 PLAN DETAILS NEW VESTIBULE
A1000 DOOR & ROOM FINISH SCHEDULES

**GENERAL NOTES**

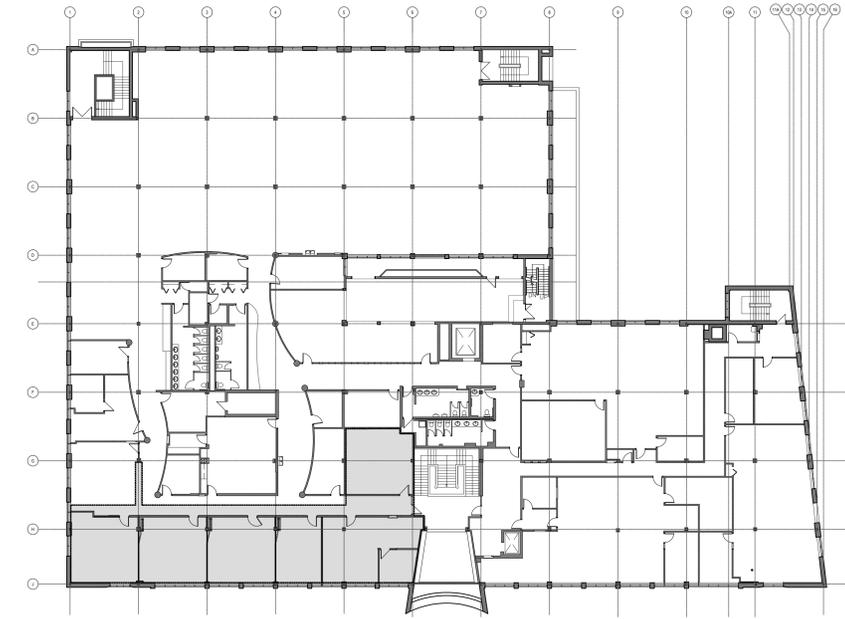
- FURNITURE PACKAGE TO BE TENDERED SEPARATELY. GENERAL CONTRACTOR TO COORDINATE WITH FURNITURE INSTALLER.
- CONTRACTOR TO COORDINATE WITH BUILDING OWNER. DELAYS DUE TO LACK OF COORDINATION WITH BUILDING OWNER ARE RESPONSIBILITY OF CONTRACTOR AND WILL BE RECTIFIED WITH EXTRA SHIFTS AS REQUIRED TO MEET PROJECT SCHEDULING MILESTONES.
- REFER TO A-211 FOR HOARDING AND CONSTRUCTION ACCESS REQUIREMENTS. ANY SCOPE OF WORK BEYOND THE WORK ZONE HOARDING NEED TO BE PERFORMED AFTER NORMAL WORKING HOURS AND COORDINATED WITH BUILDING OWNER.
- ADDITIONAL HOARDING TO BE PROVIDED TO LOADING DOCK VESTIBULE FOR AFTER HOURS BULK DEMOLITION WORK.
- ALL DELIVERIES MUST BE COORDINATED WITH THE BUILDING OWNER AND OCCUR WEEKDAYS BETWEEN 6PM AND MIDNIGHT. TWO WEEKS NOTICE MUST BE GIVEN TO THE BUILDING OWNER FOR DELIVERIES.
- REFERENCES TO MECHANICAL AND ELECTRICAL SCOPE HAVE BEEN MADE ON ARCHITECTURAL DRAWINGS FOR CONVENIENCE. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR COMPLETE SCOPE OF WORK.

**LEGEND**

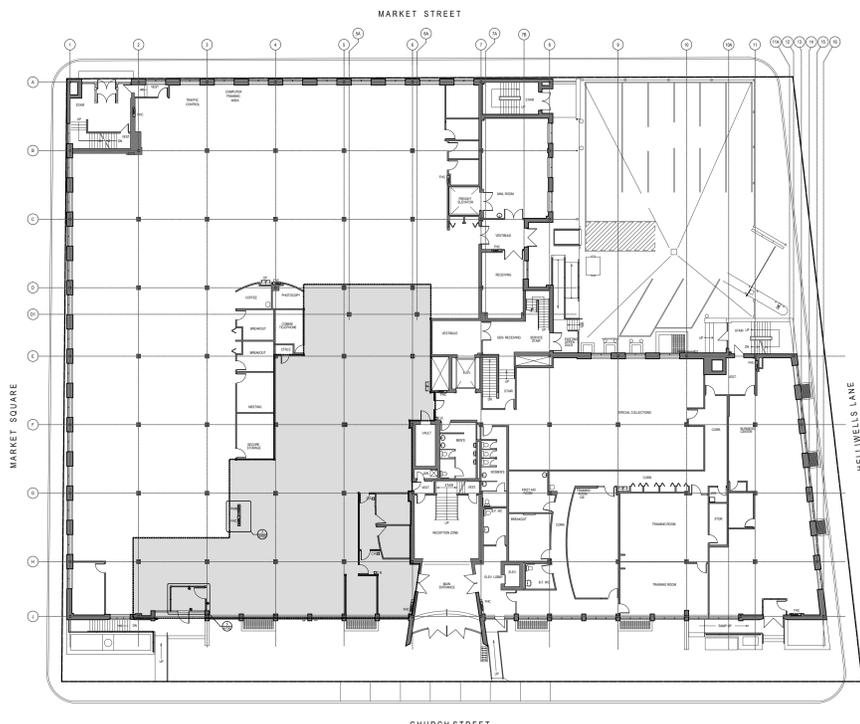
	EXTENT OF PHASE ONE WORK
	EXISTING WALL
	NEW STC RATED DRYWALL ASSEMBLY REFER TO WALL TYPES FOR DETAILS
	EXISTING DOOR
	NEW DOOR
	POWER DOOR OPERATOR
	CORNER GUARD

WALL TAG	ASSEMBLY DETAIL	DESCRIPTION
◇		DRYWALL ASSEMBLY, STC 40 • 15.9MM GWB • 25 GAUGE 92MM STEEL STUDS AT 600MM O.C. • 15.9MM GWB FULL HEIGHT TO UNDERSIDE OF STRUCTURAL DECK
◇		DRYWALL ASSEMBLY, STC 40 • 15.9MM GWB • 25 GAUGE 92MM STEEL STUDS AT 600MM O.C. • 15.9MM GWB EXTEND 150MM ABOVE LINE OF ACT CEILING
◇		ONE-SIDED DRYWALL ASSEMBLY, 92MM • 15.9MM GWB • 25 GAUGE 92MM STEEL STUDS AT 600MM O.C.
◇		ONE-SIDED DRYWALL ASSEMBLY, 64MM • 15.9MM GWB • 25 GAUGE 64MM STEEL STUDS AT 600MM O.C.
◇		ONE-SIDED DRYWALL ASSEMBLY, 41MM • 15.9MM GWB • 25 GAUGE 41MM STEEL STUDS AT 600MM O.C.
◇		DRYWALL ASSEMBLY ON FURRING CHANNELS • 15.9MM GWB • 25 GAUGE FURRING CHANNELS AT 400MM O.C.
◇		ALUMINUM MULLION AND GLASS ASSEMBLY • ALUMINUM PROFILES TO MATCH EXISTING
◇		CONSTRUCTION HOARDING ASSEMBLY • 15.9MM GWB • 25 GAUGE 92MM STEEL STUDS AT 600MM O.C. • 15.9MM GWB PARTITION TO U/S OF GWB/ACT GRID. 6MIL POLY DUST BARRIER TO U/S OF STRUCTURE. SEAL AROUND SERVICE PENETRATIONS.

CEILING TAG	ASSEMBLY DETAIL	DESCRIPTION
◇		GWB PANEL ON STEEL FRAME CANOPY • 22MM FURRING CHANNELS AT 600MM O.C. (MAX.) • WIRE TIED TO STEEL FRAME • 15.9MM GWB PANEL SCREW FASTENED • ZINC CONTROL JOINT NO. 093
◇		DROP ACT IN SUSPENDED GRID • PROVIDE ACOUSTIC GASKET BETWEEN WALL & CEILING

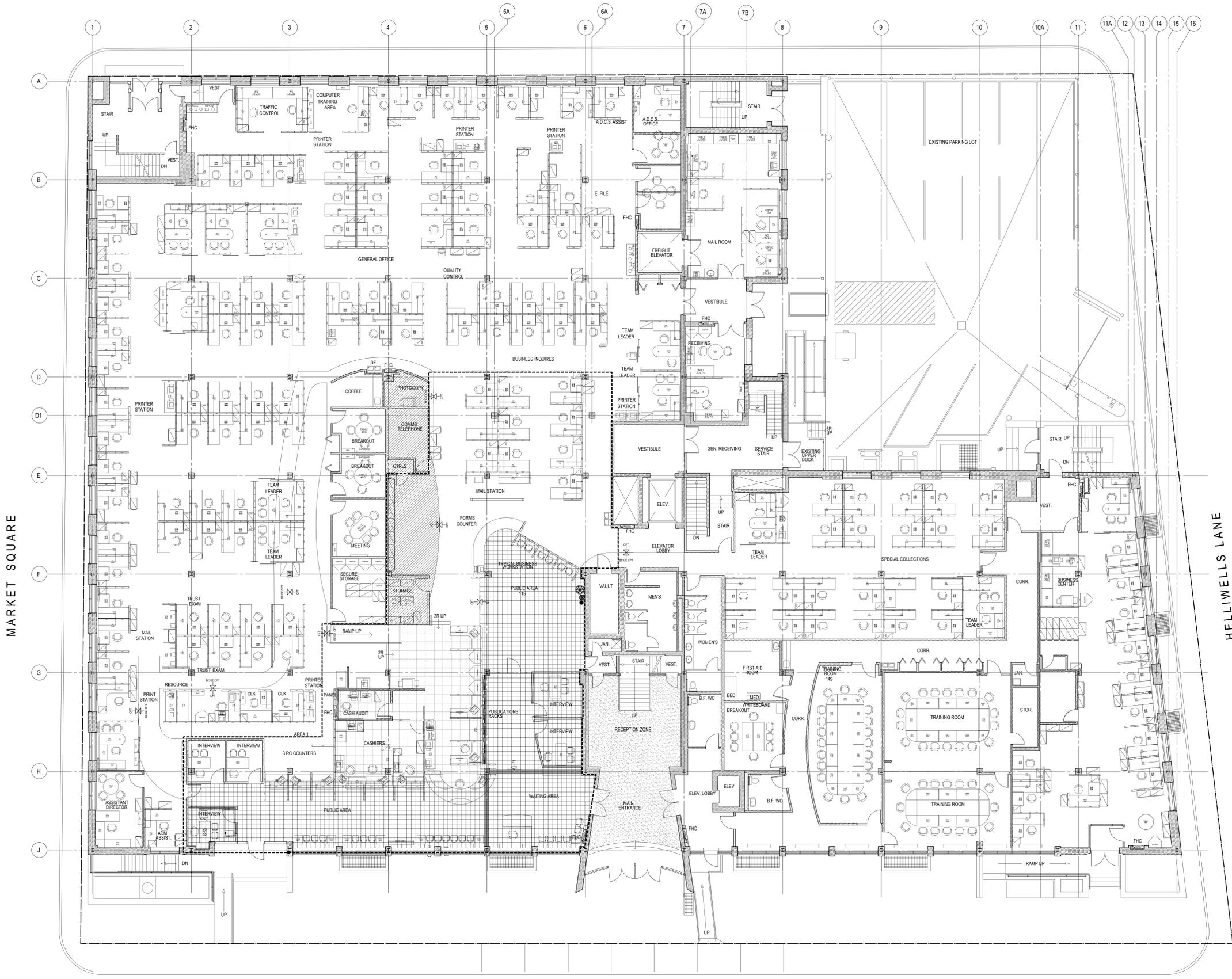


2 SECOND FLOOR - LOCATION PLAN  
A000 1:250



1 GROUND FLOOR - LOCATION PLAN  
A000 1:250

MARKET STREET



**LEGEND**

--- EXTENT OF PHASE ONE WORK

--- EXISTING WALL

**FLOOR FINISHES**

--- CARPET TILE

--- CERAMIC TILE

--- RESILIENT SHEET FLOORING

--- TERRAZZO FLOOR

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Projet *CRA OFFICE FIT UP* Project  
CANADA REVENUE AGENCY  
32-46 CHURCH STREET  
ST. CATHARINES, ONT.

Dessin *GROUND FLOOR PLAN EXISTING CONSTRUCTION* Drawing  
METERS 0 1 2 3 4 5

Conçu par *Taylor Hazell Architects LTD.* 2013--10--17 Designed by  
Date  
Dessiné par *Abe G.* 2013--10--17 Drawn by  
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Soumission Tender

Administrateur de projets APC PCA Project Manager  
No de projet *R.065355.001* Project number  
APC PCA  
Nom du fichier *1384\_GROUND\_FLOOR EXISTING.DWG* File name No de classement  
File no  
No de plan ou dessin *1384\_GROUND\_FLOOR EXISTING.DWG* File name No feuille Sheet no  
A201

CHURCH STREET

MARKET SQUARE

HELLWELLS LANE

AutoCAD 2013/11/20 \\THASER\SERVER\PROJECTS\2013\1384 ST CATHARINES\CONCEPTUAL DESIGN FOR CRA & CSC (RE 1295)\DRAWINGS\WORKING DRAWINGS\1384\_GROUND\_FLOOR\_EXISTING.DWG

**LEGEND**

EXTENT OF PHASE ONE WORK  
 EXISTING WALL

**FLOOR FINISHES**

CARPET TILE  
 CERAMIC TILE  
 RESILIENT SHEET FLOORING

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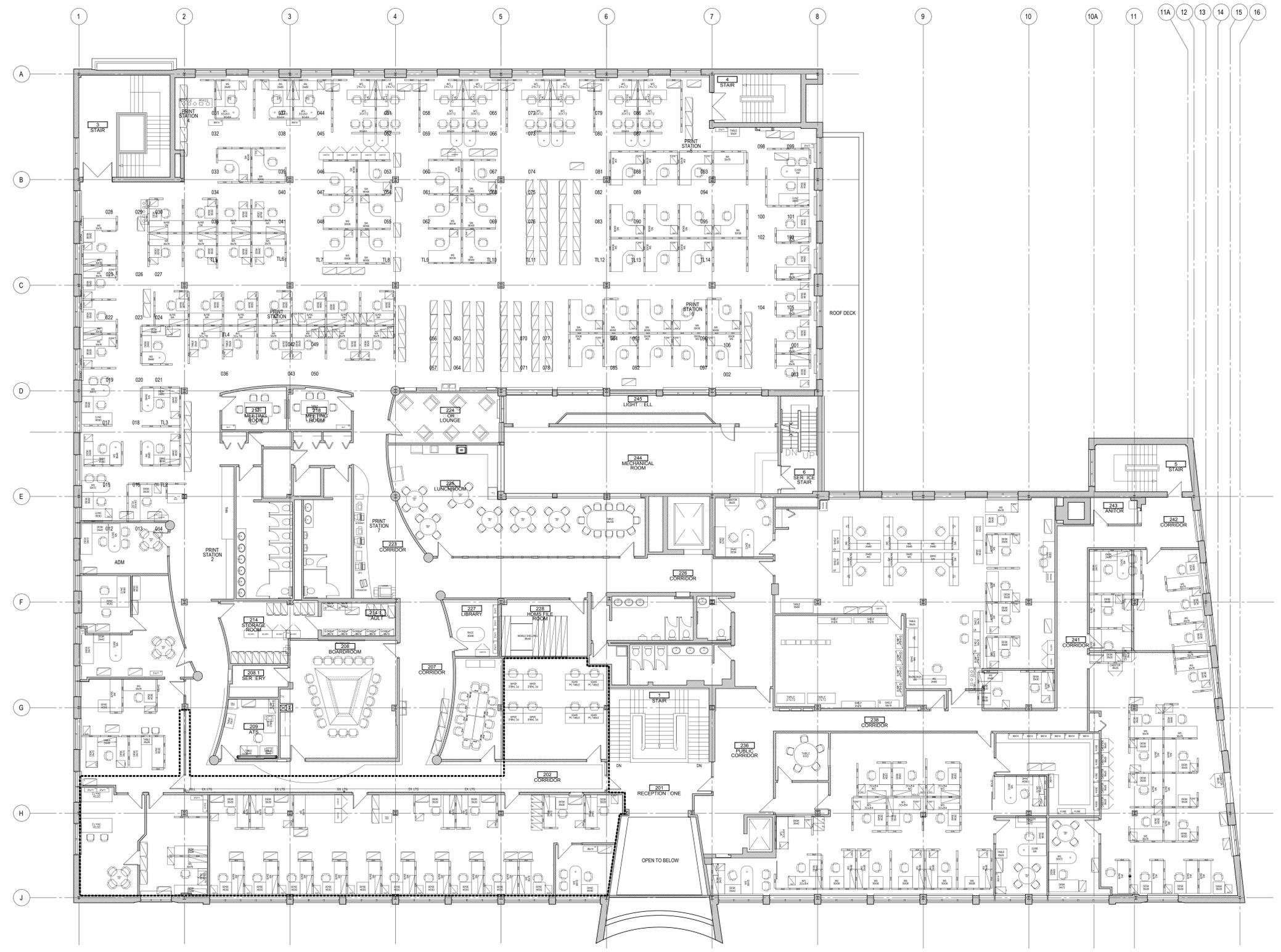
Projet **CRA OFFICE FIT UP** Project  
 CANADA REVENUE AGENCY  
 32-46 CHURCH STREET  
 ST. CATHARINES, ONT.

Dessin **SECOND FLOOR PLAN EXISTING CONSTRUCTION** Drawing



Conçu par **Taylor Hazell Architects LTD.** Designed by  
 Date 2013--10-17  
 Dessiné par **Abe G.** Drawn by  
 Date 2013--10-17  
 Approuvé par **Jill Taylor** Approved by  
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 Nom du fichier / File name **1384\_SECOND\_FLOOR EXISTING.DWG** No de classement  
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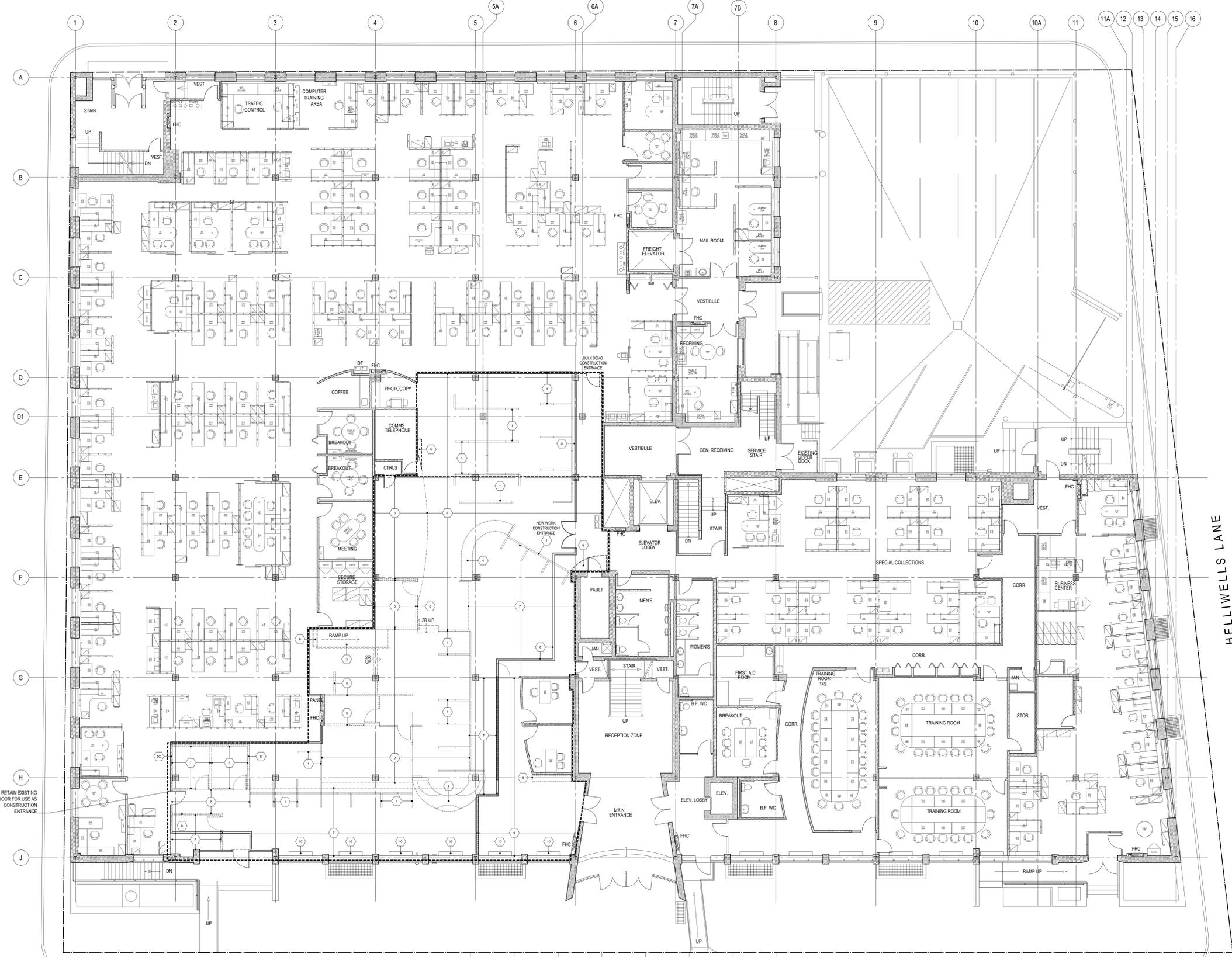
AutoCAD 2013/11/28 \\THASER\PROJECTS\2013\1384-ST CATHARINES CONCEPTUAL DESIGN FOR CRA & CSC (RE 1299)\DRAWINGS\WORKING DRAWINGS\1384\_GROUND\_FLOOR\_DEMO.DWG

MARKET SQUARE

MARKET STREET

CHURCH STREET

HELLIWELLS LANE



**LEGEND**

- EXTENT OF PHASE ONE WORK
- ==== BULK DEMOLITION CONSTRUCTION HOARDING
- NEW WORK CONSTRUCTION HOARDING
- CONSTRUCT NEW WORK PARTITION - USE AS HOARDING
- EXISTING WALL
- EXISTING WALL CONSTRUCTION TO BE DEMOLISHED
- EXISTING FURNITURE & PARTITIONS TO BE REMOVED
- EXISTING CEILING CONSTRUCTION TO BE DEMOLISHED

- DEMOLITION GENERAL NOTES**
- DEMOLITION DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS TO DETERMINE FULL DEMOLITION SCOPE OF WORK.
  - CONTRACTOR TO MINIMIZE DISTURBANCE TO EXISTING PLASTER WALLS AND FINISHES TO REMAIN DURING COURSE OF CONSTRUCTION RELATED ACTIVITIES.
  - DEMOLITION OTHER THAN THAT INDICATED IN THESE NOTES MUST BE APPROVED BY THE CONSULTANT BEFORE WORK CAN PROCEED.
  - TEMPORARY WORK, OPENINGS AND CONSTRUCTION ACCESS MUST BE RESTORED TO MATCH ORIGINAL CONDITION INCLUDING CONSTRUCTION METHODS AND MATERIALS.
  - THE METHOD OF DEMOLITION SHALL NOT DISTURB EXISTING CONDITIONS ANY DAMAGE TO THE INTEGRITY OF THE EXISTING STRUCTURE TO REMAIN INCLUDING PLASTER AS A RESULT OF DEMOLITION SHALL BE REPAIRED TO MATCH ORIGINAL CONDITION INCLUDING CONSTRUCTION, METHODS AND MATERIALS.
  - FOR ADDITIONAL FLOOR AND WALL OPENINGS, SEE MECHANICAL AND ELECTRICAL DRAWINGS.
  - CONTRACTOR TO REVIEW W/ OWNER ALL FURNISHINGS, MILLWORK, LOOSE BOXES, MOVABLE PARTITIONS & OFFICE EQUIPMENT PRIOR TO DISPOSAL. CONTRACTOR TO MOVE ITEMS TO BE SALVAGED TO AREA DESIGNATED BY OWNER & DISPOSE OF REMAINING.
  - WHERE EXISTING FLOOR FINISH HAS BEEN REMOVED, CLEAN TOP OF SUBFLOOR TO ENSURE SMOOTH SURFACE FOR NEW WORK.
  - PATCH REMAINING WALL AND FINISHES AS REQUIRED TO MATCH ADJACENT WALLS WHERE DEMOLISHED WALLS MEET WALLS TO REMAIN.
  - PROTECT ALL WINDOW SILLS, RADIATORS (AND OUTLET GRILLES) DURING COURSE OF WORK AND REPLACE TO MATCH EXISTING IF DAMAGED.
  - REMOVE EXISTING ACT CEILING TO EXTENTS INDICATED ON DRAWING A311. REFER TO MECHANICAL AND ELECTRICAL FOR MORE INFORMATION.

- DEMOLITION NOTES**
- REMOVAL OF EXISTING SYSTEMS FURNITURE PARTITIONS AND ASSOCIATED WORK SURFACES, REMAINING FURNITURE, OVERHEAD STORAGE CABINETS, ELECTRICAL & IT CONNECTIONS BY OTHERS.
  - REMOVE RAISED FLOOR CONSTRUCTION AND ALL ASSOCIATED FINISHES, ELECTRICAL & DATA CONNECTIONS REMOVED BY OTHERS PRIOR TO DEMOLITION.
  - REMOVE EXISTING RAMP & HANDRAIL.
  - REMOVE EXISTING COUNTERTOPS & MILLWORK.
  - REMOVE EXISTING RESILIENT SHEET FLOOR FINISH AND WALL BASE INCLUDING RESIDUE TO TO SUBFLOOR.
  - REMOVE EXISTING CARPET FLOOR FINISH AND WALL BASE INCLUDING RESIDUE TO TO SUBFLOOR. SALVAGE BEIGE FEATURE CARPET FINISH FOR REUSE IN NEW WORK.
  - REMOVE EXISTING CERAMIC TILE FLOOR FINISH AND WALL BASE INCLUDING RESIDUE TO TO SUBFLOOR.
  - REMOVE METAL STUD AND GYPSUM BOARD PARTITIONS TO UNDERSIDE OF STRUCTURE AND ASSOCIATED ELECTRICAL, IT, DOORS AND FRAMES.
  - RETAIN PARTITION FOR USE AS CONSTRUCTION HOARDING. DEMOLISH AT FINAL PHASE OF CONSTRUCTION.
  - RETAIN CERAMIC TILE FLOOR FINISH BEYOND PROPOSED LINE OF NEW PARTITION CONSTRUCTION.
  - PROTECT EXISTING FAN COIL UNITS AND MILLWORK CASINGS DURING DEMOLITION.

- RCP DEMOLITION NOTES**
- REMOVE ACOUSTIC TILE CEILING PANELS AND SUSPENDED GRID. REFER TO MECHANICAL AND ELECTRICAL FOR REMOVALS OF ASSOCIATED HVAC ASSEMBLY & LIGHTING FIXTURES.
  - REMOVE ONG BULKHEAD AND ASSOCIATED STEEL STUD BACKUP STRUCTURE. REFER TO MECHANICAL AND ELECTRICAL FOR REMOVALS OF ASSOCIATED HVAC ASSEMBLY & LIGHTING FIXTURES.
  - REMOVE SUSPENDED WOOD FEATURE BULKHEAD ALONG WITH ASSOCIATED LIGHT FIXTURES, ELECTRICAL.
  - REMOVE AND REINSTATE EXISTING ACOUSTIC TILE CEILING PANELS. REFER TO MECHANICAL AND ELECTRICAL FOR REMOVALS OF ASSOCIATED HVAC ASSEMBLY & LIGHTING FIXTURES.

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Projet **CRA OFFICE FIT UP** Project

CANADA REVENUE AGENCY  
32-46 CHURCH STREET  
ST. CATHARINES, ONT.

Dessin **GROUND FLOOR PLAN DEMOLITION** Drawing

Conçu par **Taylor Hazell Architects LTD.** 2013--10--17  
Date  
Dessiné par **Abe G.** 2013--10--17  
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Approuvé par **Jill Taylor** 2013--10--17  
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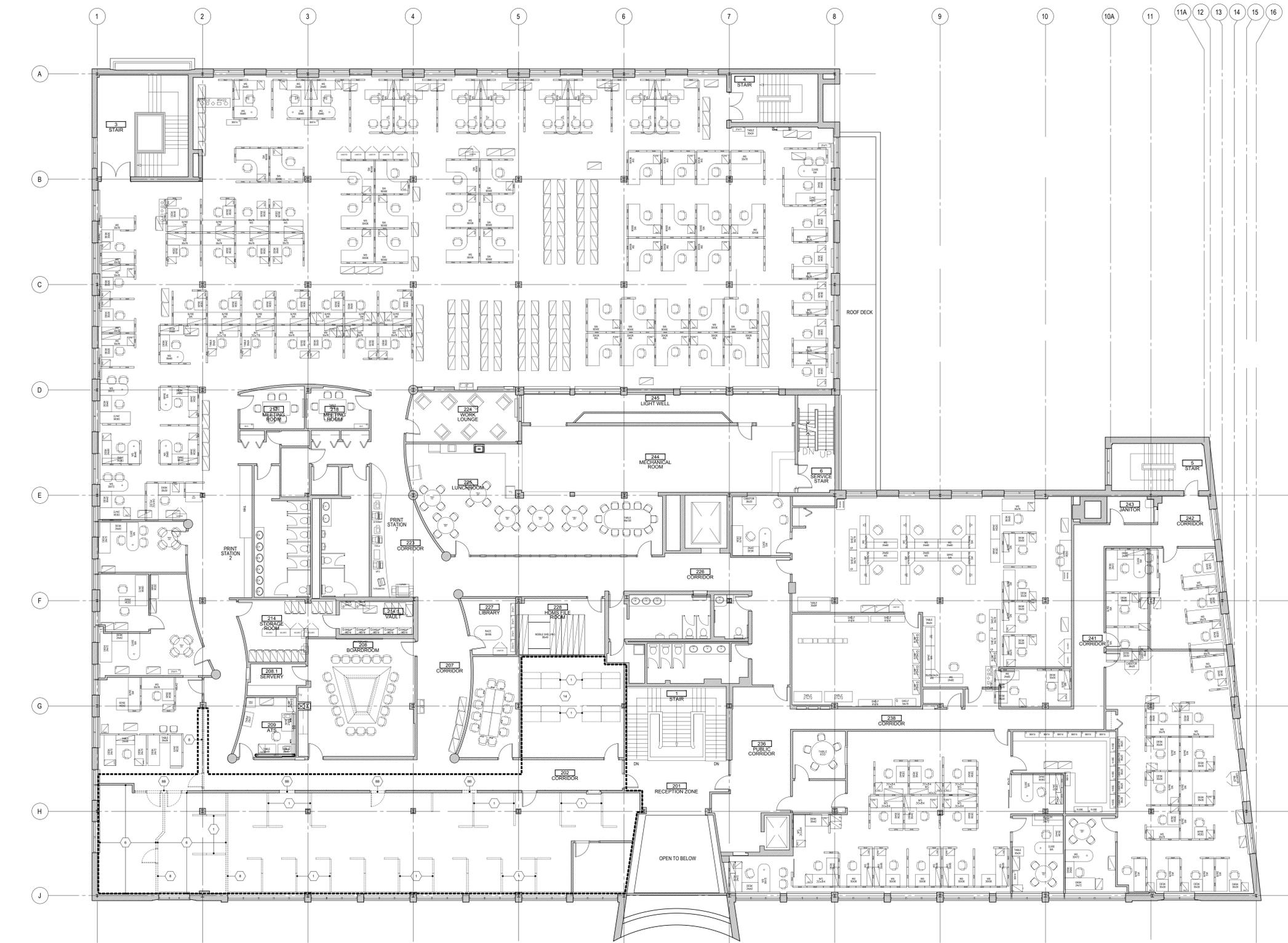
Administrateur de projets APC **PCA Project Manager**

No de projet **R.065355.001** Project number  
APC **PCA**

Nom du fichier **1384\_GROUND\_FLOOR DEMO.DWG** File name No de classement

No de plan ou dessin **A211** File no No feuille Sheet no

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**LEGEND**

- EXTENT OF PHASE ONE WORK
- EXISTING WALL
- EXISTING WALL CONSTRUCTION TO BE DEMOLISHED
- EXISTING FURNITURE & PARTITIONS TO BE REMOVED
- EXISTING CEILING CONSTRUCTION TO BE DEMOLISHED

- DEMOLITION GENERAL NOTES**
1. DEMOLITION DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS TO DETERMINE FULL DEMOLITION SCOPE OF WORK.
  2. CONTRACTOR TO MINIMIZE DISTURBANCE TO EXISTING PLASTER WALLS AND FINISHES TO REMAIN DURING COURSE OF CONSTRUCTION RELATED ACTIVITIES.
  3. DEMOLITION OTHER THAN THAT INDICATED IN THESE NOTES MUST BE APPROVED BY THE CONSULTANT BEFORE WORK CAN PROCEED.
  4. TEMPORARY WORK, OPENINGS AND CONSTRUCTION ACCESS MUST BE RESTORED TO MATCH ORIGINAL CONDITION INCLUDING CONSTRUCTION METHODS AND MATERIALS.
  5. THE METHOD OF DEMOLITION SHALL NOT DISTURB EXISTING CONDITIONS: ANY DAMAGE TO THE INTEGRITY OF THE EXISTING STRUCTURE TO REMAIN INCLUDING PLASTER AS A RESULT OF DEMOLITION SHALL BE REPAIRED TO MATCH ORIGINAL CONDITION INCLUDING CONSTRUCTION METHODS AND MATERIALS.
  6. FOR ADDITIONAL FLOOR AND WALL OPENINGS, SEE MECHANICAL AND ELECTRICAL DRAWINGS.
  7. CONTRACTOR TO REVIEW W/ OWNER ALL FURNISHINGS, MILLWORK, LOOSE BOXES, MOVEABLE PARTITIONS & OFFICE EQUIPMENT PRIOR TO DISPOSAL. CONTRACTOR TO MOVE ITEMS TO BE SALVAGED TO AREA DESIGNATED BY OWNER & DISPOSE OF REMAINING.
  8. WHERE EXISTING FLOOR FINISH HAS BEEN REMOVED, CLEAN TOP OF SUBFLOOR TO ENSURE SMOOTH SURFACE FOR NEW WORK.
  9. PATCH REMAINING WALL AND FINISHES AS REQUIRED TO MATCH ADJACENT WALLS WHERE DEMOLISHED WALLS MEET WALLS TO REMAIN.
  10. PROTECT ALL WINDOW SILLS, RADIATORS (AND OUTLET GRILLES) DURING COURSE OF WORK AND REPLACE TO MATCH EXISTING IF DAMAGED.
  11. REMOVE EXISTING ACT CEILING TO EXTENTS INDICATED ON DRAWING A311. REFER TO MECHANICAL AND ELECTRICAL FOR MORE INFORMATION.

- DEMOLITION NOTES**
1. REMOVAL OF EXISTING SYSTEMS FURNITURE PARTITIONS AND ASSOCIATED WORK SURFACES. REMAINING FURNITURE, OVERHEAD STORAGE CABINETS, ELECTRICAL & IT CONNECTIONS BY OTHERS.
  2. REMOVE RAISED FLOOR CONSTRUCTION AND ALL ASSOCIATED FINISHES. ELECTRICAL & DATA CONNECTIONS REMOVED BY OTHERS PRIOR TO DEMOLITION.
  3. REMOVE EXISTING RAMP & HANDRAIL.
  4. REMOVE EXISTING COUNTERTOPS & ASSOCIATED MILLWORK.
  5. REMOVE EXISTING RESILIENT SHEET FLOOR FINISH AND WALL BASE INCLUDING RESIDUE TO T/O SUBFLOOR.
  6. REMOVE EXISTING CARPET FLOOR FINISH AND WALL BASE INCLUDING RESIDUE TO T/O SUBFLOOR. SALVAGE BEIGE FEATURE CARPET FINISH FOR REUSE IN NEW WORK.
  7. REMOVE EXISTING CERAMIC TILE FLOOR FINISH AND WALL BASE INCLUDING RESIDUE TO T/O SUBFLOOR.
  8. REMOVE METAL STUD AND GYPSUM BOARD PARTITIONS TO UNDERSIDE OF STRUCTURE AND ASSOCIATED ELECTRICAL, IT, DOORS AND FRAMES.
  9. REMOVE METAL STUD AND GYPSUM BOARD PARTITIONS TO UNDERSIDE OF STRUCTURE AND ASSOCIATED ELECTRICAL, IT, DOORS AND FRAMES. SALVAGE MARBLE FINISH PANELS.
  10. RETAIN CERAMIC TILE FLOOR FINISH BEYOND PROPOSED LINE OF NEW PARTITION CONSTRUCTION.
  11. PROTECT EXISTING FAN COIL UNITS AND MILLWORK CASINGS DURING DEMOLITION.

- RCP DEMOLITION NOTES**
11. REMOVE ACOUSTIC TILE CEILING PANELS AND SUSPENDED GRID. REFER TO MECHANICAL AND ELECTRICAL FOR REMOVALS OF ASSOCIATED HVAC ASSEMBLY & LIGHTING FIXTURES.
  12. REMOVE GWS BULKHEAD AND ASSOCIATED STEEL STUD BACKUP STRUCTURE. REFER TO MECHANICAL AND ELECTRICAL FOR REMOVALS OF ASSOCIATED HVAC ASSEMBLY & LIGHTING FIXTURES.
  13. REMOVE SUSPENDED WOOD FEATURE BULKHEAD ALONG WITH ASSOCIATED LIGHT FIXTURES, ELECTRICAL.
  14. REMOVE AND REINSTATE EXISTING ACOUSTIC TILE CEILING PANELS. REFER TO MECHANICAL AND ELECTRICAL FOR REMOVALS OF ASSOCIATED HVAC ASSEMBLY & LIGHTING FIXTURES.

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Dessin **SECOND FLOOR PLAN DEMOLITION** Drawing

METERS  
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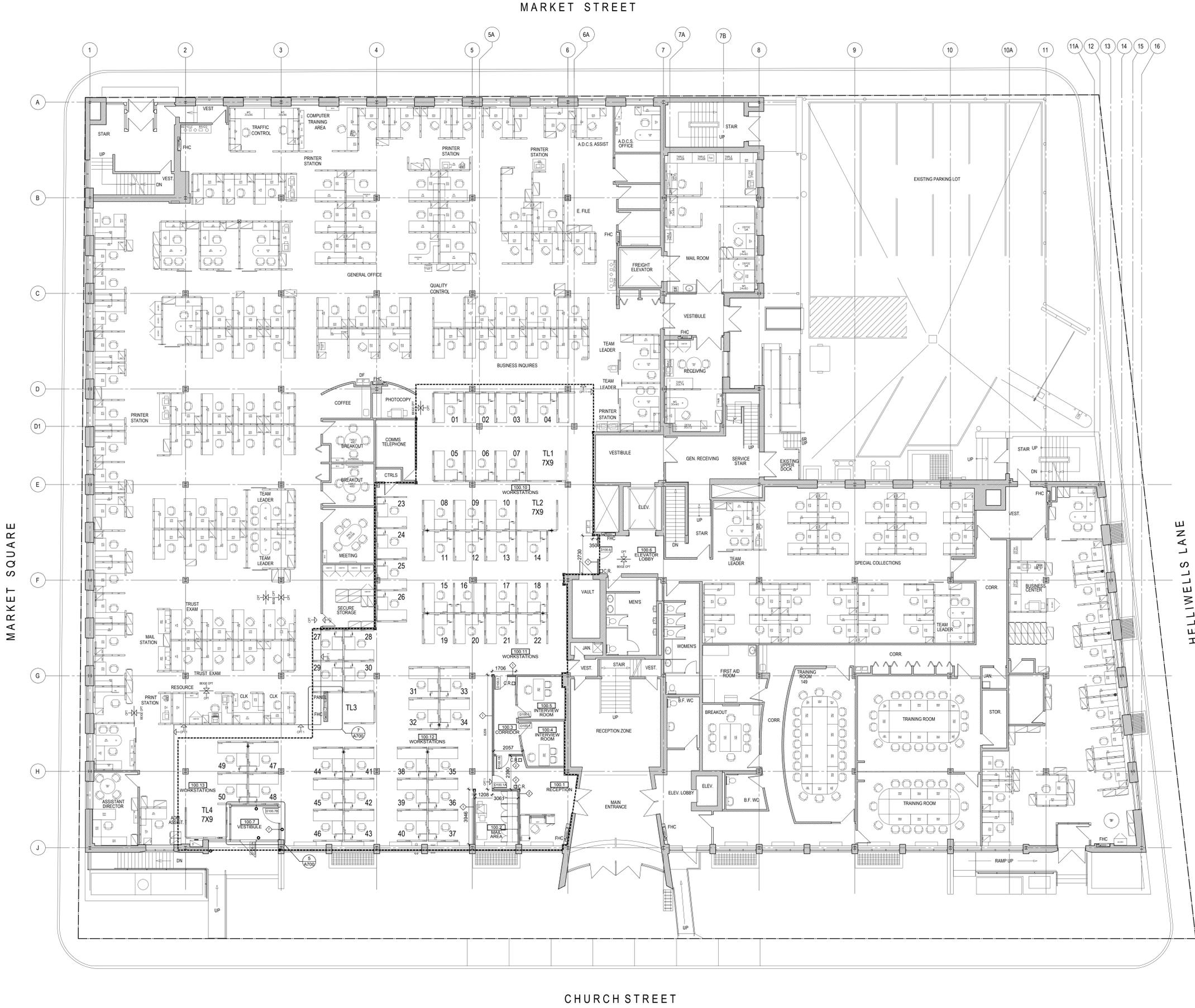
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**LEGEND**

- EXTENT OF PHASE ONE WORK
- EXISTING WALL
- NEW STC RATED DRYWALL ASSEMBLY FULL HEIGHT TO UNDERSIDE OF STRUCTURE
- LINE OF EXISTING GWB CEILING BULKHEAD
- LINE OF EXISTING ACT PANELS & SUSPENDED GRID
- LINE OF NEW GWB CEILING BULKHEAD
- LINE OF NEW ACT PANELS & SUSPENDED GRID
- POWER DOOR OPERATOR
- CORNER GUARD
- C.R. CARD READER
- EXIT SIGN
- POWER POLE

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Projet *CRA OFFICE FIT UP* Project

CANADA REVENUE AGENCY  
32-46 CHURCH STREET  
ST. CATHARINES, ONT.

Dessin *GROUND FLOOR PLAN  
NEW WORK* Drawing

Conçu par *Taylor Hazell Architects LTD.* 2013--10--17 Date  
 Dessiné par *Abe G.* 2013--10--17 Date  
 Approuvé par *Jill Taylor* 2013--10--17 Date  
 Soumission *Tender*

Administrateur de projets APC *PCA Project Manager*

No de projet *R.065355.001* Project number  
 Nom du fichier *1384\_GROUND\_FLOOR\_NEW\_WORK.DWG* File name No de classement  
 No de plan ou dessin *File name* No de feuille *File no* Sheet no  
A221

**LEGEND**

- EXTENT OF PHASE ONE WORK
- EXISTING WALL
- NEW STC RATED DRYWALL ASSEMBLY FULL HEIGHT TO UNDERSIDE OF STRUCTURE
- CORNER GUARD

**NOTES**

- 1 INSTALL 19 mm VENEER CORE PLY BETWEEN EXISTING FRAMING TO SUPPORT PROJECTION SCREEN BY A.V. CONTRACTOR

Public Works and Government Services Canada  
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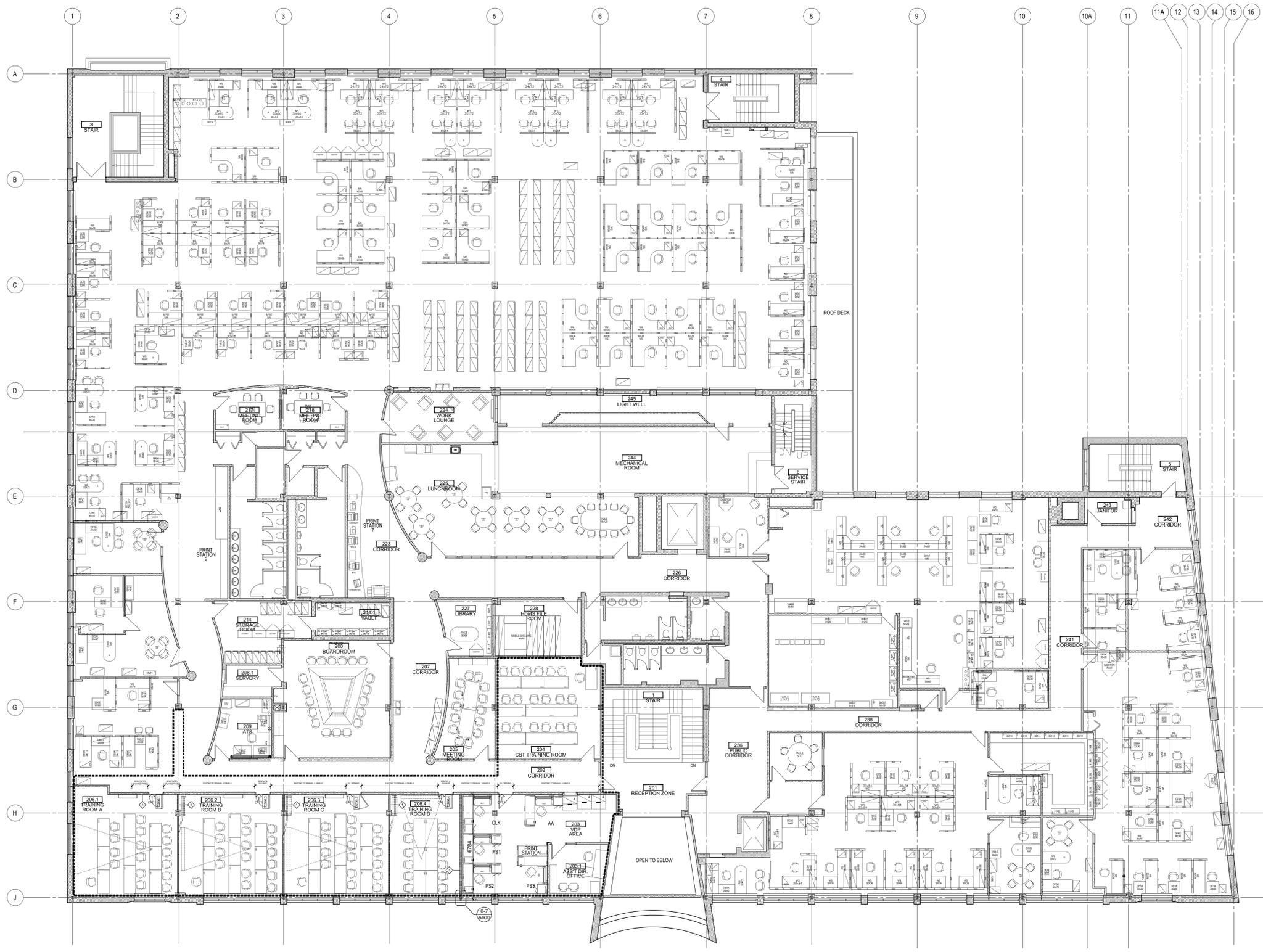
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Projet **CRA OFFICE FIT UP** Project  
 CANADA REVENUE AGENCY  
 32-46 CHURCH STREET  
 ST. CATHARINES, ONT.

Dessin **SECOND FLOOR PLAN NEW WORK** Drawing

Conçu par **Taylor Hazell Architects LTD.** 2013--10-17 Designed by / Date  
 Dessiné par **Abe G.** 2013--10-17 Drawn by / Date  
 Approuvé par **Jill Taylor** 2013--10-17 Approved by / Date  
 Soumission Tender

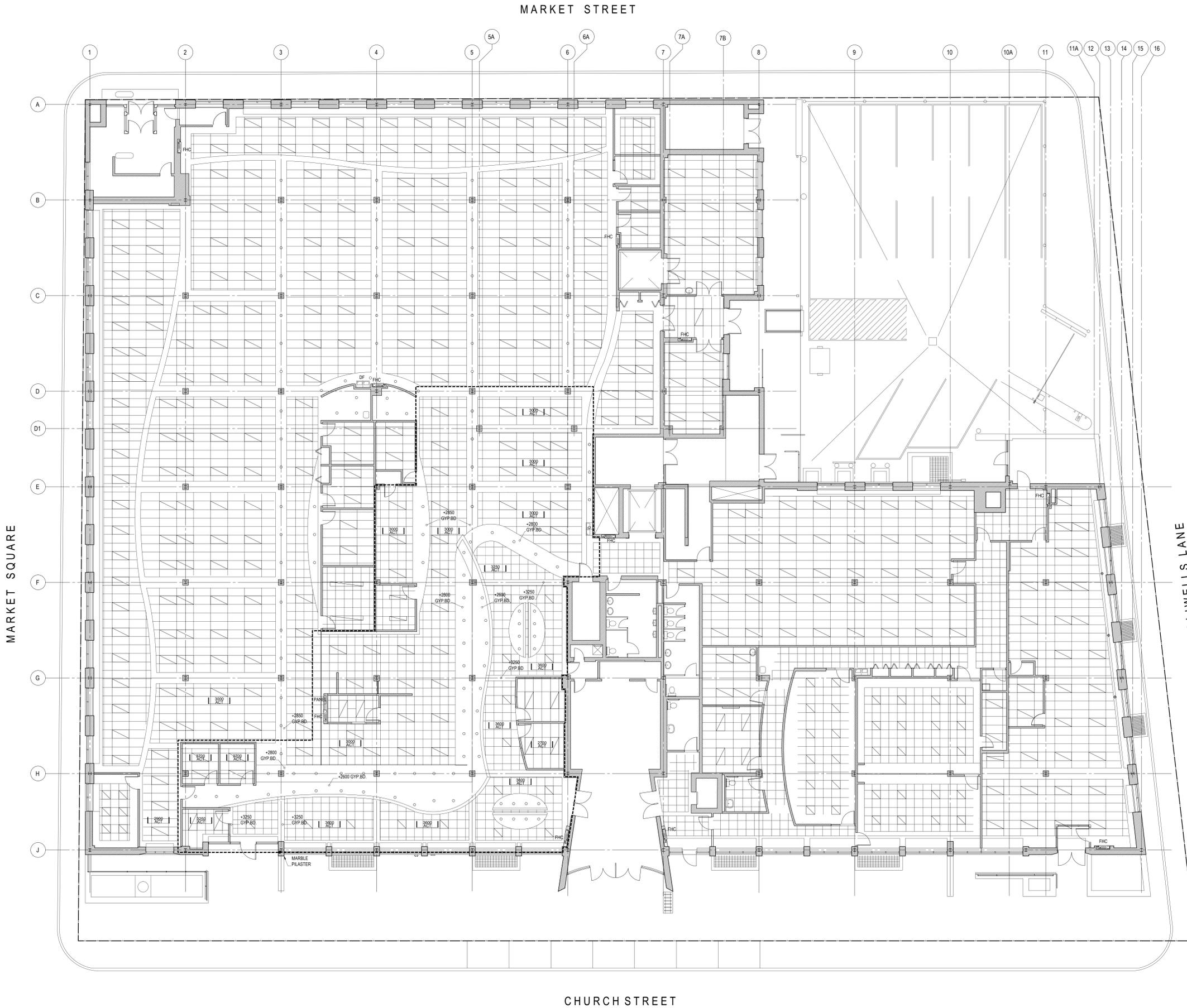
Administrateur de projets APC PCA Project Manager  
 No de projet **R.065355.001** Project number  
 APC PCA  
 Nom du fichier **1384\_SECOND\_FLOOR\_NEW\_WORK.DWG** File name No de classement  
 No de plan ou dessin **A222** File no No feuille Sheet no



**1 SECOND FLOOR - PROPOSED CONSTRUCTION**  
 A222 1:100

AutoCAD 2013/11/28 \\THASER\PROJECTS\2013\1384-ST. CATHARINES\CONCEPTUAL DESIGN FOR CRA & CSC (RE 1295)\DRAWINGS\WORKING DRAWINGS\1384\_SECOND\_FLOOR\_NEW\_WORK.DWG

AutoCAD 2013/11/28 \\THASER\PROJECTS\2013\1384 ST. CATHARINES CONCEPTUAL DESIGN FOR CRA & CSC (RE 1295)\DRAWINGS\WORKING DRAWINGS\1384\_GROUND\_FLOOR\_EXISTING.DWG



**LEGEND**

--- EXTENT OF PHASE ONE WORK

--- EXISTING WALL

**ACT TYPES**

□ 1220mm x 610mm TILE - STANDARD

□ 1220mm x 610mm TILE - TEGULAR DETAIL

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Projet **CRA OFFICE FIT UP** Project

CANADA REVENUE AGENCY  
32-46 CHURCH STREET

ST. CATHARINES, ONT.

Dessin **GROUND FLOOR PLAN EXISTING RCP** Drawing

Conçu par **Taylor Hazell Architects LTD.** Designed by  
Date 2013--10-17

Dessiné par **Abe G.** Drawn by  
Date 2013--10-17

Approuvé par **Jill Taylor** Approved by  
Date 2013--10-17

Soumission Tender

Administrateur de projets APC PCA Project Manager

No de projet **R.065355.001** Project number  
APC PCA

Nom du fichier **1384\_GROUND\_FLOOR\_EXISTING.DWG** File name No de classement

No de plan ou dessin **1** File no  
No de feuille **A301** Sheet no

**LEGEND**

EXTENT OF PHASE ONE WORK

EXISTING WALL

**ACT TYPES**

1220mm x 610mm TILE - STANDARD

1220mm x 610mm TILE - TEGULAR DETAIL

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Projet *CRA OFFICE FIT UP* Project

CANADA REVENUE AGENCY  
32-46 CHURCH STREET  
ST. CATHARINES, ONT.

Dessin *SECOND FLOOR PLAN EXISTING RCP* Drawing

METERS

Conçu par *Taylor Hazell Architects LTD.* Designed by  
Date 2013--10--17

Dessiné par *Abe G.* Drawn by  
Date 2013--10--17

Approuvé par *Jill Taylor* Approved by  
Date 2013--10--17

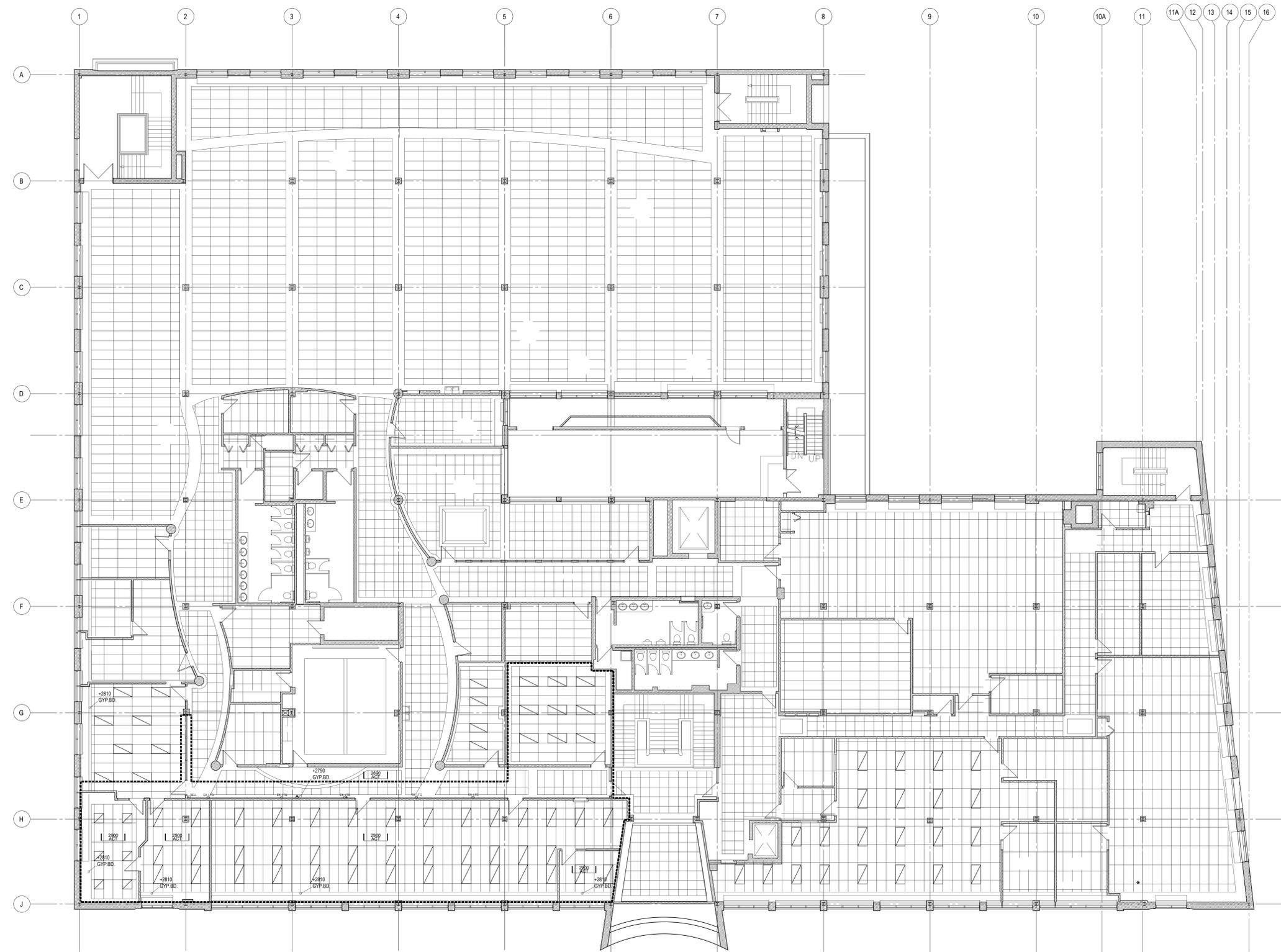
Soumission Tender

Administrateur de projets APC PCA Project Manager

No de projet *R.065355.001* Project number  
APC PCA

Nom du fichier *1384\_SECOND\_FLOOR EXISTING.DWG* File name No de classement

No de plan ou dessin *A302* File no  
No de feuille Sheet no



1 SECOND FLOOR - REFLECTED CEILING PLAN - E XISTING  
A302 1:100

AutoCAD 2013/11/20 \\THASER\PROJECTS\2013\1384 ST CATHARINES CONCEPTUAL DESIGN FOR CRA & CSC (RE 1295)\DRAWINGS\WORKING DRAWINGS\1384\_SECOND\_FLOOR\_EXISTING.DWG

MARKET STREET



CHURCH STREET

**LEGEND**

- EXTENT OF PHASE ONE WORK
- ==== BULK DEMOLITION CONSTRUCTION HOARDING
- NEW WORK CONSTRUCTION HOARDING
- CONSTRUCT NEW WORK PARTITION - USE AS HOARDING
- EXISTING WALL
- EXISTING WALL CONSTRUCTION TO BE DEMOLISHED
- EXISTING FURNITURE & PARTITIONS TO BE REMOVED
- EXISTING CEILING CONSTRUCTION TO BE DEMOLISHED

- DEMOLITION GENERAL NOTES**
1. DEMOLITION DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS TO DETERMINE FULL DEMOLITION SCOPE OF WORK.
  2. CONTRACTOR TO MINIMIZE DISTURBANCE TO EXISTING PLASTER WALLS AND FINISHES TO REMAIN DURING COURSE OF CONSTRUCTION RELATED ACTIVITIES.
  3. DEMOLITION OTHER THAN THAT INDICATED IN THESE NOTES MUST BE APPROVED BY THE CONSULTANT BEFORE WORK CAN PROCEED.
  4. TEMPORARY WORK, OPENINGS AND CONSTRUCTION ACCESS MUST BE RESTORED TO MATCH ORIGINAL CONDITION INCLUDING CONSTRUCTION METHODS AND MATERIALS.
  5. THE METHOD OF DEMOLITION SHALL NOT DISTURB EXISTING CONDITIONS ANY DAMAGE TO THE INTEGRITY OF THE EXISTING STRUCTURE TO REMAIN INCLUDING PLASTER AS A RESULT OF DEMOLITION SHALL BE REPAIRED TO MATCH ORIGINAL CONDITION INCLUDING CONSTRUCTION, METHODS AND MATERIALS.
  6. FOR ADDITIONAL FLOOR AND WALL OPENINGS, SEE MECHANICAL AND ELECTRICAL DRAWINGS.
  7. CONTRACTOR TO REVIEW W/ OWNER ALL FURNISHINGS, MILLWORK, LOOSE BOXES, MOVABLE PARTITIONS & OFFICE EQUIPMENT PRIOR TO DISPOSAL. CONTRACTOR TO MOVE ITEMS TO BE SALVAGED TO AREA DESIGNATED BY OWNER & DISPOSE OF REMAINING.
  8. WHERE EXISTING FLOOR FINISH HAS BEEN REMOVED, CLEAN TOP OF SUBFLOOR TO ENSURE SMOOTH SURFACE FOR NEW WORK.
  9. PATCH REMAINING WALL AND FINISHES AS REQUIRED TO MATCH ADJACENT WALLS WHERE DEMOLISHED WALLS MEET WALLS TO REMAIN.
  10. PROTECT ALL WINDOW SILLS, RADIATORS (AND OUTLET GRILLES) DURING COURSE OF WORK AND REPLACE TO MATCH EXISTING IF DAMAGED.
  11. REMOVE EXISTING ACT CEILING TO EXTENTS INDICATED ON DRAWING A311. REFER TO MECHANICAL AND ELECTRICAL FOR MORE INFORMATION.

- DEMOLITION NOTES**
1. REMOVAL OF EXISTING SYSTEMS FURNITURE PARTITIONS AND ASSOCIATED WORK SURFACES, REMAINING FURNITURE, OVERHEAD STORAGE CABINETS, ELECTRICAL & IT CONNECTIONS BY OTHERS.
  2. REMOVE RAISED FLOOR CONSTRUCTION AND ALL ASSOCIATED FINISHES, ELECTRICAL & DATA CONNECTIONS REMOVED BY OTHERS PRIOR TO DEMOLITION.
  3. REMOVE EXISTING RAMP & HANDRAIL.
  4. REMOVE EXISTING COUNTERTOPS & MILLWORK.
  5. REMOVE EXISTING RESILIENT SHEET FLOOR FINISH AND WALL BASE INCLUDING RESIDUE TO TO SUBFLOOR.
  6. REMOVE EXISTING CARPET FLOOR FINISH AND WALL BASE INCLUDING RESIDUE TO TO SUBFLOOR. SALVAGE BEIGE FEATURE CARPET FINISH FOR REUSE IN NEW WORK.
  7. REMOVE EXISTING CERAMIC TILE FLOOR FINISH AND WALL BASE INCLUDING RESIDUE TO TO SUBFLOOR.
  8. REMOVE METAL STUD AND GYPSUM BOARD PARTITIONS TO UNDERSIDE OF STRUCTURE AND ASSOCIATED ELECTRICAL, IT, DOORS AND FRAMES.
  9. RETAIN PARTITION FOR USE AS CONSTRUCTION HOARDING. DEMOLISH AT FINAL PHASE OF CONSTRUCTION.
  10. RETAIN CERAMIC TILE FLOOR FINISH BEYOND PROPOSED LINE OF NEW PARTITION CONSTRUCTION.
  11. PROTECT EXISTING FAN COIL UNITS AND MILLWORK CASINGS DURING DEMOLITION.

- RCP DEMOLITION NOTES**
11. REMOVE ACOUSTIC TILE CEILING PANELS AND SUSPENDED GRID. REFER TO MECHANICAL AND ELECTRICAL FOR REMOVALS OF ASSOCIATED HVAC ASSEMBLY & LIGHTING FIXTURES.
  12. REMOVE ONB BULKHEAD AND ASSOCIATED STEEL STUD BACKUP STRUCTURE. REFER TO MECHANICAL AND ELECTRICAL FOR REMOVALS OF ASSOCIATED HVAC ASSEMBLY & LIGHTING FIXTURES.
  13. REMOVE SUSPENDED WOOD FEATURE BULKHEAD ALONG WITH ASSOCIATED LIGHT FIXTURES, ELECTRICAL.
  14. REMOVE AND REINSTATE EXISTING ACOUSTIC TILE CEILING PANELS. REFER TO MECHANICAL AND ELECTRICAL FOR REMOVALS OF ASSOCIATED HVAC ASSEMBLY & LIGHTING FIXTURES.

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Projet **CRA OFFICE FIT UP** Project

CANADA REVENUE AGENCY  
32-46 CHURCH STREET  
ST. CATHARINES, ONT.

Dessin **GROUND FLOOR PLAN  
RCP DEMOLITION** Drawing

METERS  
0 1 2 3 4 5

Conçu par **Taylor Hazell Architects LTD.** 2013--10--17  
Date  
Dessiné par **Abe G.** 2013--10--17  
Date  
Approuvé par **Jill Taylor** 2013--10--17  
Date  
Soumission **Tender**

Administrateur de projets APC **PCA Project Manager**

No de projet **R.065355.001** Project number  
APC **PCA**

Nom du fichier **1384\_GROUND\_FLOOR DEMO.DWG** File name No de classement

No de plan ou dessin **A311** File no  
No feuille **A311** Sheet no

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Projet **CRA OFFICE FIT UP** Project

CANADA REVENUE AGENCY  
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ST. CATHARINES, ONT.

Dessin **SECOND FLOOR PLAN** Drawing

**RCP DEMOLITION**



Conçu par **Taylor Hazell Architects LTD.** 2013--10-17  
Date

Dessiné par **Abe G.** 2013--10-17  
Date

Approuvé par **Jill Taylor** 2013--10-17  
Date

Soumission **Tender**

Administrateur de projets APC **PCA Project Manager**

No de projet **R.065355.001** Project number  
APC **PCA**

Nom du fichier **1384\_SECOND\_FLOOR DEMO.DWG** File name No de classement

No de plan ou dessin **A312** File no  
No feuille **A312** Sheet no

- LEGEND**
- EXTENT OF PHASE ONE WORK
  - EXISTING WALL
  - EXISTING WALL CONSTRUCTION TO BE DEMOLISHED
  - EXISTING FURNITURE & PARTITIONS TO BE REMOVED
  - EXISTING CEILING CONSTRUCTION TO BE DEMOLISHED

**DEMOLITION GENERAL NOTES**

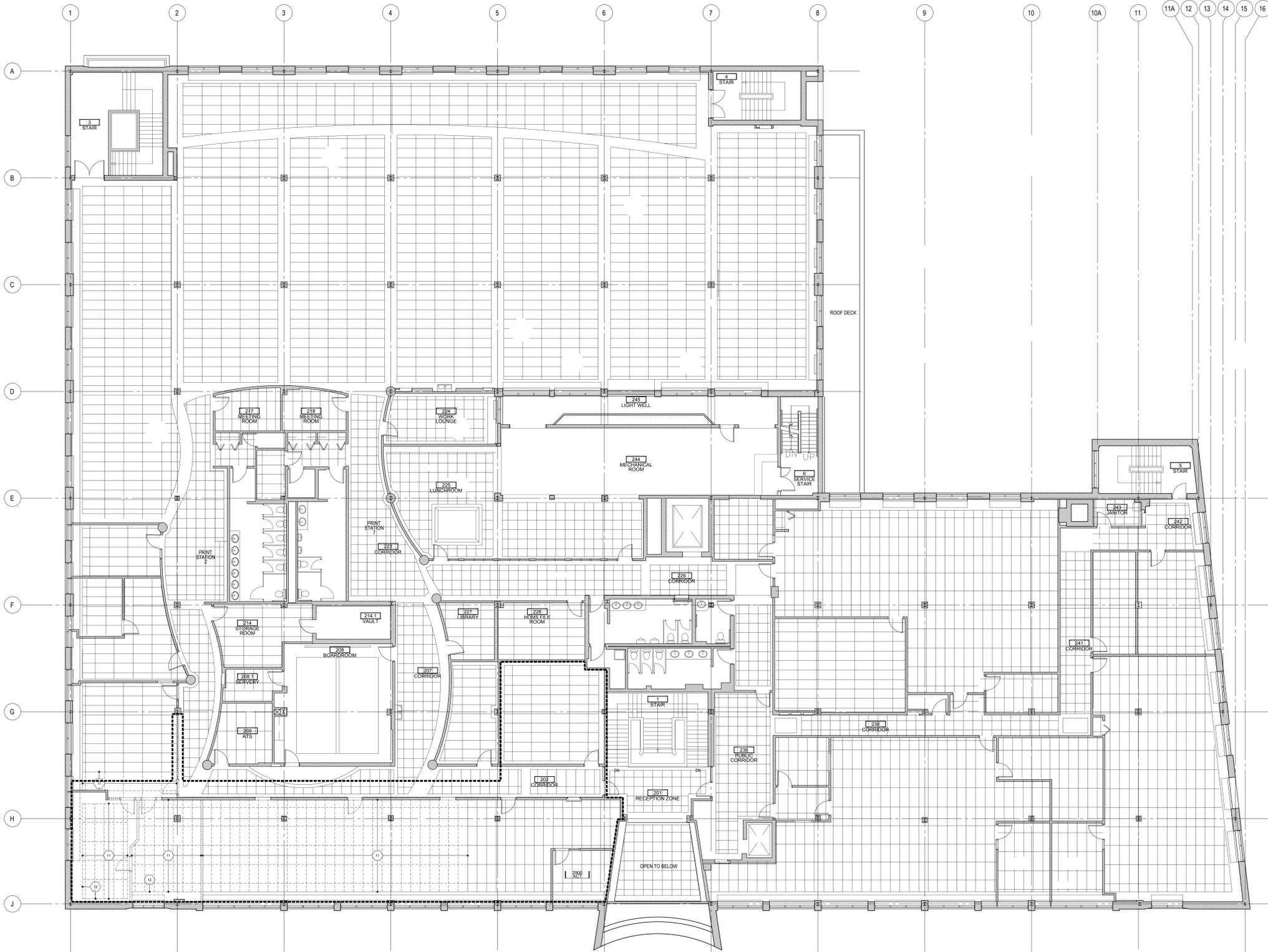
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3. DEMOLITION OTHER THAN THAT INDICATED IN THESE NOTES MUST BE APPROVED BY THE CONSULTANT BEFORE WORK CAN PROCEED.
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5. THE METHOD OF DEMOLITION SHALL NOT DISTURB EXISTING CONDITIONS. ANY DAMAGE TO THE INTEGRITY OF THE EXISTING STRUCTURE TO REMAIN INCLUDING PLASTER AS A RESULT OF DEMOLITION SHALL BE REPAIRED TO MATCH ORIGINAL CONDITION INCLUDING CONSTRUCTION, METHODS AND MATERIALS.
6. FOR ADDITIONAL FLOOR AND WALL OPENINGS, SEE MECHANICAL AND ELECTRICAL DRAWINGS.
7. CONTRACTOR TO REVIEW W/ OWNER ALL FURNISHINGS, MILLWORK, LOOSE BOXES, MOVABLE PARTITIONS & OFFICE EQUIPMENT PRIOR TO DISPOSAL. CONTRACTOR TO MOVE ITEMS TO BE SALVAGED TO AREA DESIGNATED BY OWNER & DISPOSE OF REMAINING.
8. WHERE EXISTING FLOOR FINISH HAS BEEN REMOVED, CLEAN TOP OF SUBFLOOR TO ENSURE SMOOTH SURFACE FOR NEW WORK.
9. PATCH REMAINING WALL AND FINISHES AS REQUIRED TO MATCH ADJACENT WALLS WHERE DEMOLISHED WALLS MEET WALLS TO REMAIN.
10. PROTECT ALL WINDOW SILLS, RADIATORS (AND OUTLET GRILLES) DURING COURSE OF WORK AND REPLACE TO MATCH EXISTING IF DAMAGED.
11. REMOVE EXISTING ACT CEILING TO EXTENTS INDICATED ON DRAWING A311. REFER TO MECHANICAL AND ELECTRICAL FOR MORE INFORMATION.

**DEMOLITION NOTES**

1. REMOVE OF EXISTING SYSTEMS FURNITURE PARTITIONS AND ASSOCIATED WORK SURFACES, REMAINING FURNITURE, OVERHEAD STORAGE CABINETS, ELECTRICAL & IT CONNECTIONS BY OTHERS.
2. REMOVE RAISED FLOOR CONSTRUCTION AND ALL ASSOCIATED FINISHES, ELECTRICAL & DATA CONNECTIONS REMOVED BY OTHERS PRIOR TO DEMOLITION.
3. REMOVE EXISTING RAMP & HANDRAIL.
4. REMOVE EXISTING COUNTERTOPS & ASSOCIATED MILLWORK.
5. REMOVE EXISTING RESILIENT SHEET FLOOR FINISH AND WALL BASE INCLUDING RESIDUE TO TO SUBFLOOR.
6. REMOVE EXISTING CARPET FLOOR FINISH AND WALL BASE INCLUDING RESIDUE TO TO SUBFLOOR. SALVAGE BEIGE FEATURE CARPET FINISH FOR REUSE IN NEW WORK.
7. REMOVE EXISTING CERAMIC TILE FLOOR FINISH AND WALL BASE INCLUDING RESIDUE TO TO SUBFLOOR.
8. REMOVE METAL STUD AND GYPSUM BOARD PARTITIONS TO UNDERSIDE OF STRUCTURE AND ASSOCIATED ELECTRICAL, IT, DOORS AND FRAMES.
9. REMOVE METAL STUD AND GYPSUM BOARD PARTITIONS TO UNDERSIDE OF STRUCTURE AND ASSOCIATED ELECTRICAL, IT, DOORS AND FRAMES. SALVAGE MARBLE FINISH PANELS.
10. RETAIN CERAMIC TILE FLOOR FINISH BEYOND PROPOSED LINE OF NEW PARTITION CONSTRUCTION.
11. PROTECT EXISTING FAN COIL UNITS AND MILLWORK CASINGS DURING DEMOLITION.

**RCP DEMOLITION NOTES**

11. REMOVE ACOUSTIC TILE CEILING PANELS AND SUSPENDED GRID. REFER TO MECHANICAL AND ELECTRICAL FOR REMOVALS OF ASSOCIATED HVAC ASSEMBLY & LIGHTING FIXTURES.
12. REMOVE GWB BULKHEAD AND ASSOCIATED STEEL STUD BACKUP STRUCTURE. REFER TO MECHANICAL AND ELECTRICAL FOR REMOVALS OF ASSOCIATED HVAC ASSEMBLY & LIGHTING FIXTURES.
13. REMOVE SUSPENDED WOOD FEATURE BULKHEAD ALONG WITH ASSOCIATED LIGHT FIXTURES, ELECTRICAL.
14. REMOVE AND REINSTATE EXISTING ACOUSTIC TILE CEILING PANELS. REFER TO MECHANICAL AND ELECTRICAL FOR REMOVALS OF ASSOCIATED HVAC ASSEMBLY & LIGHTING FIXTURES.



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MARKET STREET



**LEGEND**

- EXTENT OF PHASE ONE WORK
- EXISTING WALL
- NEW STC RATED DRYWALL ASSEMBLY FULL HEIGHT TO UNDERSIDE OF STRUCTURE
- LINE OF EXISTING GWB CEILING BULKHEAD
- LINE OF EXISTING ACT PANELS & SUSPENDED GRID
- LINE OF NEW GWB CEILING BULKHEAD
- LINE OF NEW ACT PANELS & SUSPENDED GRID
- POWER DOOR OPERATOR
- CORNER GUARD
- CARD READER
- EXIT SIGN
- POWER POLE

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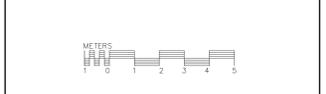
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Projet **CRA OFFICE FIT UP** Project  
 CANADA REVENUE AGENCY  
 32-46 CHURCH STREET  
 ST. CATHARINES, ONT.

Dessin **GROUND FLOOR CEILING PLAN RCP NEW WORK** Drawing



Conçu par **Taylor Hazell Architects LTD.** 2013--10-17 Designed by  
 Date  
 Dessiné par **Abe G.** 2013--10-17 Drawn by  
 Date  
 Approuvé par **Jill Taylor** 2013--10-17 Approved by  
 Date  
 Soumission Tender

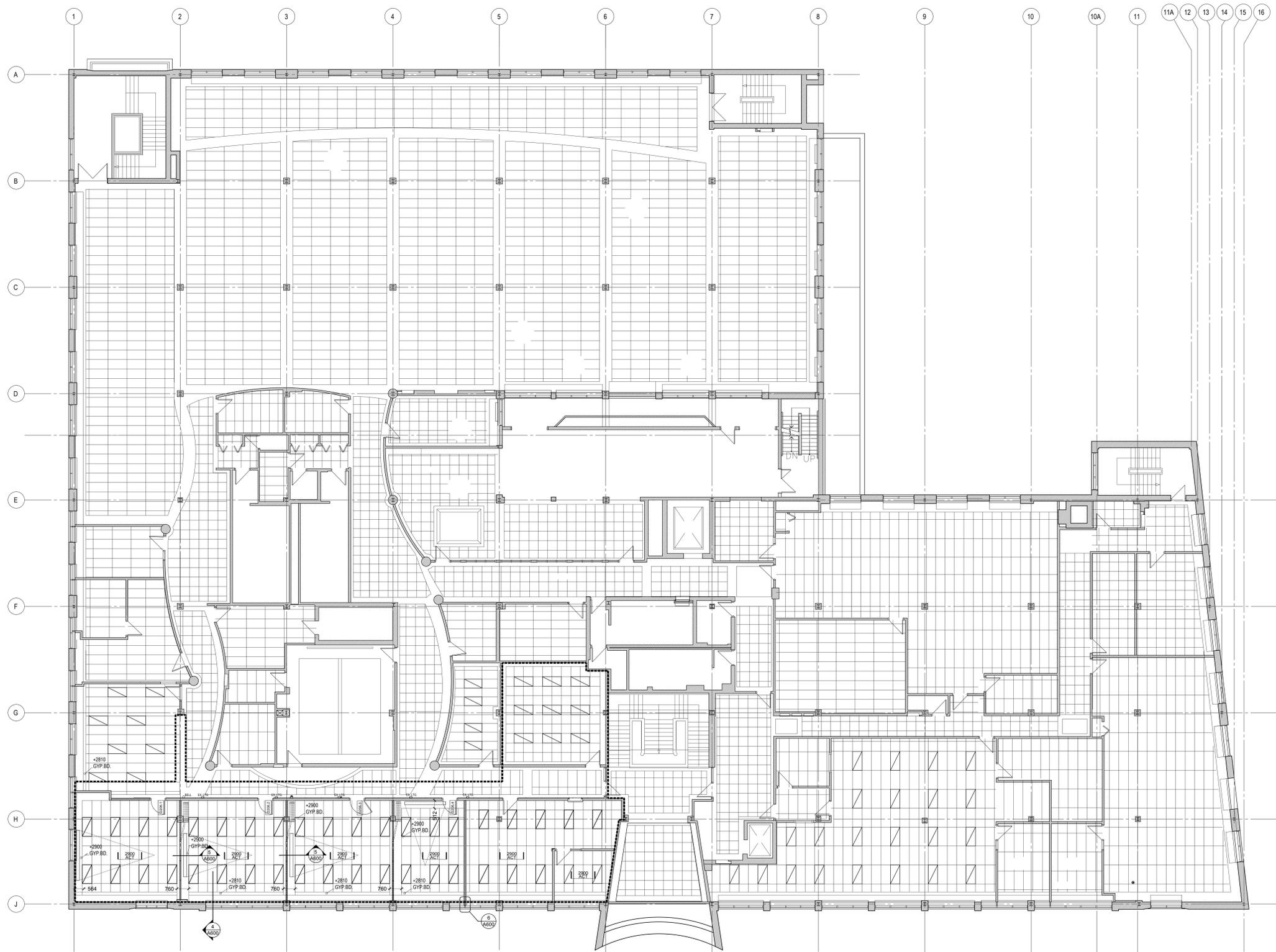
Administrateur de projets APC **PCA Project Manager**  
 No de projet / Project number **R.065355.001**  
 Nom du fichier / File name **1384\_GROUND\_FLOOR NEW\_WORK.DWG** No de classement  
 No de plan ou dessin / File name No feuille / Sheet no  
**A321**

MARKET SQUARE

HELLIWELLS LANE

CHURCH STREET

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**LEGEND**

- EXTENT OF PHASE ONE WORK
- EXISTING WALL
- NEW STC RATED DRYWALL ASSEMBLY FULL HEIGHT TO UNDERSIDE OF STRUCTURE.
- CORNER GUARD

**NOTES**

1. INSTALL 19 mm VENEER CORE PLY BETWEEN EXISTING FRAMING TO SUPPORT PROJECTION SCREEN BY A.Y. CONTRACTOR

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2	ISSUED FOR TENDER	29.11.06
1	ISSUED FOR REVIEW	13.11.06

**A** A no. du détail  
detail no.  
**B** B no. de la feuille—où détaillé  
sheet no. — where detailed

Projet **CRA OFFICE FIT UP** Project

CANADA REVENUE AGENCY  
32-46 CHURCH STREET  
ST. CATHARINES, ONT.

Dessin **SECOND FLOOR PLAN  
RCP NEW WORK** Drawing

Conçu par **Taylor Hazell Architects LTD.** Designed by  
Date 2013--10-17  
Dessiné par **Abe G.** Drawn by  
Date 2013--10-17  
Approuvé par **Jill Taylor** Approved by  
Date 2013--10-17  
Soumission Tender

Administrateur de projets APC **PCA Project Manager**

No de projet **R.065355.001** Project number  
APC  
Nom du fichier **1384\_SECOND\_FLOOR  
NEW\_WORK.DWG** File name No de classement  
File no  
No de plan ou dessin **A322** File name No feuille Sheet no



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Projet **CRA OFFICE FIT UP** Project

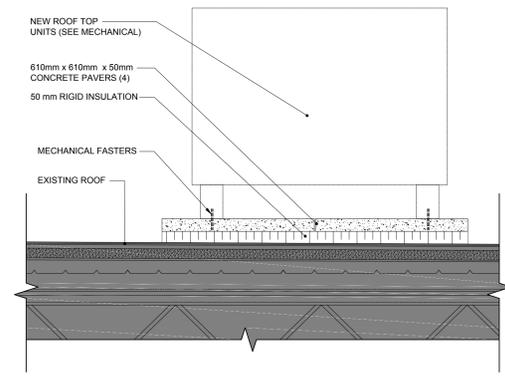
CANADA REVENUE AGENCY  
 32-46 CHURCH STREET  
 ST. CATHARINES, ONT.

Dessin **CEILING & ROOF PENETRATION DETAILS** Drawing

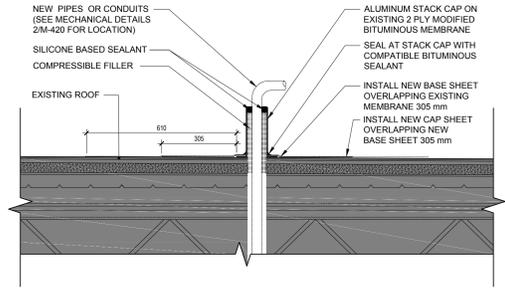
Conçu par / Designed by	Taylor Hazell Architects LTD.	2013--10-17	Date
Dessiné par / Drawn by	Abe C.	2013--10-17	Date
Approuvé par / Approved by	Jill Taylor	2013--10-17	Date
Soumission / Tender			

Administrateur de projets APC / PCA Project Manager  
 No de projet / Project number  
**R.065355.001**

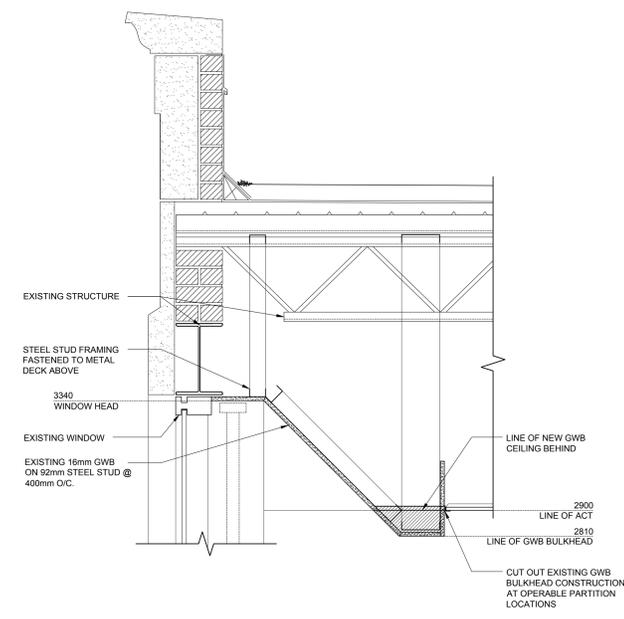
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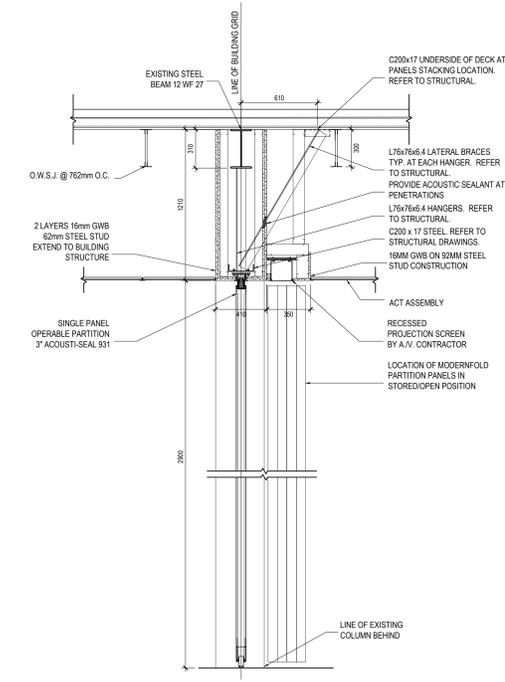
**4** DETAIL ROOF TOP UNITS  
 A600 1:10



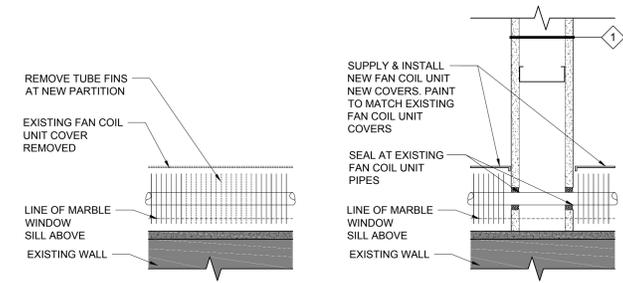
**4** DETAIL ROOF TOP UNITS SERVICES PENETRATIONS  
 A600 1:10



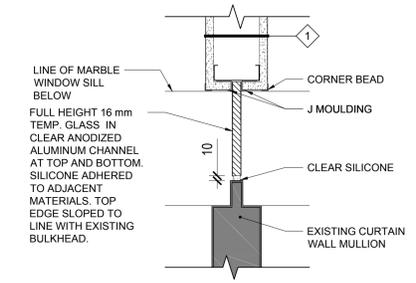
**4** SECTION AT WINDOW HEAD - SECOND FLOOR  
 A600 1:10



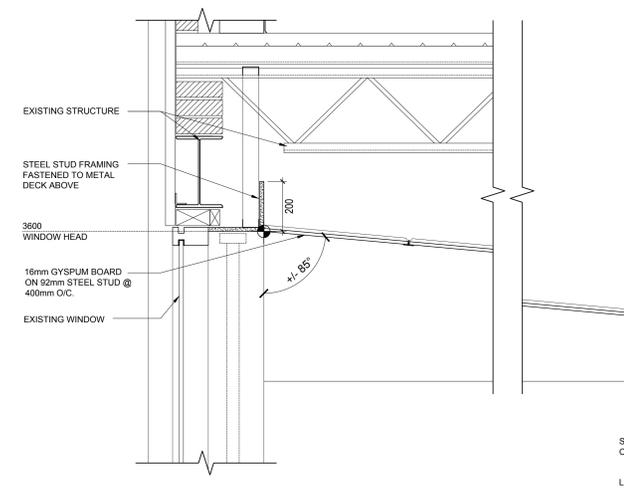
**5** CROSS SECTION AT OPERABLE PARTITION  
 A600 1:20



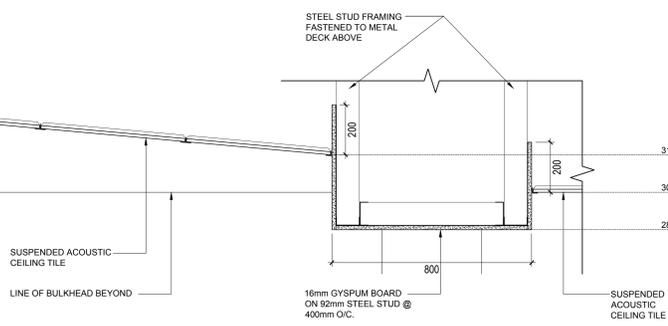
**7** DETAIL - FAN COIL UNIT ALTERATION FOR NEW PARTITION  
 A600 1:5



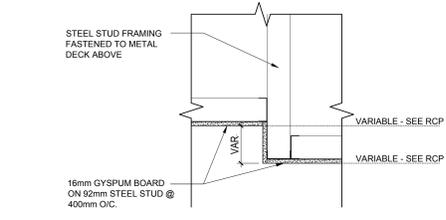
**6** DETAIL - GLASS MULLION JUNCTION  
 A600 1:5



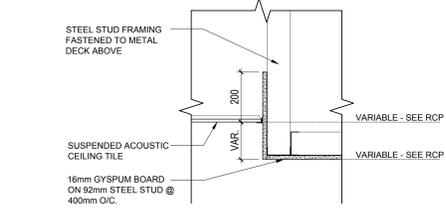
**1** SECTION AT WINDOW HEAD - GROUND FLOOR  
 A600 1:10



**2** DETAIL - ACT TO GWB BULKHEAD  
 A600 1:10



**3** DETAIL - CHANGE IN LEVEL NEW GWB BULKHEAD  
 A600 1:10



**2** DETAIL - ACT TO GWB BULKHEAD  
 A600 1:10

AutoCAD 2013/11/29 \\THASERVER\PROJECTS\2013\1384-ST CATHARINES CONCEPTUAL DESIGN FOR CRA & CSC (REV 1299)\DRAWINGS\WORKING DRAWINGS\1384\_A600\_CEILING\_DETAILS.DWG



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Projet **CRA OFFICE FIT UP** Project

CANADA REVENUE AGENCY  
32-46 CHURCH STREET

ST. CATHARINES, ONT.

Dessin **PLAN DETAILS VESTIBULE** Drawing

Conçu par **Taylor Hazell Architects LTD.** Designed by

Date 2013--10--17

Dessiné par **Abe C.** Drawn by

Date 2013--10--17

Approuvé par **Jill Taylor** Approved by

Date 2013--10--17

Soumission **APC** Tender

Administrateur de projets APC **PCA Project Manager**

No de projet **1384 A700** Project number

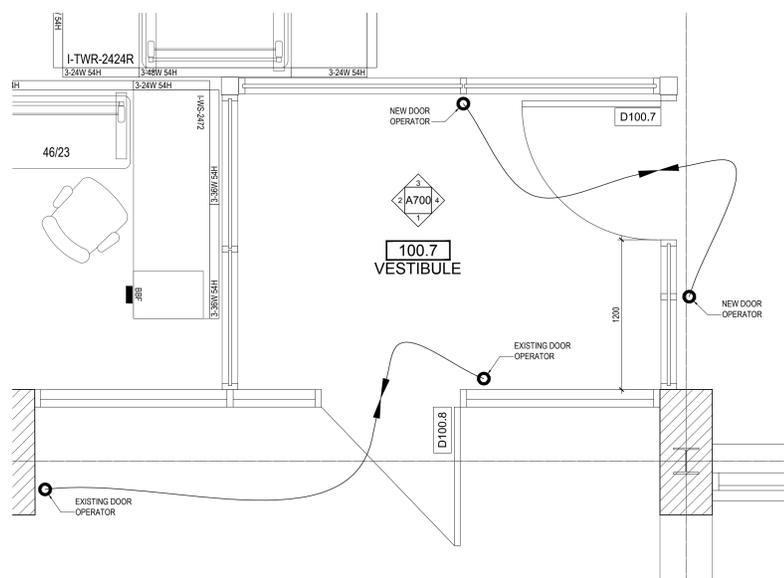
**R.065355.001**

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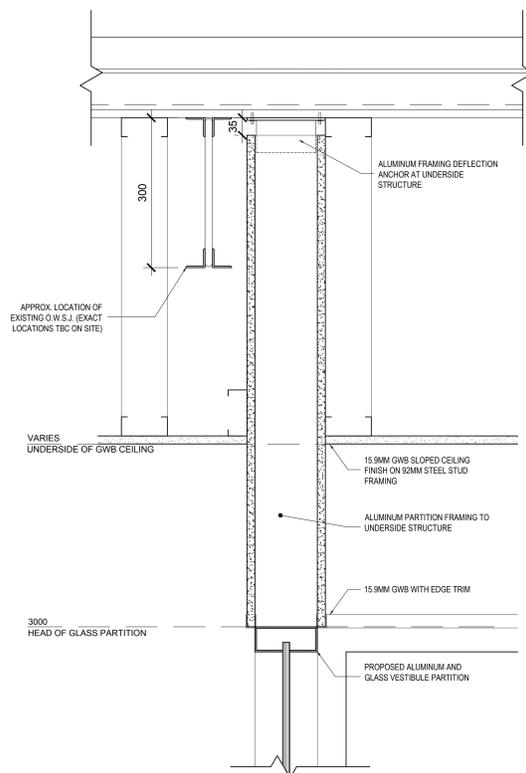
No de classement

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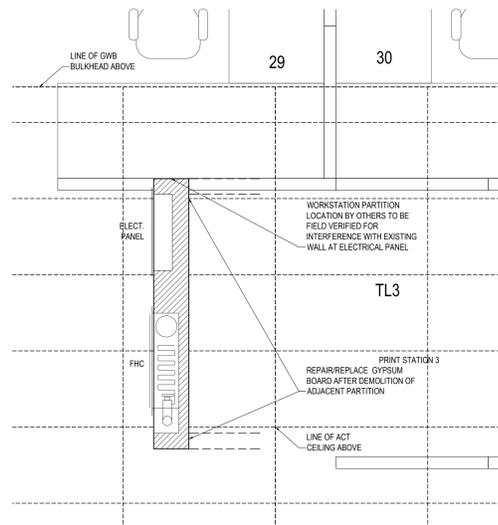
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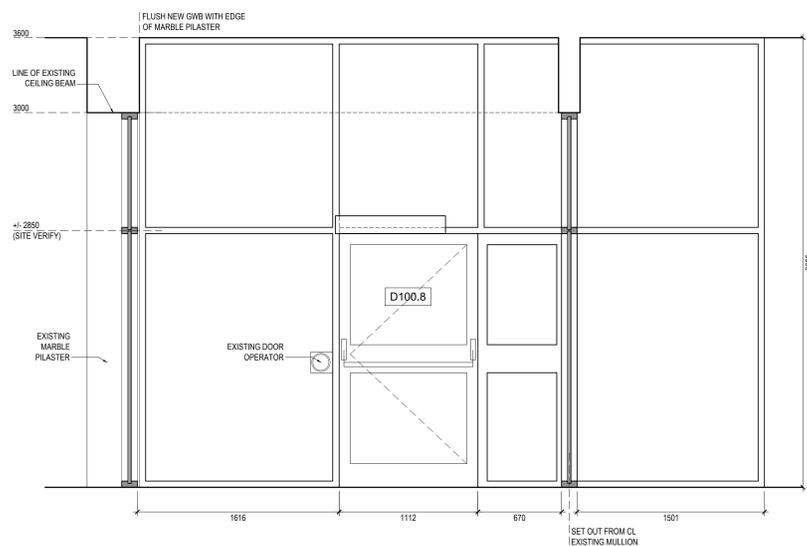
**5 VESTIBULE - PLAN DETAIL**  
A700 1:20



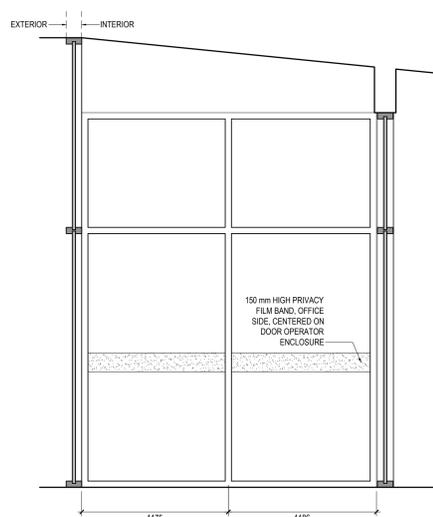
**6 DETAIL AT VESTIBULE WALL HEAD**  
A700 1:5



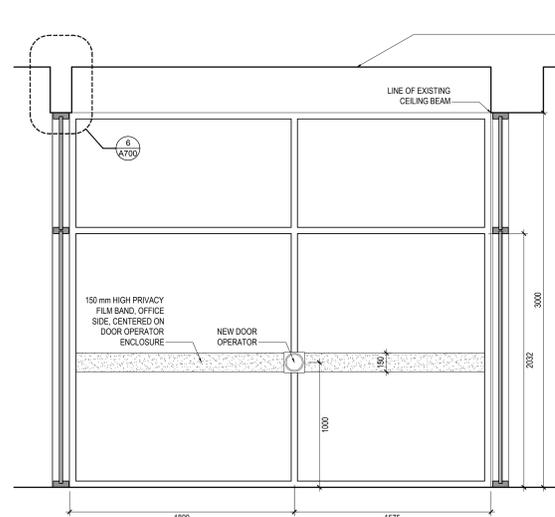
**7 PLAN DETAIL AT FH CABINET**  
A700 1:20



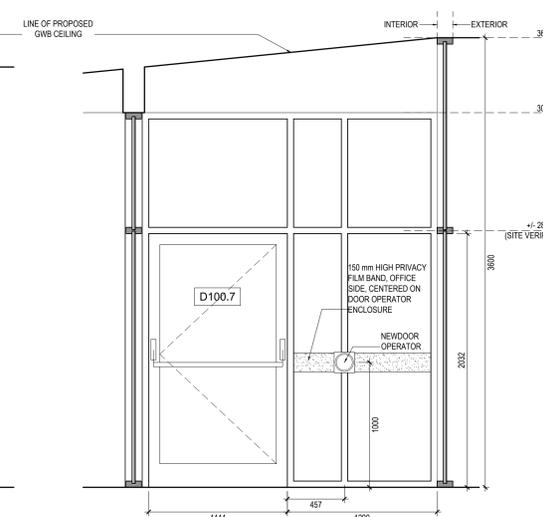
**1 VESTIBULE - INTERIOR ELEVATION**  
A700 1:20



**2 VESTIBULE - INTERIOR ELEVATION**  
A700 1:20



**3 VESTIBULE - INTERIOR ELEVATION**  
A700 1:20



**4 VESTIBULE - INTERIOR ELEVATION**  
A700 1:20



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Projet **CRA OFFICE FIT UP** Project

CANADA REVENUE AGENCY  
32-46 CHURCH STREET  
ST. CATHARINES, ONT.

Dessin Drawing

**DOOR & ROOM FINISH  
SCHEDULES**

Conçu par **Taylor Hazell Architects LTD.** 2013--10-17  
Date

Dessiné par **Abe G.** 2013--10-17  
Date

Approuvé par **Jill Taylor** 2013--10-17  
Date

Soumission Tender

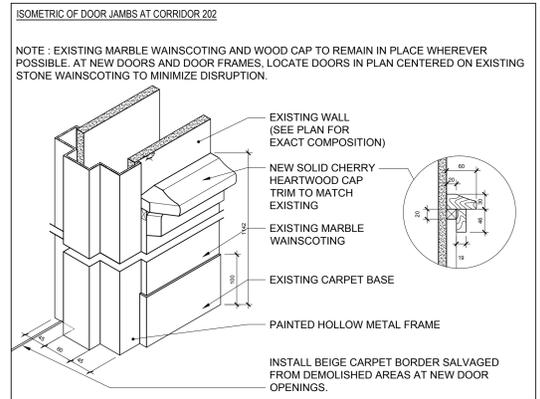
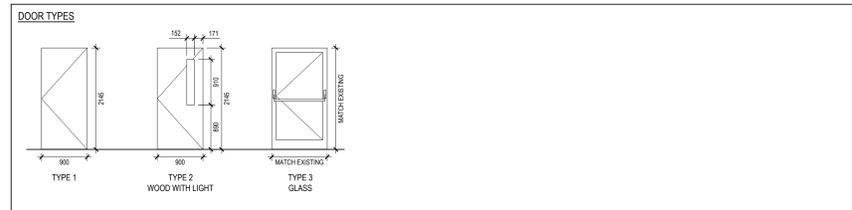
Administrateur de projets APC PCA Project Manager

No de projet **R.065355.001** Project number  
APC PCA

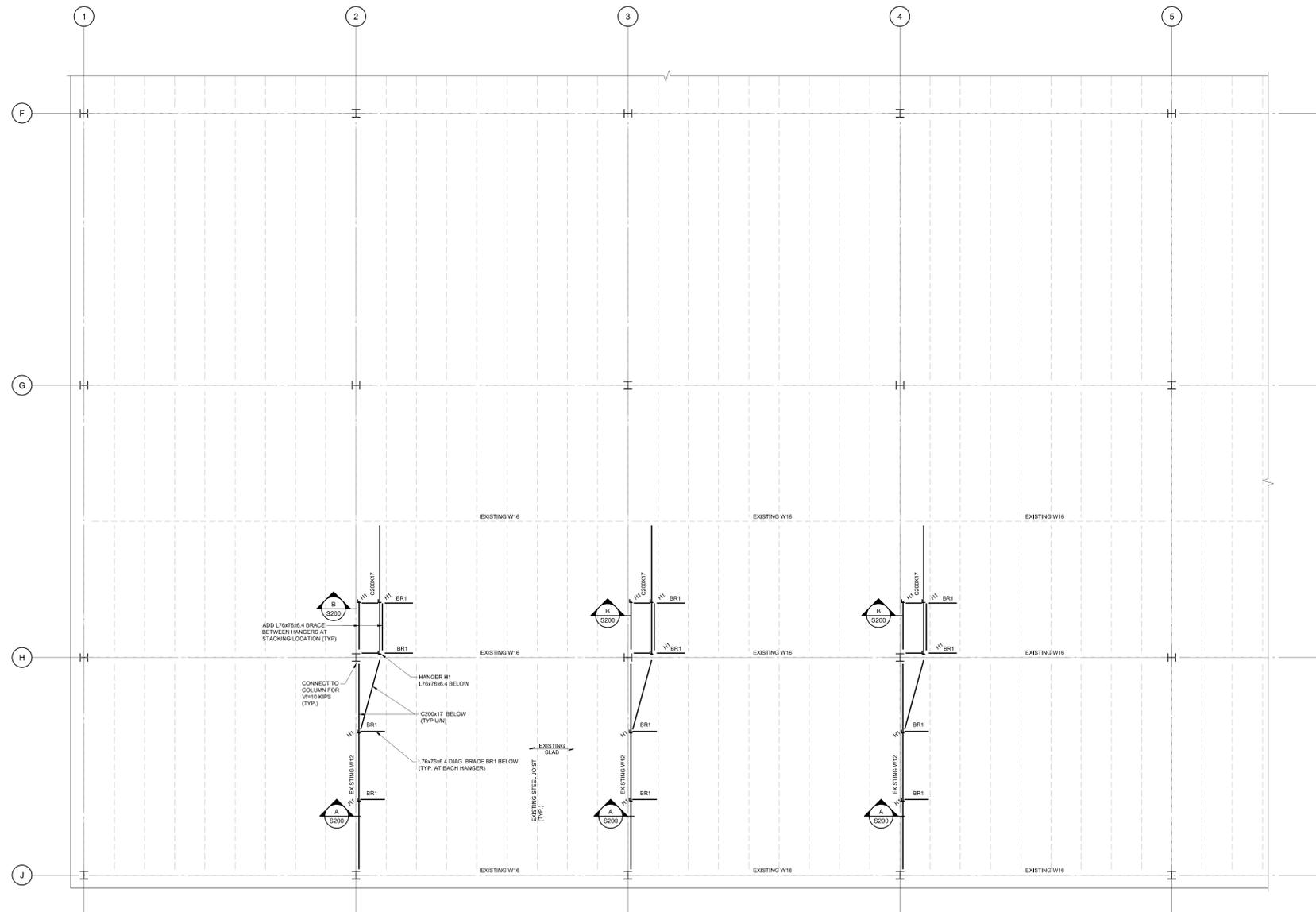
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SCHEDULES.DWG No de classement

No de plan ou dessin File name No feuille Sheet no  
A1000

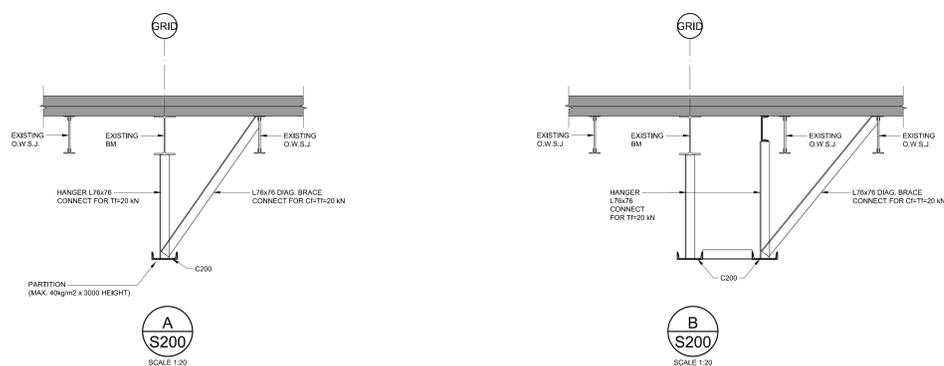
Door Schedule - Ground Floor	Number	Door Type	New / Exist / Reloc.	Width	Height	Thick.	Frame	Door	Exit Door	Fire Rating	Door Operator	Glassing	Door Hardware	Security Devices	Revision
D100.1A	2	New	900	2145	45	HM	WD	-	-	-	GL		Cylindrical Lockset Yale 5400 LN Grade 1 Lever Lock	CR, ES, DC, DA, REX, MS	
D100.1B	2	New	900	2145	45	HM	WD	-	-	-	GL		Cylindrical Lockset Yale 5400 LN Grade 1 Lever Lock	CR, ES, DC, DA, REX, MS	
D100.3	2	New	900	2145	45	HM	WD	-	-	-	GL		Cylindrical Lockset Yale 5400 LN Grade 1 Lever Lock	CR, ES, DC, DA, REX, MS	
D100.4	1	Existing	900	2145	45	HM	WD	-	-	-	-		-	-	
D100.5		Existing	900	2145	45	HM	WD	-	-	-	-		-	-	
D100.6	2	New	900	2145	45	HM	WD	-	-	-	GL		Cylindrical Lockset Yale 5400 LN Grade 1 Lever Lock	CR, ES, DC, DA, REX, MS	
D100.7A	3	Existing	1112	2032	45	ALUM	ALUM	Yes	-	Existing	GL		DO (to match existing at exterior door)	-	
D100.7B	3	New	1112	2032	45	ALUM	ALUM	Yes	-	Yes	GL		DO (to match existing at exterior door)	-	
<b>Door Schedule - Second Floor</b>															
D206.1	1	New	900	2145	45	HM	WD	-	-	-	-		Match existing door hardware at Room 203	-	
D206.2	1	New	900	2145	45	HM	WD	-	-	-	-		Match existing door hardware at Room 203	-	
D206.3	1	Existing reloc.	900	2145	45	HM	WD	-	-	-	-		Existing hardware & door from corner office	-	
D206.4	1	Existing reloc.	900	2145	45	HM	WD	-	-	-	-		Existing hardware & door from corner office	-	
<b>New / Exist / Reloc.:</b>															
New door															
Existing															
Existing Relocated															
<b>Door Notes:</b>															
All door hardware to match existing unless noted otherwise															
Contractor to confirm all door and door frame dimensions on site.															
Door security devices are supplied and installed by security contractor. Electrical contractor to provide backboxes, conduits and pull strings. Rough in for security devices including coordination, door preparation, and door frame preparation is by general contractor.															
<b>Abbreviation:</b>															
ALUM Clear anodized aluminum															
CL Door closer															
CR Card reader by Security. Coordination, back box, conduit and pull string by electrical contractor															
DA Door Alarm by Security. Coordination, back box, conduit and pull string by electrical contractor															
DC Door contact by Security. Coordination, back box, conduit and pull string by electrical contractor															
DO Door operator															
ES Electric Strike by Security. Coordination, back box, conduit and pull string by electrical contractor															
GL 6mm min. clear tempered glass															
KP 200 mm high brushed stainless steel kick plate															
PF Privacy Film on glass															
REX Request to Exit device by Security. Coordination, back box, conduit and pull string by electrical contractor															



Room Finish Schedule	Room Number	Name	Walls	Floor	Ceiling	Comments	Rev.
			N	E	S	W	Base
			MATERIAL FINISH	MATERIAL FINISH	MATERIAL FINISH	MATERIAL FINISH	MATERIAL FINISH
100.1	Reception	GB (EX) PT1	GB PT1	GB PT1	GB (EX) / ST (EX) PT1 /	CER T3 (EX. & RELOC.) CER T1 (EX.) CER T2 (EX.)	INSTALL RELOCATED CER T1 BASE BEHIND DISPLAY UNIT, ONCE REMOVED
100.2	Mail Area	GB PT1	GB PT1	GB PT1	GB PT1	CER T3 (EX. & RELOC.) CER T1 (EX.) CER T2 (EX.)	INSTALL RELOCATED CER T1 BASE ON NEW WALLS
100.3	Corridor	GB PT1	GB PT1	GB PT1	GB (EX) PT1	CER T3 (EX. & RELOC.) CER T1 (EX.)	INSTALL RELOCATED CER T1 BASE ON NEW WALLS
100.4	Interview Room	GB (EX) -	GB (EX) -	GB (EX) -	GB (EX) -	CER T3 (EX.) CER T1 (EX.)	(EX. TO REMAIN)
100.5	Interview Room	GB (EX) -	GB (EX) -	GB (EX) -	GB (EX) -	CER T3 (EX.) CER T1 (EX.)	(EX. TO REMAIN)
100.6	Elevator Lobby	GB (EX) PT1	GB PT1	GB (EX) PT1	GB (EX) PT1	RB (EX) CER T1 (EX.)	ACT (EX)
100.7	Church Street Vestibule	GL -	GL / GB - / PT 1	GL / GB - / PT 1	GL / GB - / PT 1	-	FLOOR GRILLE GB PT10
100.10	Workstations	GB (EX) PT2	GB (EX) PT2	GB (EX) PT2	GB (EX) PT2	RB CPT1	GB / ACT1 PT10 /
100.11	Workstations	GB PT2	GB (EX) PT2	GB (EX) PT2	GB (EX) PT2	RB CPT1	GB / ACT1 PT10 /
100.12	Workstations	GL -	GB PT2	GB (EX) PT2	GB PT2	RB CPT1	GB / ACT1 PT10 /
100.13	Workstations	GL -	GB (EX) PT2	GB (EX) PT2	GB (EX) PT2	RB CPT1	GB / ACT1 PT10 /
201	Reception Zone						(EX. TO REMAIN)
202	Corridor	GB / ST (EX) PT3	GB (EX) PT3	GB (EX) PT3	GB (EX) PT3	CPT (EX) CPT (EX)	GB / ACT1 (EX) PT10 EXISTING CARPET BASE, STONE SLAB WAINSCOTING, WOOD WAINSCOTING CAP TO REMAIN, EXTEND AS REQUIRED ABOVE RELOCATED STONE PANELS AND RESTORE AND BEVEL CUT AT NEW DOORS TO MATCH EXISTING DETAILING, NEW DOORS SPACING TO BE INTEGRATED WITH STONE WAINSCOTING PANEL DIVISIONS, REPAINT WALLS PT3 TO MATCH EX.
203	VDP Area	GB (EX) PT4	GB PT4	GB (EX) PT4	GB (EX) PT4	RB CPT1	PT4 TO MATCH EX. COLUMNS PT2 / RB
203.1	Asst. Dir. Office	GB (EX) PT4	GB PT4	GB (EX) PT4	GB (EX) PT4	RB CPT1	PT4 TO MATCH EX.
204	CBT Training Room	GB (EX) PT5	GB (EX) PT5	GB (EX) PT5	GB (EX) PT5	RB (EX) ACT (EX)	PT5 TO MATCH EX.
205	Meeting Room	GB (EX) -	GB (EX) -	GB (EX) -	GB (EX) -	RB (EX) CPT (EX)	(EX. TO REMAIN)
206.1	Training Room A	GB PT6	GB PT6	GB PT6	GB PT6	RB CPT1	GB / ACT1 PT10 /
206.2	Training Room B	GB PT6	GB PT6	GB PT6	GB PT6	RB CPT1	GB / ACT1 PT10 /
206.3	Training Room C	GB PT6	GB PT6	GB PT6	GB PT6	RB CPT1	GB / ACT1 PT10 /
206.4	Training Room D	GB PT6	GB PT6	GB PT6	GB PT6	RB CPT1	GB / ACT1 PT10 /
<b>Note: Interior finishes to be confirmed with their corresponding interior elevations and section details.</b>							
There is no work proposed in existing rooms toned grey							
Suspended acoustic tile on new grid to match existing grid and tile COC Radar Bluslon 610 x 1220 x 19mm tile, bevelled edge, Bluslon Two24 pattern, 24mm DONN DX grid							
ACT1							
PT							
GL							
CPT1							
RB1							
CER T1							
CER T2							
CER T3							
CER T4							
ST							



PART ROOF FRAMING PLAN  
SCALE 1:50



STRUCTURAL WORK

1. GENERAL
    - 1.1. PROVIDE ALL MATERIAL AND LABOUR REQUIRED FOR THE COMPLETION OF THE WORK. BREAKDOWN OF WORK BY TRADE IS FOR GUIDANCE ONLY AND IS NOT NECESSARILY COMPLETE.
    - 1.2. COORDINATE ALL WORK SHOWN ON THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL, ALL OTHER DISCIPLINES AND EXISTING CONDITIONS (EXISTING CONDITIONS ARE ASSUMED). REPORT ANY INCONSISTENCIES TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK.
    - 1.3. MAKE GOOD ALL EXISTING WORK DISTURBED BY OTHER CONSTRUCTION PROCEDURES.
    - 1.4. DO NOT SCALE THESE DRAWINGS.
  2. CODES AND STANDARDS
    - 2.1. COMPLY WITH THE REQUIREMENTS OF THE 2006 ONTARIO BUILDING CODE IN FORCE AND THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
  3. SUBMITTALS
    - 3.1. SUBMIT FOR REVIEW BEFORE START OF WORK, 4 COPIES OF SHOP DRAWINGS FOR:
      - STRUCTURAL STEEL
    - 3.2. SHOP DRAWINGS FOR: STRUCTURAL STEEL SHALL TO BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN ONTARIO.
    - 3.3. REVIEW OF SHOP DRAWINGS IS ONLY FOR GENERAL CONFORMITY WITH STRUCTURAL CONTRACT DOCUMENTS AND SPECIFICATIONS. COMMENTS MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE STRUCTURAL CONTRACT DOCUMENTS AND SPECIFICATIONS. NOR DO THEY AUTHORIZE ANY CHANGES TO THE CONTRACT. REVIEW OF A SPECIFIC ITEM SHALL NOT INCLUDE REVIEW OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. THE CONTRACTOR'S RESPONSIBILITIES INCLUDE ALL QUANTITIES, DETAIL DIMENSIONS, FIELD MEASUREMENTS, FABRICATION PROCESSES, MEANS, METHODS, SEQUENCES AND PROCEDURES OF CONSTRUCTION. COORDINATION OF WORK WITH ALL TRADES AND PERFORMING ALL WORK IN A SAFE AND SATISFACTORY MANNER. THE REVIEW OF SHOP DRAWINGS DOES NOT IMPLY ANY CHANGE IN ANY OTHER CONSULTANTS' OR PROFESSIONALS' RESPONSIBILITIES RELATED TO DESIGN OF SPECIFIC ITEMS AS OUTLINED BY THE SPECIFICATIONS (SUCH AS STRUCTURAL STEEL CONNECTIONS, STEEL JOISTS, PRECAST ELEMENTS, ETC.).
    - 3.4. AFTER REVIEW, ERECTION DIAGRAMS WILL BE RETURNED TO THE CONTRACTOR STAMPED TO SHOW ONE OF THE FOLLOWING:
      - **NOT REVIEWED** - SHOWS WORK WHICH IS NOT WITHIN THE SCOPE OF STRUCTURAL CONSULTING
      - **REVIEWED** - REVIEWED WITH NO COMMENTS.
      - **NOTED** - REVIEWED WITH COMMENTS NOTED ON DRAWING. SUBMIT TWO FINAL RECORD PRINTS AS SOON AS CORRECTIONS ARE MADE.
      - **RESUBMIT** - REVIEWED WITH COMMENTS NOTED ON DRAWING. CORRECT AND RESUBMIT FOR REVIEW.
  - 3.5. ALLOW A MINIMUM OF 4 WORKING DAYS FOR REVIEW OF EACH SUBMISSION OF SHOP DRAWINGS IN THE STRUCTURAL ENGINEER'S OFFICE. ALLOW MORE TIME WHEN LARGE QUANTITIES OF SHOP DRAWINGS ARE SUBMITTED. SUBMIT IN GENERAL CONFORMITY WITH THE SEQUENCE OF CONSTRUCTION INTENDED. COORDINATE WITH THE CONSULTANT. SHOP DRAWINGS RECEIVED AFTER NOON WILL BE DATE STAMPED AS RECEIVED THE FOLLOWING WORKING DAY.
  - 3.6. IF REQUIRED, CAD FILES OF THE FULL SET OF STRUCTURAL DRAWINGS ARE AVAILABLE "AS-IS", AT COST OF \$100.00 PER SHEET, FOR USE IN THE PREPARATION OF SHOP DRAWINGS. PROVIDED THAT THE OWNER AND THE OWNER'S CONSULTANTS ARE NOT HELD RESPONSIBLE FOR ANY ERRORS OR OMISSIONS ON THE DRAWINGS. THESE CAD DRAWINGS ARE NOT TO BE SCALED.
4. EXISTING STRUCTURE
    - 4.1. EXISTING STRUCTURAL INFORMATION IS BASED UPON DRAWINGS PREPARED BY R.A. HANRIGHT CONSULTING ENGINEER AND DATED OCTOBER 1984.
    - 4.2. TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE EXISTING STRUCTURE DURING CONSTRUCTION.
    - 4.3. EXISTING DRAWINGS CONDITIONS ARE ASSUMED. REPORT ANY VARIATIONS TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK.
    - 4.4. MAKE GOOD ONCE STRUCTURAL WORK IS DONE AND REVIEWED.
  5. STRUCTURAL STEEL
    - 5.1. CONFORM TO CANCSA S16 LIMIT STATES DESIGN OF STEEL STRUCTURES.
    - 5.2. FABRICATOR SHALL BE CERTIFIED BY CANADIAN WELDING BUREAU UNDER REQUIREMENTS OF CSA W47.1, DIVISION 1 OR 2.
    - 5.3. PROTECT COMBUSTIBLE MATERIALS AND FINISHES DURING WELDING OPERATIONS.
    - 5.4. MATERIALS:
      - CHANNEL, ANGLES AND PLATES: CANCSA G40.21, GRADE 300W
      - HIGH STRENGTH BOLTS: ASTM A325M
      - ANCHOR BOLTS: CANCSA G40.21, GRADE 300W
      - FABRICATION: CANCSA S16
      - WELDING: CSA W59
      - PRIMER PAINT: CISCOPMA 2\_75
    - 5.5. ALL STRUCTURAL STEEL CONNECTIONS MUST BE DESIGNED BY A PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR TO CONFORM TO CANCSA S16-01. USE HEADER ANGLES AND HIGH-STRENGTH BOLTS. DESIGN BEAM CONNECTIONS FOR AN END REACTION DUE TO THE UNIFORMLY DISTRIBUTED LOAD CAPACITY OF THE MEMBER UNLESS A GREATER REACTION IS NOTED ON THE DRAWINGS.
    - 5.6. APPLY PRIMER PAINT TO ALL STEELWORK, EXCEPT WHERE ZINC\_RICH PAINT IS CALLED FOR ON THE DRAWINGS. TOUCH-UP PAINT AFTER ERECTION. SURFACES RECEIVING ZINC\_RICH PAINT SHALL FIRST RECEIVE COMMERCIAL BLAST CLEANING.
  6. INSPECTION AND TESTING
    - 6.1. THE CONTRACTOR MUST PROVIDE INSPECTION REPORTS FOR STRUCTURAL STEEL. ALL REPORTS MUST BE PREPARED BY AN INDEPENDENT INSPECTION AND TESTING AGENCY.
  7. CUTTING AND CORING
  8. CONSTRUCTION REVIEW
    - 8.1. NOTIFY THE CONSULTANT 48H PRIOR TO AND COVERING UP THE STRUCTURE WITH FINISHES.
  9. REJECTED WORK
    - 9.1. DO NOT DELIVER TO THE SITE MATERIALS, WHICH ARE KNOWN NOT TO MEET THE REQUIREMENTS OF THE SPECIFICATIONS, IF REJECTED AFTER DELIVERY, REMOVE IMMEDIATELY FROM SITE.

**TAYLOR HAZELL ARCHITECTS**  
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**A** A no. du détail  
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**B** B no. de la feuille—où détaillé  
sheet no. — where detailed

Projet *CRA OFFICE FIT UP* Project

CANADA REVENUE AGENCY  
32-36 CHURCH STREET

ST. CATHERINES, ONT.

Dessin *Part Roof Framing Plan* Drawing

PART ROOF FRAMING PLAN  
GENERAL NOTES  
AND SECTION

Conçu par *JXD* Designed by

Date 2013-11-26

Dessiné par *LKK* Drawn by

Date 2013-11-26

Approuvé par *JJY* Approved by

Date 2013-11-27

Soumission *PCA* Tender

Administrateur de projets APC *PCA* Project Manager

No de projet *R.065355.001* Project number

APC *PCA*

Nom du fichier *R.065355.001* File name

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File no

No de plan ou dessin *S200* File name

No feuille

Sheet no

*S200*

# FITUP FOR CANADA REVENUE AGENCY GOVERNMENT OF CANADA BUILDING

32-46 CHURCH STREET, ST.CATHARINES, ONTARIO  
PROJECT NUMBER: R.065355.001

Public Works and  
Government Services Canada  
Architectural and Engineering Services  
Ontario Region  
Travaux publics et  
Services gouvernementaux Canada  
Services d'architecture et de génie  
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LINEWORK DESIGNATION	
---	NEW WORK
---	EXISTING WORK TO REMAIN
---	EXISTING WORK TO BE REMOVED

VENTILATION LEGEND	
	SUPPLY AIR DUCT
	RETURN OR EXHAUST AIR DUCT
	DENOTES - SUPPLY 105 cfm THRU TYPE 'A' DIFFUSER c/w 10" Ø NECK
	DENOTES - SUPPLY 105 cfm THRU 18"x10" TYPE 'B' GRILLE
	DENOTES - RETURN OR EXHAUST 105 cfm THRU 18"x10" TYPE 'C' GRILLE
	DENOTES - RETURN OR EXHAUST 105 cfm THRU 18"x10" TYPE 'C' GRILLE
	DENOTES - TYPE 'A' V.A.V. BOX 500 cfm MAX. SET POINT 200 cfm MIN. SET POINT
	FAN DESIGNATIONS
	DENOTES - EXISTING VAV BOX 500 cfm MAX SET POINT 200 cfm MIN SET POINT
	ACOUSTIC DUCT LINING
	NEW AIR SUPPLY DIFFUSER
	NEW R/A GRILLE
	FLEXIBLE DUCT
	DOOR UNDERCUT
	TAKE-OFF WITH VOLUME DAMPER
	FLEXIBLE CONNECTION
	FIRE OR SMOKE DAMPER
	FIRE AND SMOKE DAMPER
	VOLUME DAMPER
	MOTORIZED DAMPER
	SPLITTER DAMPER
	RELOCATED EXISTING MECH. EQUIPMENT (VAV, LIGHT TRIPPER, THERMOSTAT)
	NEW MECH. EQUIPMENT (VAV, DIFFUSER, THERMOSTAT)

EQUIPMENT LEGEND	
	FF- DENOTES FORCE FLOW HEATER 1 - DENOTES FORCE FLOW HEATER NUMBER
	DIFFUSERS & GRILLES A - DIFFUSER TYPE B - DENOTES CONNECTION SIZE- mm. C - DENOTES AIR FLOW (L/S)
	VAV OR FAN POWERED BOX A - UNIT NUMBER B - UNIT SIZE- mm. C - DENOTES AIR FLOW (L/S)

HEATING & COOLING LEGEND	
	HEATING WATER SUPPLY
	HEATING WATER RETURN
	CONDENSATE DRAIN
	REFRIGERANT SUCTION
	REFRIGERANT LIQUID
	THERMOSTAT/TEMPERATURE SENSOR
	VARIABLE SPEED CONTROLLER
	INDIVIDUALLY CONTROLLED PARTITION MOUNTED THERMOSTAT (EXISTING)

ABBREVIATION LEGEND	
S/A	SUPPLY AIR
R/A	RETURN AIR
CTE	CONNECT TO EXISTING
DN	DOWN
ST	STORM

VALVES & SPECIALTIES LEGEND	
	ISOLATING VALVE
	BALANCE VALVE
	CONTROL VALVE
	CHECK VALVE
	STRAINER
	WALL FIN CONVACTOR
	FIRE HOSE CABINET
	FIRE EXTINGUISHER

DRAWING LIST		
DWG NO.	DRAWING NAME	SCALE
M-100	MECHANICAL LEGENDS, DRAWING LIST, AND SCHEDULES	N.T.S.
M-410	GROUND FLOOR PLAN - HVAC DUCTWORK - NEW	1:100
M-410D	GROUND FLOOR PLAN - HVAC DUCTWORK - DEMOLITION	1:100
M-420	SECOND FLOOR PLAN - HVAC DUCTWORK - NEW	1:100
M-420D	SECOND FLOOR PLAN - HVAC DUCTWORK - DEMOLITION	1:100
M-510	GROUND LEVEL FLOOR PLAN - HVAC PIPING - DEMOLITION AND NEW	1:100
M-520	SECOND LEVEL FLOOR PLAN - HVAC PIPING - DEMOLITION AND NEW	1:100
M-600	MECHANICAL EXISTING CONDITIONS- FOR INFORMATION ONLY	N.T.S.
M-610	MECHANICAL DETAILS	N.T.S.
M-620	EXISTING CONTROL SYSTEM - SCHEMATICS AND DETAILS	N.T.S.

VARIABLE AIR VOLUME BOX SCHEDULE							
SYMBOL	INLET SIZE (mm)	AIR FLOW (L/S) DESIGN RANGE		SIZE HxW (mm)	MANUFACTURER	MODEL NO.	REMARKS
		MIN.	MAX.				
A	125	28	61	305x203			1,2,3
B	150	33	80	305x203			1,2,3

REMARKS:  
1. ALL VAV BOXES SHALL BE COMPLETE WITH A MINIMUM OF 1000 mm ATTENUATOR.  
2. VAV DDC CONTROLS SHALL BE SUPPLIED AND INSTALLED BY THE CONTROLS CONTRACTOR FOR INSTALLATION BY THE VAV BOX MANUFACTURER.  
3. ALL BOXES SHALL BE EQUIPPED WITH TEMPERATURE SENSORS AT THE OUTLET OF THE BOX AND SHALL HAVE THE ABILITY TO COMMUNICATE THIS TEMPERATURE WITH THE BAS.

GRILLE AND DIFFUSER SCHEDULE											
Symbol	Type	Border	Fastening	Damper	Finish Colour	Size	No. of Slots	Specialty	Manufacturer	Model No.	Comments
A	SUPPLY DIFFUSER	-	-	-	-	600x600	-	-	-	-	-
B	RETURN DIFFUSER	-	-	-	-	-	-	-	-	-	PERFORATED
C	LINEAR BAR GRILLE	-	-	-	-	-	NOTE 1	-	-	-	-

REMARKS:  
1. REFER TO DRAWING FOR SIZE.  
2. FOR DRY WALL APPLICATION BORDER FRAME TYPE SF, FOR LAY-IN TILE APPLICATION BORDER FRAME TYPE LT.  
3. PROVIDE ALUMINUM PLASTER FRAME FOR DRYWALL APPLICATION INSTALLATION. REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS.  
4. FASTENING AS PER ARCHITECTURAL CEILING PLAN.

CONVECTOR SCHEDULE												
Tag No.	EWI	LWT	WATT/M	No. of Rows/Panels	Height (mm)	LENGTH (mm)	DEPTH (mm)	FIN SIZE (mm)	Pipe Size MM	Manufacturer	Model No.	REMARKS
CV-A	82	71	1663	2	610	NOTE 2	203	102	157			

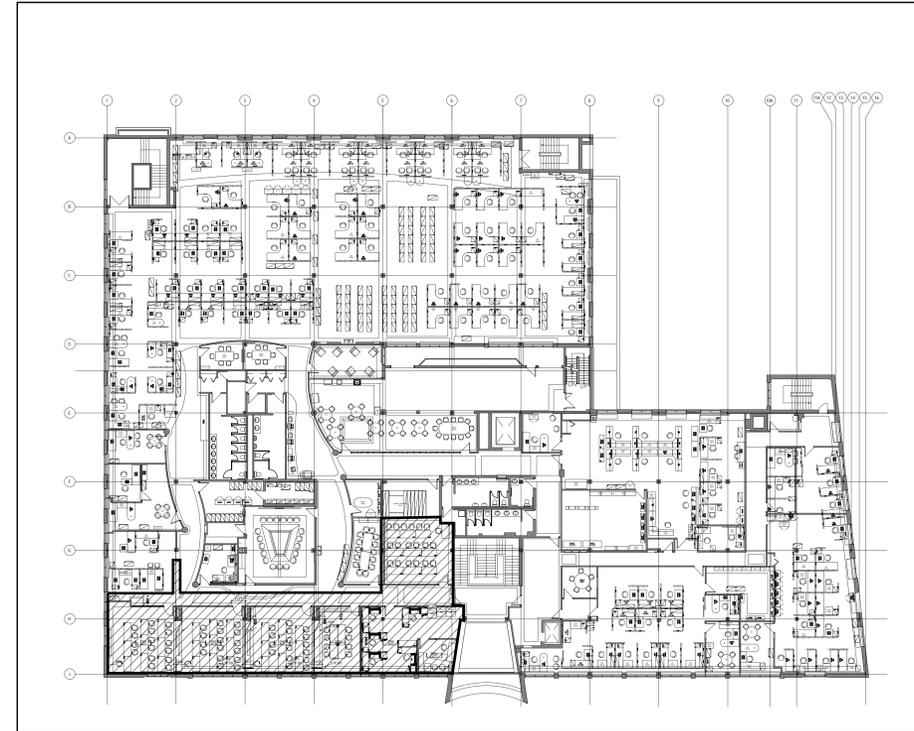
REMARKS:  
1-CONVECTOR SCHEDULE SHALL BE READ IN CONJUNCTION WITH DETAILS ISSUED AS PART OF THIS DRAWINGS. REVISE HEAT OUTPUTS AS PER REVISED CONVECTOR HEIGHTS.  
2-FOR CONVECTOR LENGTH REFER TO DRAWING PIPING DRAWINGS.

PACKAGED AIR CONDITIONERS WITH REMOTE CONDENSER SCHEDULE												
TAG NO.	SERVING AREA	AIR FLOW (L/S)	ESP (Pa)	NOMINAL COOLING (kW)	STYLE	BLOWER MODELER			CONDENSER MODELER			
						V/Ph	MCA	MAX Fume, A	MODEL	V/Ph	MCA	MAX Fume, A
AC-1,2,3,5	VARIES	270	125	5.3	SPLIT TYPE	208/1			208/1	15	20	
AC-4	ROOM 206.4	153	125	3.5	SPLIT TYPE	208/1			208/1	15	20	

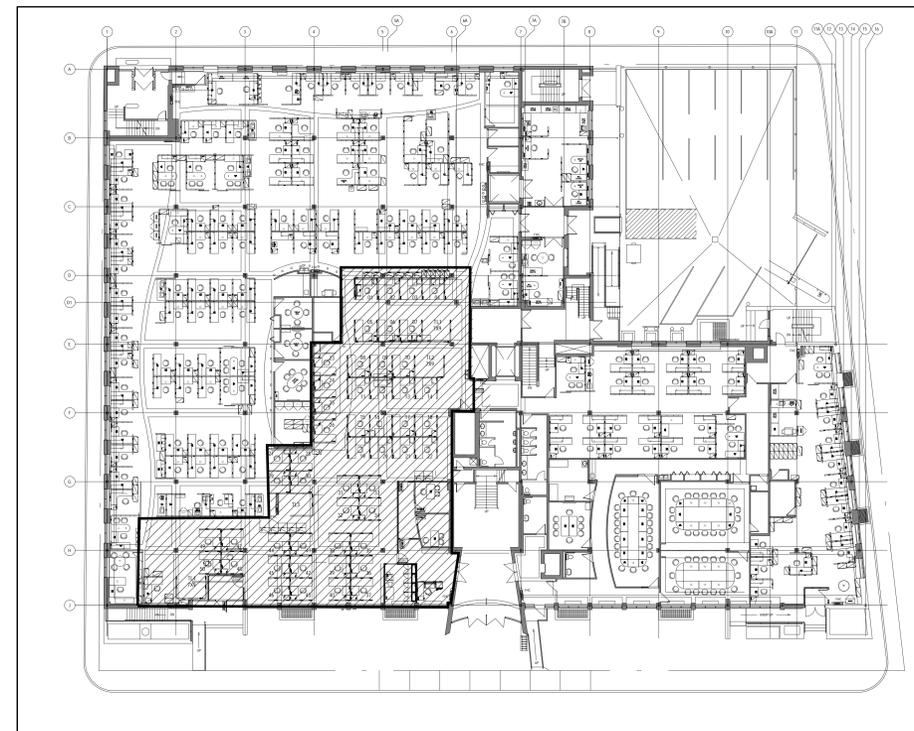
REMARKS:  
1. UNITS TO BE SELF-CONTAINED COMPLETE WITH WALL MOUNTED PROGRAMMABLE THERMOSTAT, SUB BASE, FIRE RATE FLEXIBLE HOSES, PROVIDE ISOLATION VIBRATOR.  
2. STANDARD OF ACCEPTANCE: MITSUBISHI, SANYO, CARRIER. DESIGN IS BASED ON DAKIN.  
3. UNIT TO BE SUPPLIED PRE-CHARGED.  
4. INSTALL AS PER MANUFACTURER INSTRUCTIONS.  
5. EACH UNIT REQUIRED SEPARATE ELECTRICAL FEED. ELECTRICAL FEED BY DIV.16. CONTROL WIRING BETWEEN CONDENSER & EVAPORATOR BY DIV.15.  
6. DISCONNECT FOR CONDENSER & EVAPORATOR BY DIV.16.  
7. UNIT TO BE PROVIDED WITH MANUFACTURER INSTALLED LOW TEMPERATURE KIT (-40° F & CRANK CASE HEATER).  
8. UNIT TO BE SUITABLE FOR WALL INSTALLATION.  
9. INDOOR UNIT WEIGHT: 26.5 lbs  
10. CONDENSER UNIT WEIGHT: 93 lbs

FORCE FLOW HEATER SCHEDULE											
TAG NO.	SERVE	V/Ph	SUPPLY WATT	ENT LWT L/S	ENT KW	ENT LWT L/S	ENT KW	STYLE	MANUFACTURER/ MODEL NO.	COMMENTS	
FF-1,11	VESTIBULE 100.7	208/1	98	288	11.9	82	60	0.17	15.4	HORIZONTAL RECESSED	1,2,3,4

REMARKS:  
1. UNIT TO BE CONTROLLED BY THERMOSTATS. THERMOSTAT BY DIV.15  
2. UNIT TO BE COMPLETED WITH FRONT COLLAR OUTLET AND BOTTOM STAMPED LOUVER.  
3. UNIT SHALL BE ACCESSIBLE FROM THE BOTTOM.  
4. UNIT CAPACITY IS BASED ON LOW SPEED.



2 SECOND FLOOR - LOCATION PLAN  
1:250



1 GROUND FLOOR - LOCATION PLAN  
1:250

revisions	revisions	date
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Projet CRA OFFICE FIT UP

CANADA REVENUE AGENCY  
32-46 CHURCH STREET

ST. CATHARINES, ONT.

Dessin Drawing

MECHANICAL LEGENDS,  
DRAWING LIST,  
AND SCHEDULES

METERS  
1 0 1 2 3 4 5

Conçu par Designed by

CROSSEY ENGINEERING LTD. 2013--11-29 Date

Dessiné par Drawn by

2000-12-24 Date

Approuvé par Approved by

2000-12-24 Date

Soumission Tender

Administrateur de projets APC PCA Project Manager

No de projet Project number

R.065355.001

APC PCA

Nom du fichier File name No de classement

No de plan ou dessin File name No feuille Sheet no

M-100

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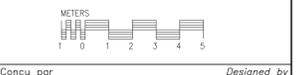
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Projet **CRA OFFICE FIT UP** Project

CANADA REVENUE AGENCY  
32-46 CHURCH STREET  
ST. CATHARINES, ONT.

Dessin **GROUND FLOOR PLAN HVAC DUCTWORK--NEW** Drawing



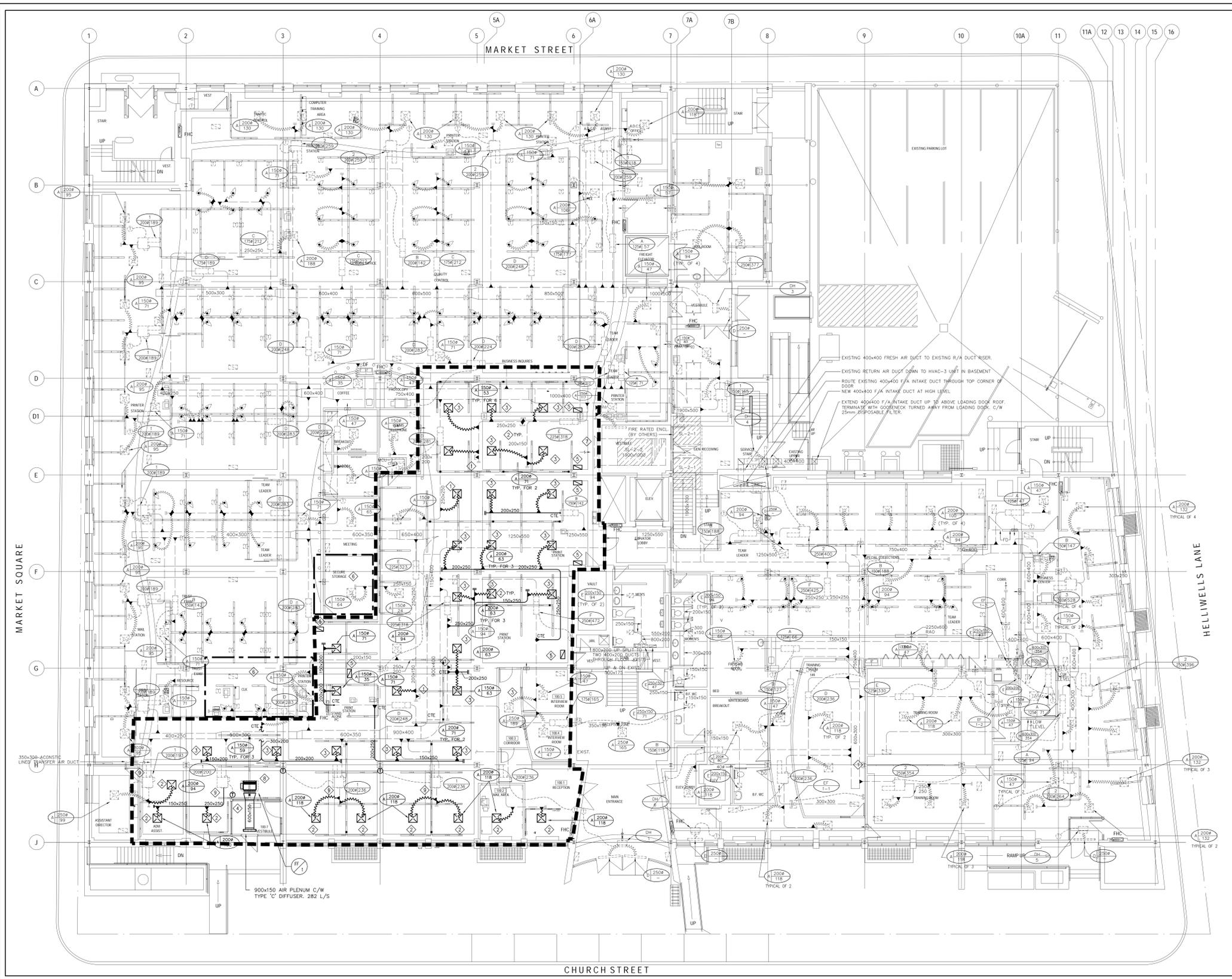
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Approuvé par **HK** 2000--12--24  
Date  
Soumission **PCA**  
Tender

Administrateur de projets APC **PCA Project Manager**

No de projet **R.065355.001**  
Project number  
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**File no**  
No de plan ou dessin **File name** No feuille **Sheet no**  
**M-410**



1 GROUND FLOOR PLAN -- HVAC DUCTWORK  
M-410 1:100

**GENERAL NOTES:**  
1--ALL EXISTING FAN POWER BOXES & VAV BOXES SHALL BE RE-BALANCED TO MATCH NEW AIR REQUIREMENTS.

- CONSTRUCTION NOTES:**
- 1 RELOCATE EXISTING TEMPERATURE SENSORS. (TYPICAL)
  - 2 MOVE DIFFUSER TO NEW LOCATION TO FIT THE NEW RCP. PROVIDE NEW FLEXIBLE DUCT.
  - 3 CONNECT NEW DIFFUSER WITH FLEXIBLE DUCT TO EXISTING MAIN S/A DUCTWORK
  - 4 NEW CEILING MOUNTED RECESSED TYPE FORCE FLOW HEATER. FOR SCHEMATIC AND DETAILS REFER TO DRAWING M-100
  - 5 RELOCATE ALL EXISTING RETURN AIR GRILLE TO MATCH NEW RCP.
  - 6 AREA NOT CURRENTLY IN SCOPE OF WORK IS BEING AFFECTED. RE-BALANCE DIFFUSER.
  - 7 PROVIDE TEMPORARY FILTER FOR MAIN RETURN OPENING
  - 8 INSTALL TO SUIT SITE CONDITIONS.
  - 9 EXISTING FAN POWER BOXES TO OPERATE AS VAV. TURN OFF POWER TO THE UNIT.

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 32-46 CHURCH STREET  
 ST. CATHARINES, ONT.

Dessin *GROUND FLOOR PLAN - HVAC DUCTWORK DEMOLITION* Drawing

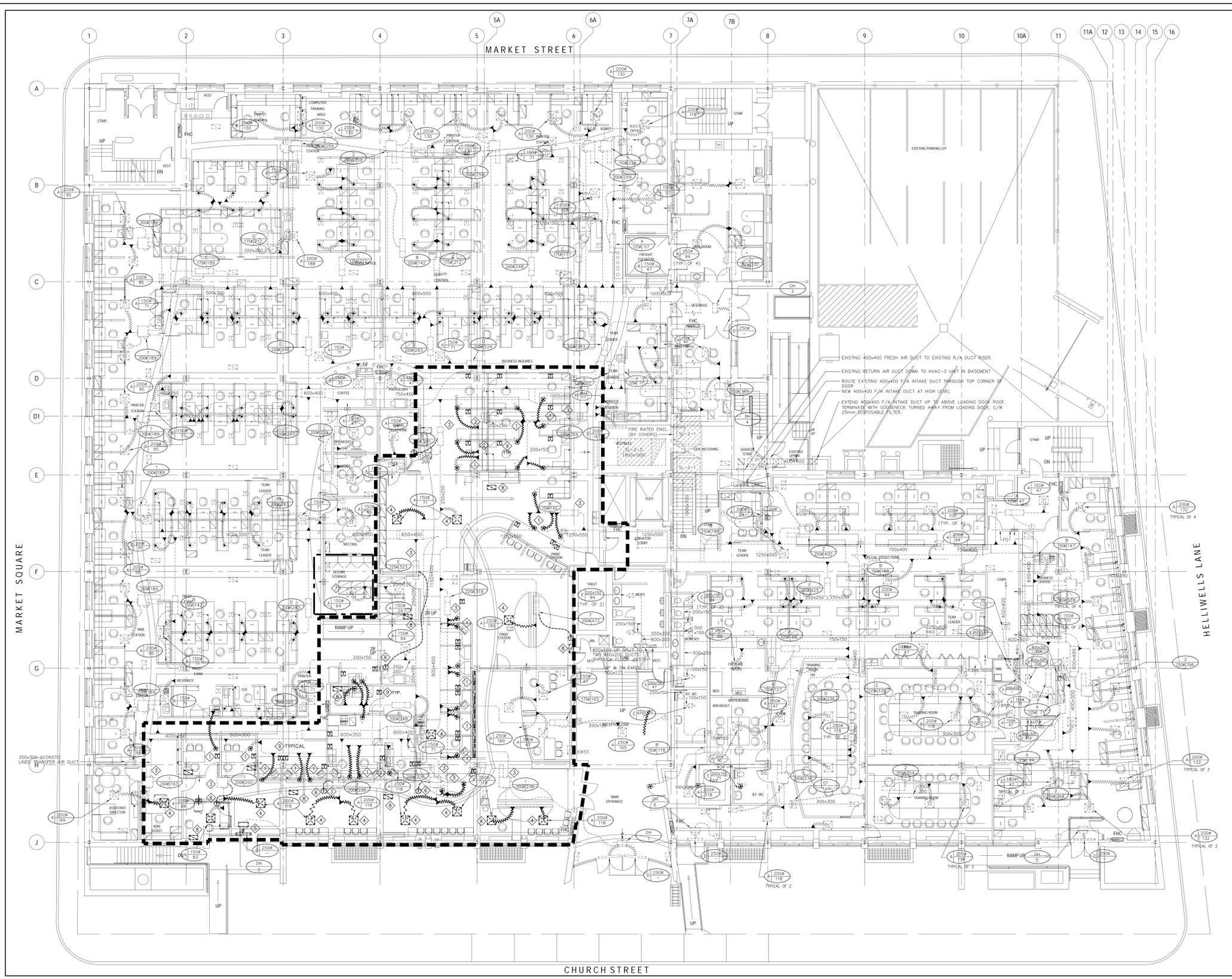


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 APC *PCA*

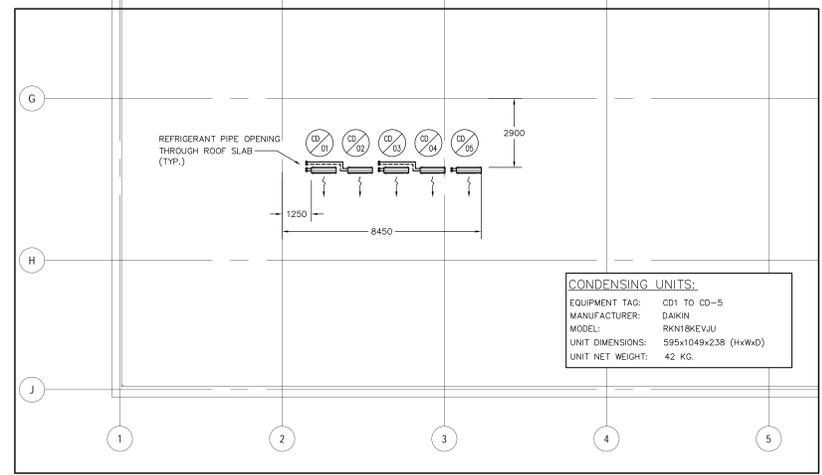
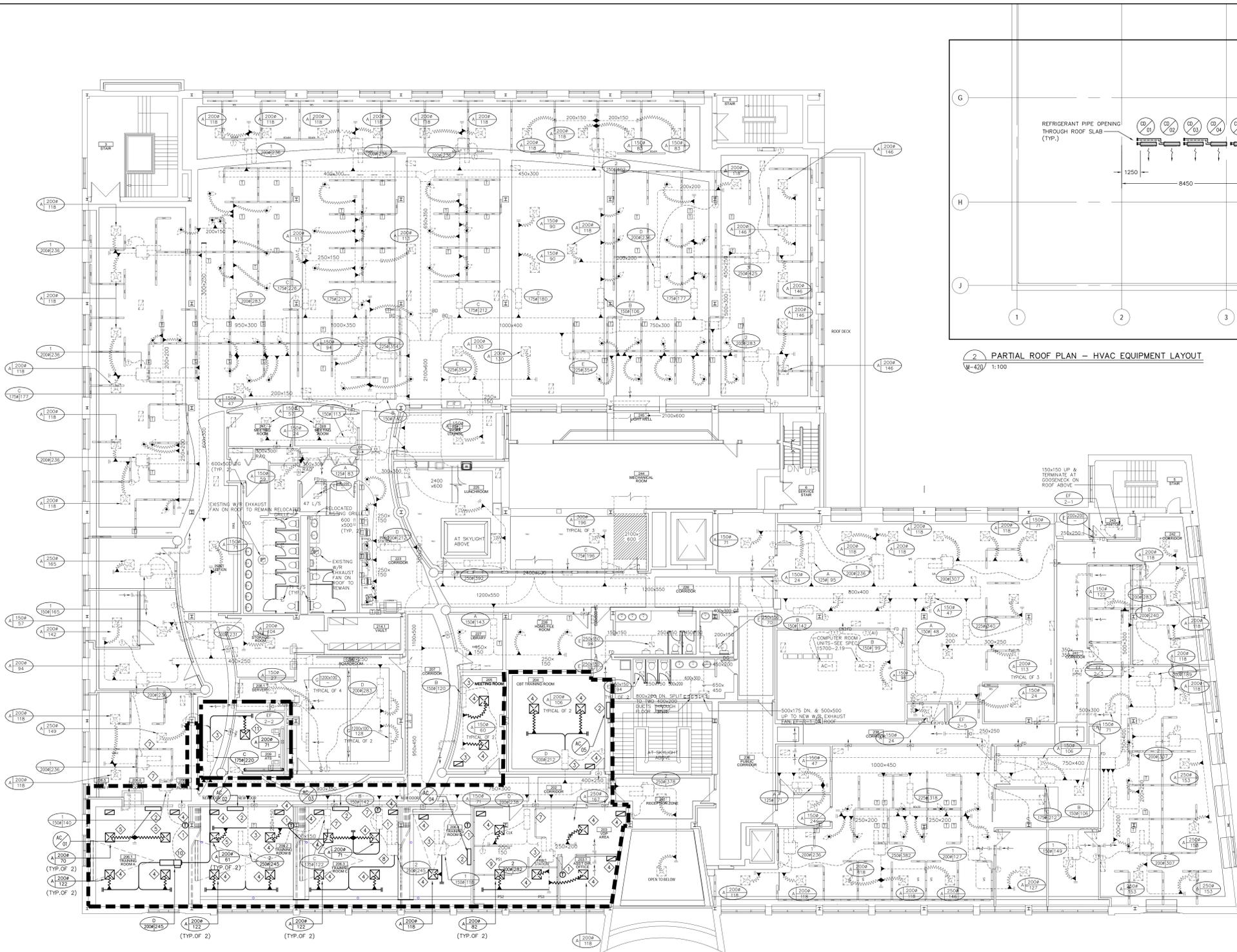
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 No de plan ou dessin *M-410* File name No feuille Sheet no



1 GROUND FLOOR PLAN - HVAC DUCTWORK  
 M-410 1:100

- CONSTRUCTION NOTES:**
- ◇ REMOVE EXISTING DIFFUSER AND FLEXIBLE CONNECTION. BLANK OFF THE BRANCH WITH SHEET METAL.
  - ◇ KEEP THE EXISTING BRANCH INLET FOR NEW DUCT CONNECTION.
  - ◇ VAV BOX OR FAN POWER BOX TO REMAIN.
  - ◇ RELOCATE EXISTING DIFFUSER TO MATCH THE NEW CEILING PLAN. PROVIDE NEW FLEXIBLE DUCT. FOR NEW LOCATION REFER TO DRAWING M-410
  - ◇ DISCONNECT PIPING AND REMOVE EXISTING DOOR HEATER. THERMOSTAT TO REMAIN. FOR NEW DOOR HEATER REFER TO DRAWING M-410
  - ◇ RELOCATE EXISTING TEMPERATURE SENSOR TO MATCH NEW ARCHITECTURAL LAYOUT. FOR NEW LOCATION OF SENSORS REFER TO DRAWING M-410 AND SCHEDULES. (TYPICAL)
  - ◇ AREA NOT CURRENTLY IN SCOPE OF WORK WHICH IS AFFECTED. RE-BALANCE DIFFUSER.
  - ◇ RELOCATE RETURN AIR GRILLE TO MATCH THE NEW CEILING
  - ◇ REMOVE INDIVIDUALLY MOUNTED PARTITION THERMOSTATS C/W ALL ASSOCIATED MECHANICAL ASSEMBLIES.

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**CONDENSING UNITS:**  
 EQUIPMENT TAG: CD1 TO CD-5  
 MANUFACTURER: DAIKIN  
 MODEL: RKNTBKEVJU  
 UNIT DIMENSIONS: 595x1049x238 (HxWxD)  
 UNIT NET WEIGHT: 42 KG.

2 PARTIAL ROOF PLAN - HVAC EQUIPMENT LAYOUT  
 M-420/ 1:100

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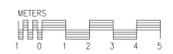
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Dessin *SECOND FLOOR PLAN - HVAC DUCTWORK - NEW* Drawing



1 SECOND FLOOR PLAN - HVAC DUCTWORK  
 M-420/ 1:100

**GENERAL NOTES:**

- 1- ALL EXISTING FAN POWER BOXES & VAV BOXES SHALL BE RE-BALANCED TO MATCH NEW AIR REQUIREMENTS.
- 2- FAN POWER BOXES SHALL ACT AS VAV BOXES. THERMOSTAT AND EXISTING ELECTRICAL CONNECTIONS TO REMAIN.

**CONSTRUCTION NOTES:**

- ◇ RELOCATE EXISTING TEMPERATURE SENSORS.
- ◇ PROVIDE NEW AC-UNIT. EACH AC-UNIT TO BE c/w ASSOCIATED CONDENSING UNIT LOCATED ON THE ROOF.
- ◇ EXISTING UNITS TO REMAIN AND REBALANCED TO AIR FLOW AS INDICATED.
- ◇ RELOCATE EXISTING DIFFUSER TO MATCH NEW RCP. RE-BALANCE THE S/A TO AMOUNT SHOWN ON PLAN.
- ◇ PROVIDE NEW DIFFUSER.
- ◇ PROVIDE NEW DIFFUSER.
- ◇ EXISTING VAV TO REMAIN.
- ◇ EXISTING FAN POWER BOX TO BE COORDINATED WITH ARCHITECT TO PREVENT INTERFERING WITH PARTITION WALL.
- ◇ PROVIDE NEW DIFFUSER.
- ◇ PROVIDE NEW VAV BOX.
- ◇ CONNECT NEW DIFFUSER IN ITS ROOM TO VAV BOX "C" AND RE-BALANCE THE SYSTEM. NEW SUPPLY AIR FROM VAV BOX "C" SHALL BE 220 L/S

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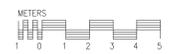
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32-46 CHURCH STREET  
**ST. CATHARINES, ONT.**

Dessin **SECOND FLOOR PLAN - HVAC DUCTWORK DEMOLITION** Drawing



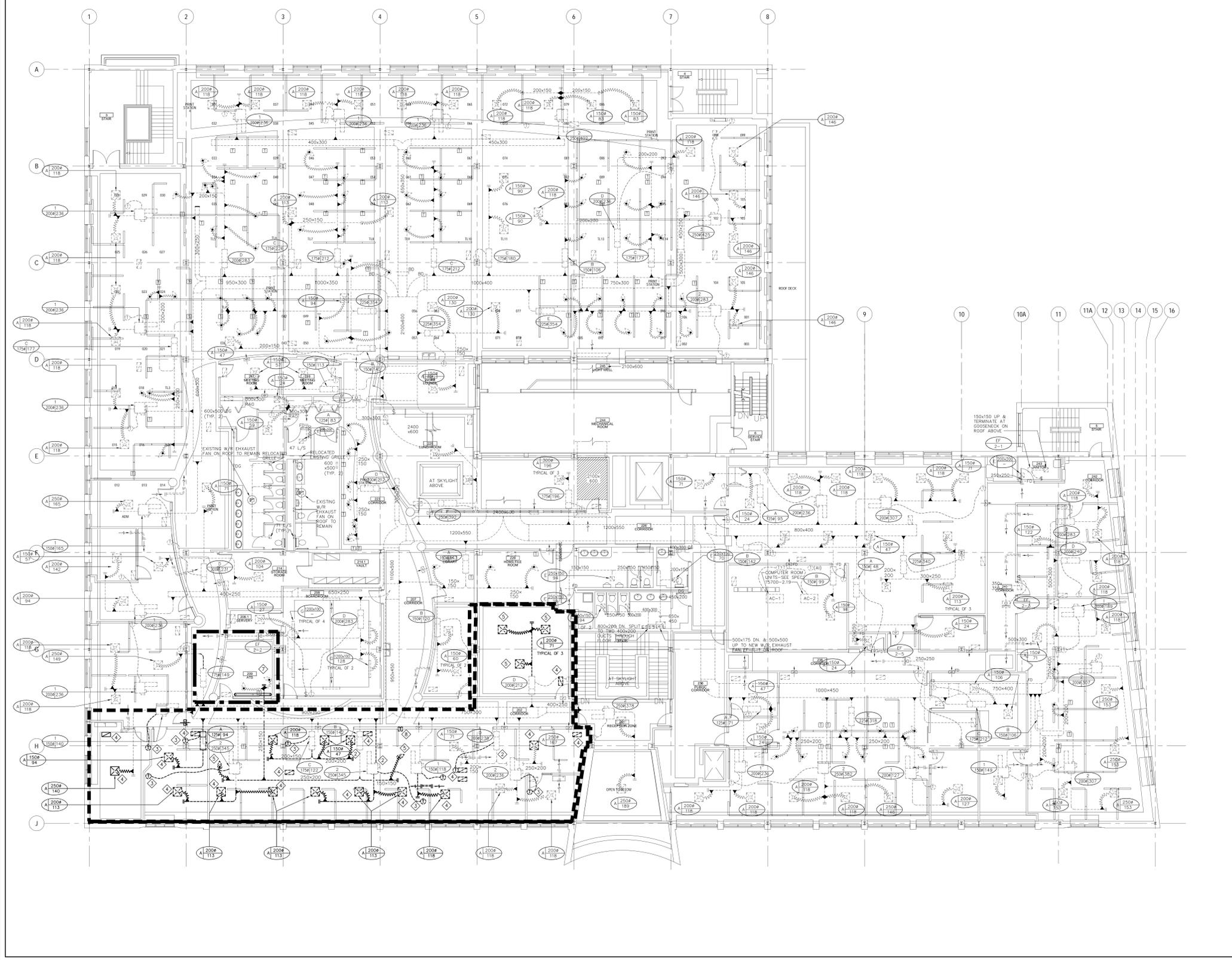
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Soumission **PCA Project Manager** Tender

Administrateur de projets APC  
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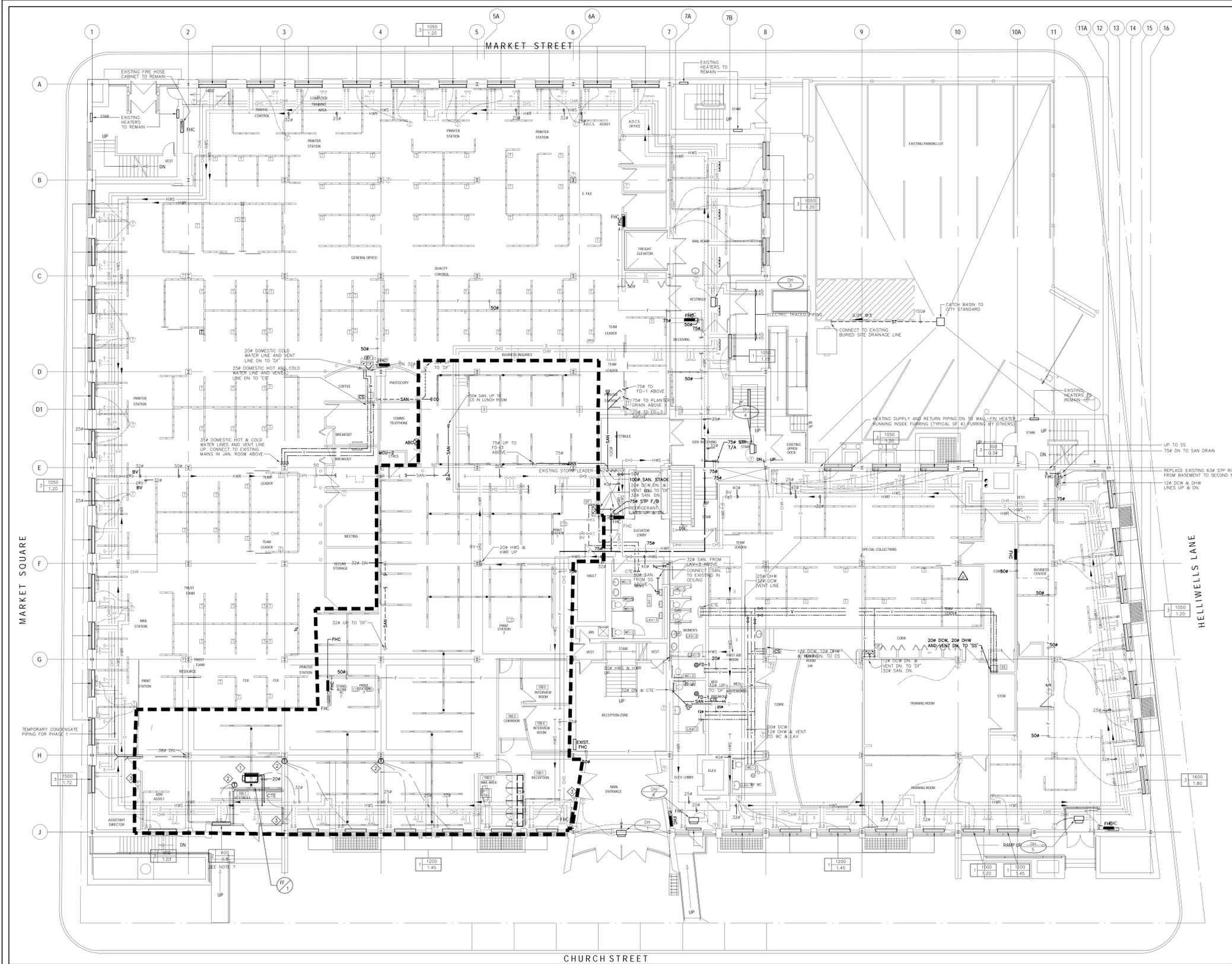


1 SECOND FLOOR PLAN - DEMOLITION - HVAC DUCTWORK  
M-4200 1:100

**CONSTRUCTION NOTES:**

- ◇ RUN REFRIGERANT LINES FROM UNIT TO CONDENSER UNIT ON ROOF. FOR DETAILS REFER TO DRAWING M-100 DETAIL 3.
- ◇ EXISTING FAN POWER BOX TO REMAIN. REMOVE DUCTWORK AS INDICATED.
- ◇ RELOCATE EXISTING TEMPERATURE SENSOR TO MATCH NEW LAYOUT.
- ◇ RELOCATE EXISTING SUPPLY DIFFUSERS AND RETURN AIR GRILLES TO MATCH THE NEW CEILING LAYOUT.
- ◇ REMOVE EXISTING DIFFUSER AND FLEXIBLE CONNECTION. BLANK OFF THE BRANCH WITH SHEET METAL.
- ◇ REMOVE EXISTING DIFFUSER AND FLEXIBLE CONNECTION. BLANK OFF THE BRANCH WITH SHEET METAL.
- ◇ ALTHOUGH A/T'S ROOM IS OUT OF SCOPE OF WORK PROVISION SHALL BE CONSIDERED TO DISCONNECT AND REMOVE S/A DUCT. THE EXISTING DIFFUSERS IN ITS ROOM SHALL BE RECONNECTED TO ADJACENT VAV BOX "C". FOR CONNECTION DETAIL REFER TO DRAWING M-420.
- ◇ REMOVE INDIVIDUALLY MOUNTED PARTITION THERMOSTATS C/W ALL ASSOCIATED MECHANICAL ASSEMBLIES.

AutoCAD 2013/11/29 G:\DRAWINGS\2013\12356.DWG (ST. CATHARINES)\WORKING\M-4200.DWG

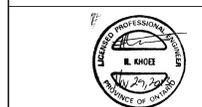


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 detail no.  
**B** B no. de la feuille - où détaillé  
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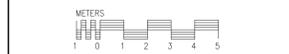
Projet *CRA OFFICE FIT UP* Project

CANADA REVENUE AGENCY  
 32-46 CHURCH STREET

ST. CATHARINES, ONT.

Dessin *GROUND FLOOR PLAN - HVAC PIPING DEMOLITION AND NEW* Drawing

GROUND FLOOR PLAN -  
 HVAC PIPING  
 DEMOLITION AND NEW



Conçu par *CROSSEY ENGINEERING LTD.* Designed by  
 Date 2013-11-29

Dessiné par *HK* Drawn by  
 Date 2000-12-24

Approuvé par *HK* Approved by  
 Date 2000-12-24

Soumission *PCA* Tender

Administrateur de projets APC *PCA* Project Manager

No de projet *R.065355.001* Project number

APC *PCA* File name

Nom du fichier *PCA* No de classement

No de plan ou dessin *M-510* File name No feuille Sheet no

M-510

1 GROUND FLOOR PLAN - HVAC PIPING  
 M-510 1:100

- CONSTRUCTION NOTES:**
- ◇ REVIEW EXISTING DOOR HEATER AND SUBMIT REPORT OF STATUS PRIOR TO REMOVAL. PROVIDE NEW CEILING MOUNTED FORCE FLOW HEATER AND .CONNECT MAIN HWS/R LINE TO NEW HEATER WITH 200P PIPES. FORCE FLOW HEATER TO BE CONNECTED TO EXISTING TEMPERATURE SENSORS.
  - ◇ RELOCATE EXISTING TEMPERATURE SENSORS AND CONNECT WALL FIN CONVECTORS TO THEM. TEMPERATURE SENSORS SHALL BE USE COMMONLY BETWEEN CONVECTORS AND VAV/FAN POWER BOXES IN HEATING MODE.
  - ◇ EXISTING TEMPERATURE SENSOR TO REMAIN. CONNECT TEMPERATURE SENSOR TO NEW FORCE FLOW HEATER.

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Projet *CRA OFFICE FIT UP* Project

CANADA REVENUE AGENCY  
32-46 CHURCH STREET

ST. CATHARINES, ONT.

Dessin *SECOND FLOOR PLAN HVAC PIPING DEMOLITION & NEW* Drawing

1 SECOND FLOOR PLAN - HVAC PIPING  
M-520 1:100



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Date 2013-11-29

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Date 2000-12-24

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Date 2000-12-24

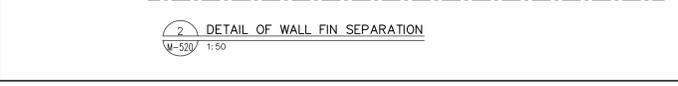
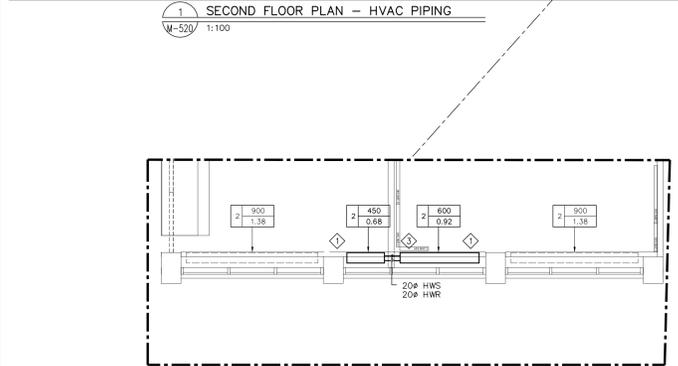
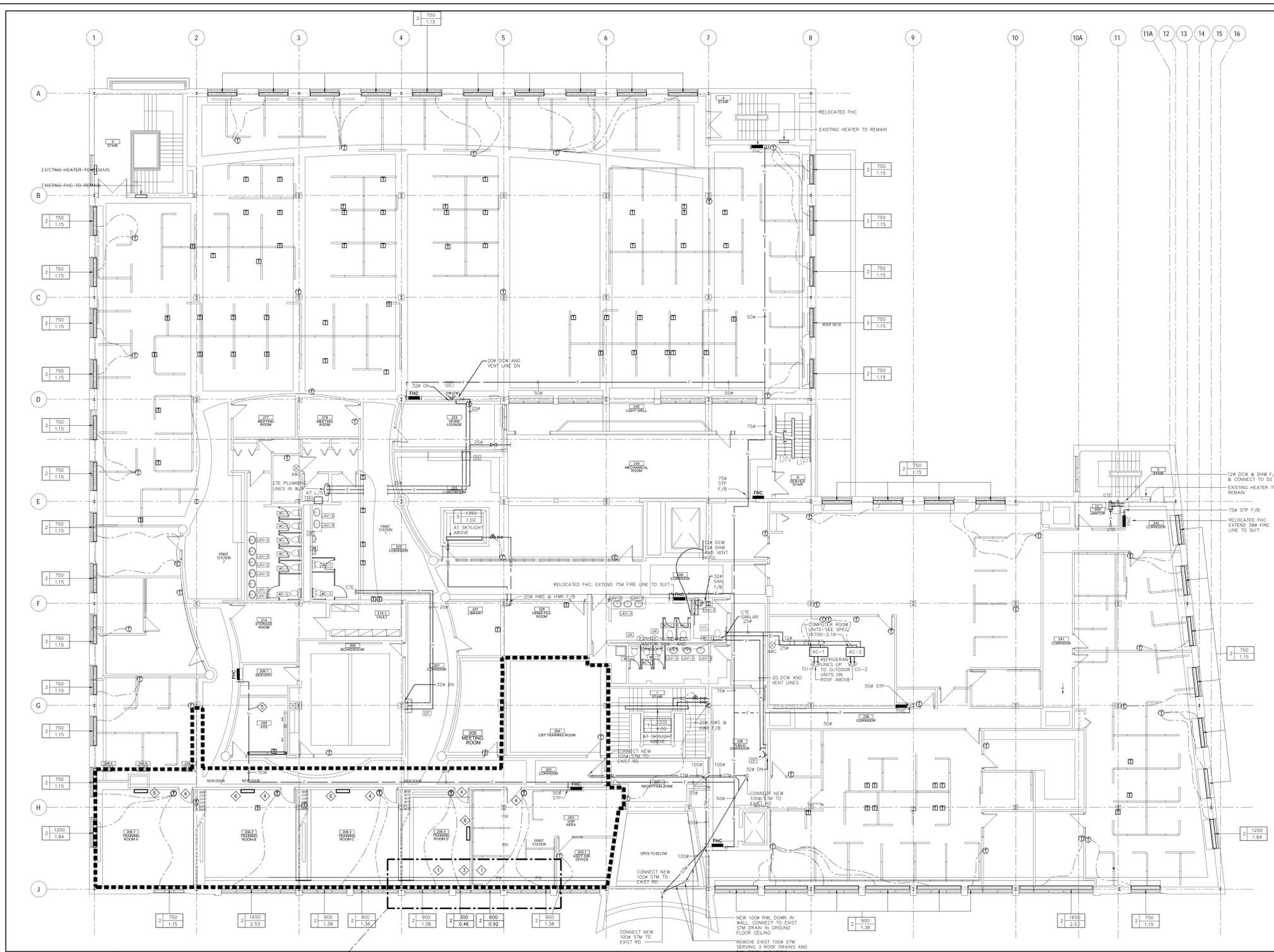
Soumission *PCA* Tender

Administrateur de projets *APC* PCA Project Manager

No de projet *R.065355.001* Project number  
APC PCA

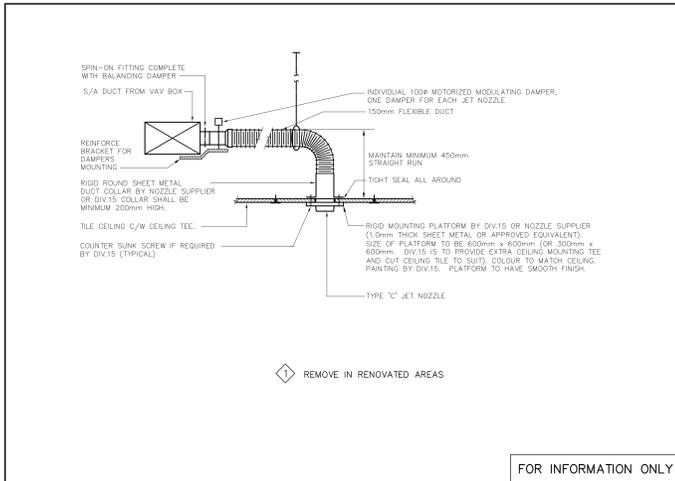
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No de plan ou dessin *M-520* File name No feuille Sheet no  
M-520



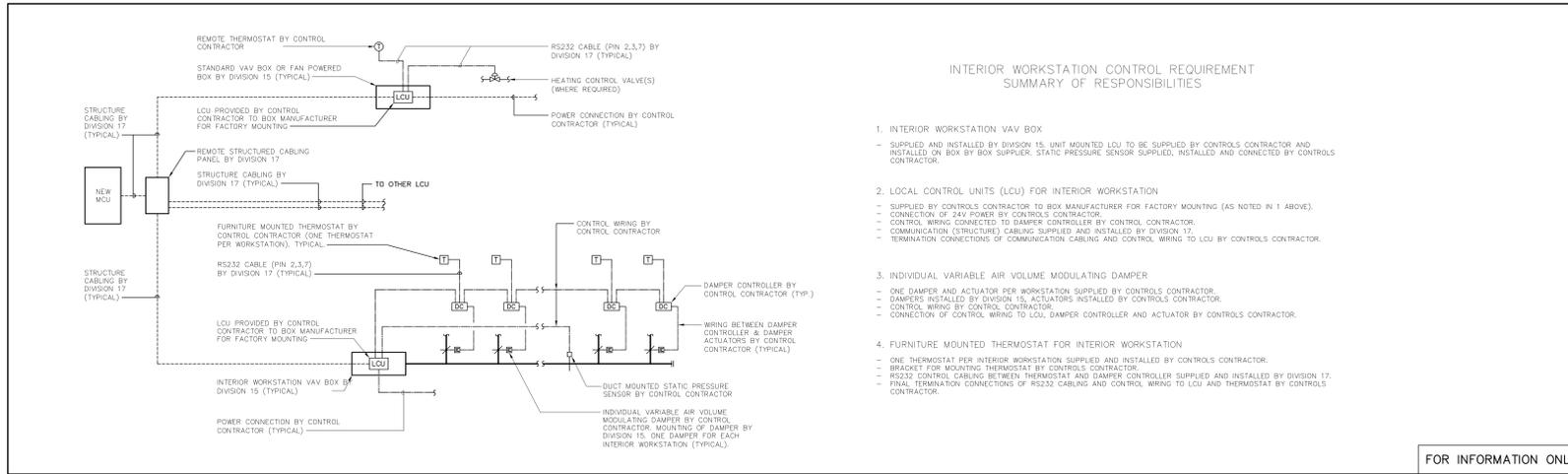
2 DETAIL OF WALL FIN CONVECTOR  
M-520 N.T.S.

- CONSTRUCTION NOTES:**
- PROVIDE TWO NEW WALL FIN ENCLOSURES, NEW ENCLOSURES TO MATCH THE EXISTING REFER TO PHOTO 3 ON THIS DRAWING. PROVIDE TWO WALL FIN ELEMENTS, RE-USE EXISTING ISOLATING CONTROL VALVES. CONTRACTOR TO ALLOW FOR FREEZING OF THE PIPES IF REQUIRED.
  - RESERVED.
  - SEAL OPENING WHERE PIPES PENETRATE DRYWALL.
  - RELOCATE EXISTING TEMPERATURE SENSORS AND RE-CONNECT TO WALL FIN CONTROL VALVES.
  - EXISTING TO REMAIN
  - PROVIDE 25 MM PUMPED CONDENSATE LINE FOR THE NEW SUPPLEMENTARY AC UNITS. TERMINATE DRAINS ON ROOF.



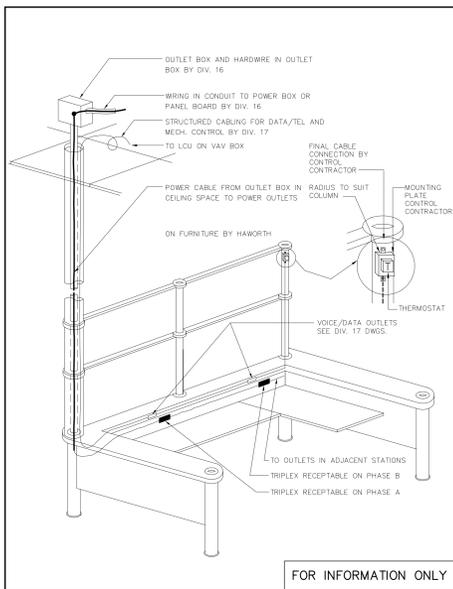
FOR INFORMATION ONLY

1 JET NOZZLE INSTALLATION DETAIL (FOR INTERIOR WORKSTATION)  
M-600/ NTS



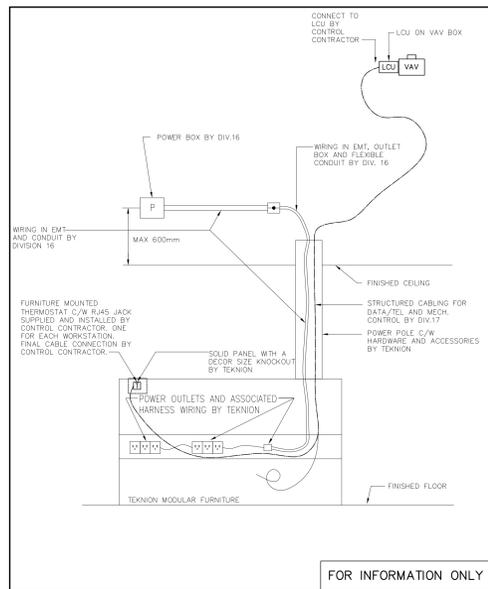
FOR INFORMATION ONLY

2 CONTROL/STRUCTURE CABLING SYSTEM INTEGRATION RESPONSIBILITIES  
M-600/ NTS



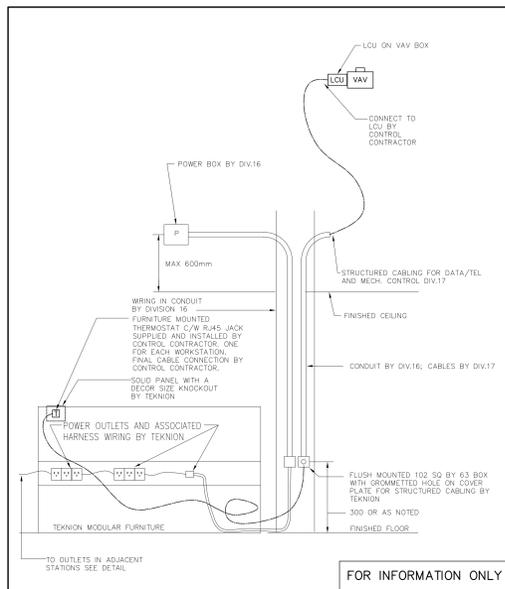
FOR INFORMATION ONLY

3 TYPICAL CONTROL WIRING AND THERMOSTAT MOUNTING DETAIL TO EXISTING HAWORTH FURNITURE  
M-600/ NTS



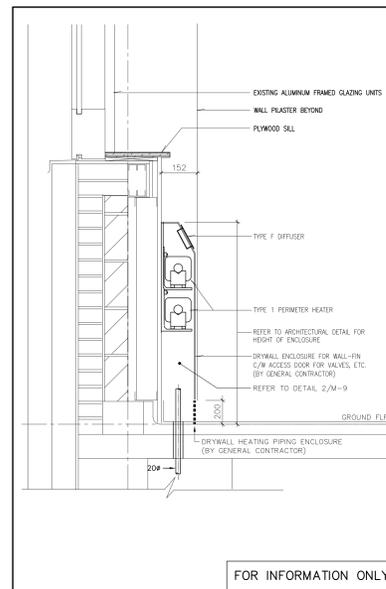
FOR INFORMATION ONLY

4 TYPICAL CONTROL WIRING TO MODULAR FURNITURE VIA POWER POLE  
M-600/ NTS



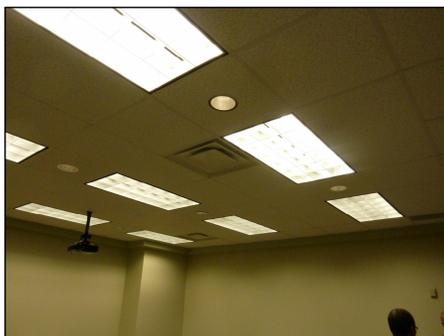
FOR INFORMATION ONLY

5 TYPICAL CONTROL WIRING TO MODULAR FURNITURE FROM WALL OR COLUMN  
M-600/ NTS

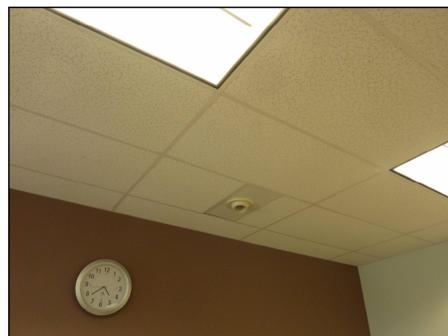


FOR INFORMATION ONLY

6 WALL FIN HEATER DETAIL-TYPE 1 (FOR UNDER WINDOW APPLICATION)  
M-600/ NTS



7 EXISTING SUPPLY AIR DIFFUSERS ON SECOND FLOOR - NEW DIFFUSERS TO MATCH EXISTING  
M-600/ NTS



8 EXISTING "JET" TYPE DIFFUSERS TO BE REMOVED AND REPLACED WITH STANDARD 600x600 SUPPLY AIR DIFFUSERS.  
M-600/ NTS



9 EXISTING EGG-GRADE RETURN : NEW EGG GRATES USED IN VICINITY OF EXISTING ONES TO MATCH  
M-600/ NTS



10 JET ZONE DIFFUSER THERMOSTATS TO BE DISMANTLED- WORK INCLUDES REMOVING ASSOCIATED DAMPERS AND CONTROLS.  
M-600/ NTS



11 EXISTING DIFFUSERS ON GROUND FLOOR - NEW DIFFUSERS TO MATCH EXISTING  
M-600/ NTS



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Projet CRA OFFICE FIT UP

CANADA REVENUE AGENCY  
32-46 CHURCH STREET

ST. CATHARINES, ONT.

Dessin Drawing

MECHANICAL  
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Date

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HK 2013-11-29  
Date

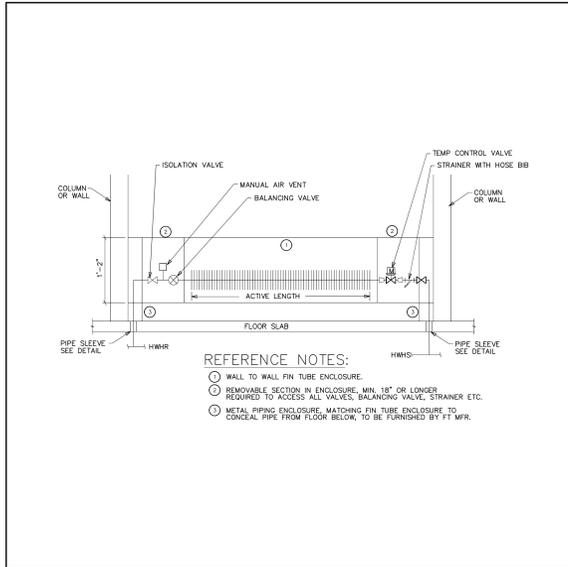
Soumission Tender

Administrateur de projets APC PCA Project Manager

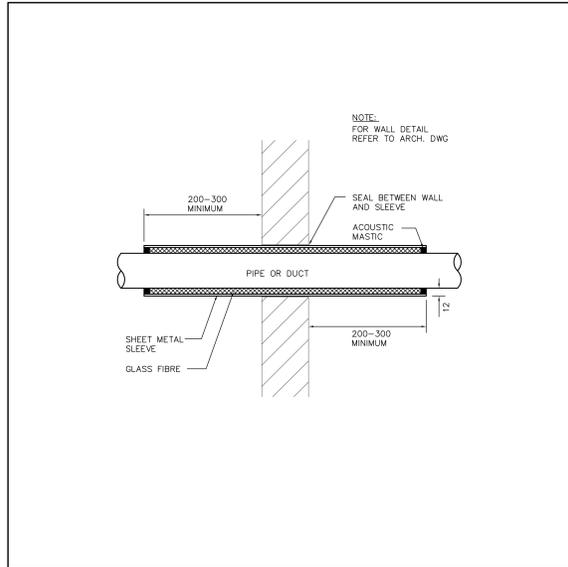
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R.065355.001

Nom du fichier File name No de classement

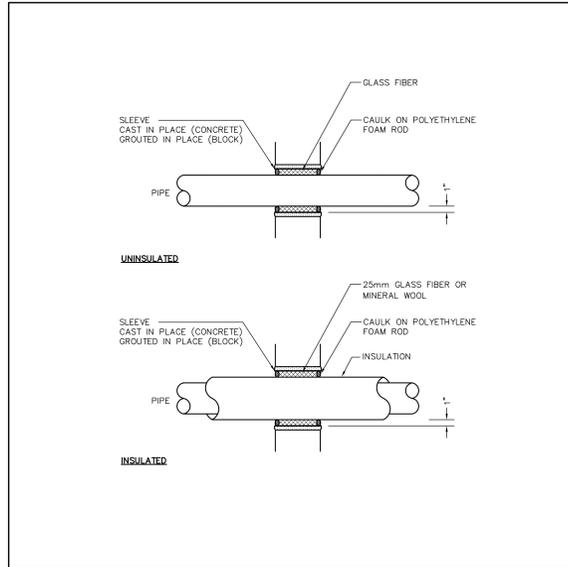
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M-600



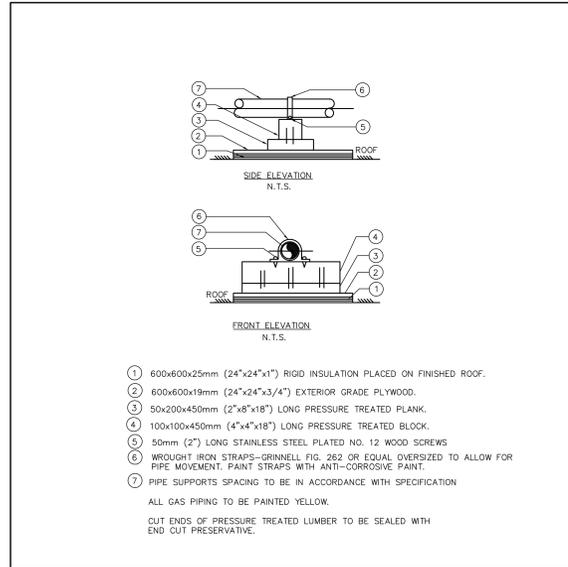
1 TYPICAL HOT WATER FIN-TUBE PIPING DETAIL  
 M-610 NTS



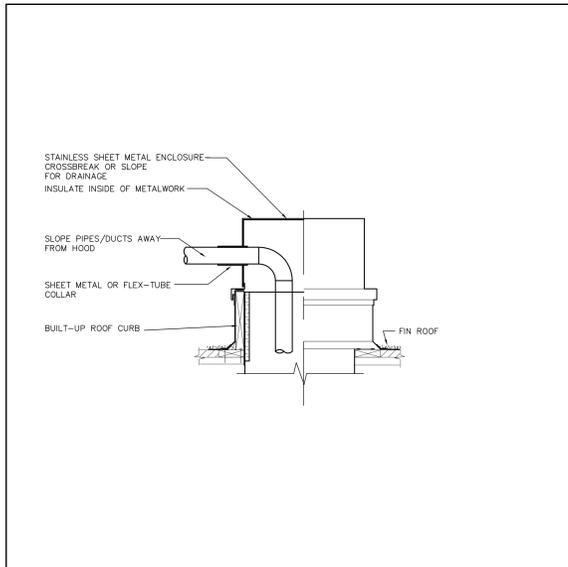
2 PIPE OR DUCT PENETRATION THROUGH SINGLE SOUND ISOLATED WALL  
 M-610 NTS



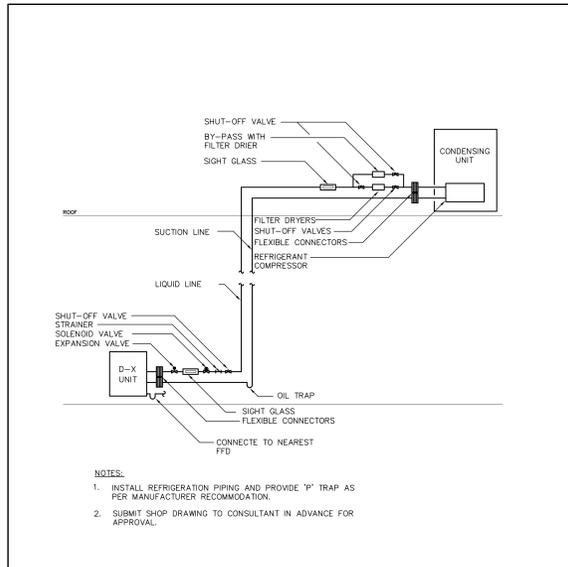
3 WALL PENETRATION FOR PIPE FOR NON ACOUSTIC WALLS  
 M-610 NTS



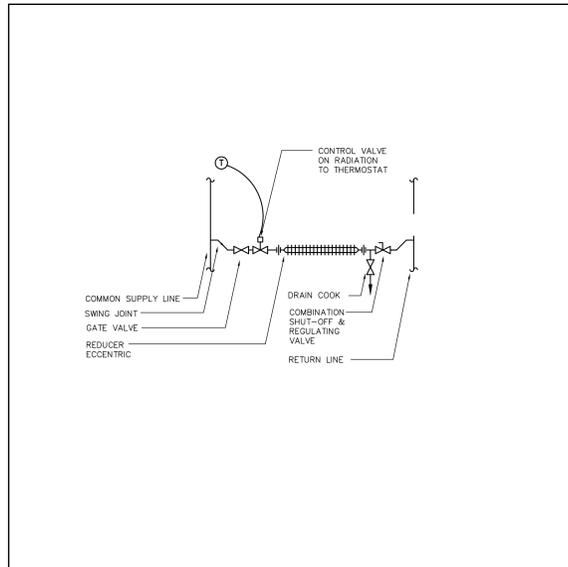
4 DETAIL OF SUPPORTS FOR PIPING MOUNTED ON ROOF  
 M-610 NTS



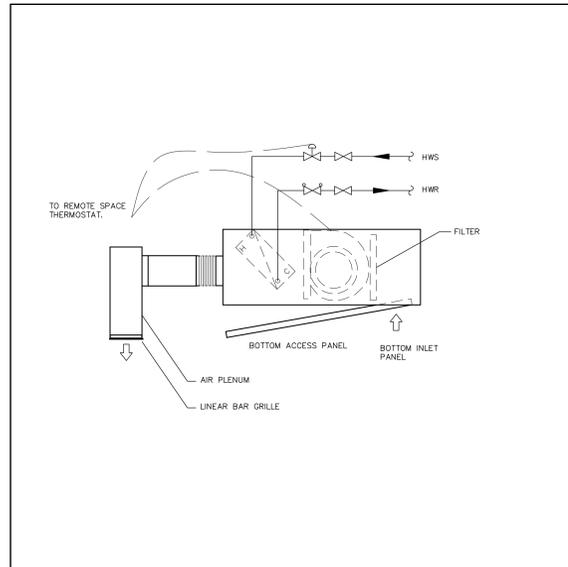
5 PIPE OR CONDUIT THROUGH ROOF DECK  
 M-610 NTS



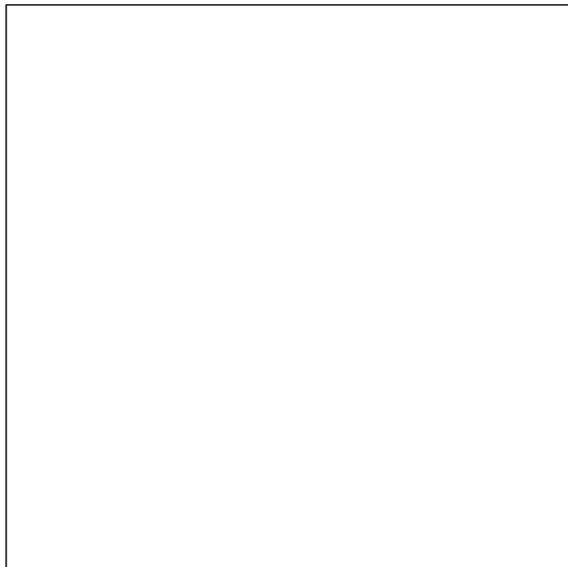
6 REFRIGERATION PIPING DETAIL BETWEEN CONDENSING UNIT AND D-X COIL  
 M-610 NTS



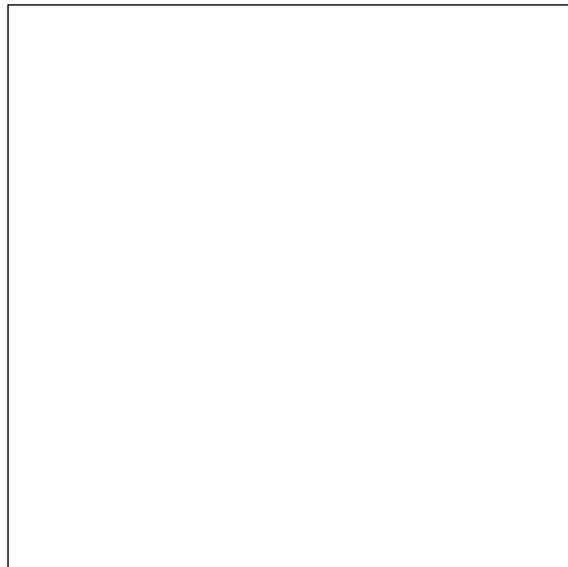
7 DETAIL OF WALL FIN CONNECTIONS  
 M-610 NTS



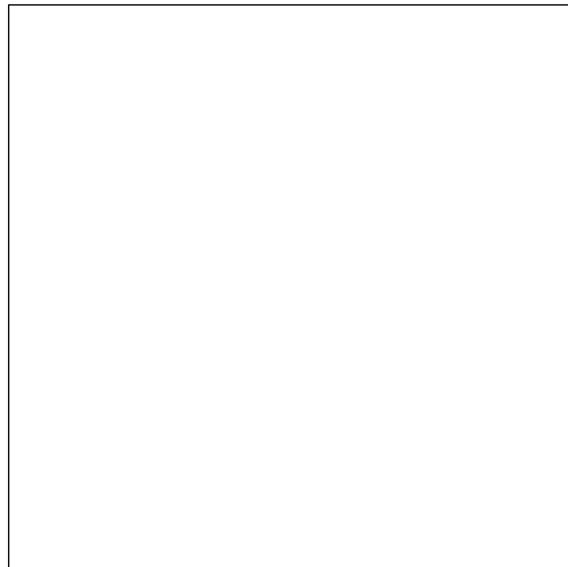
8 CEILING TYPE FORCE FLOW DETAIL  
 M-610 NTS



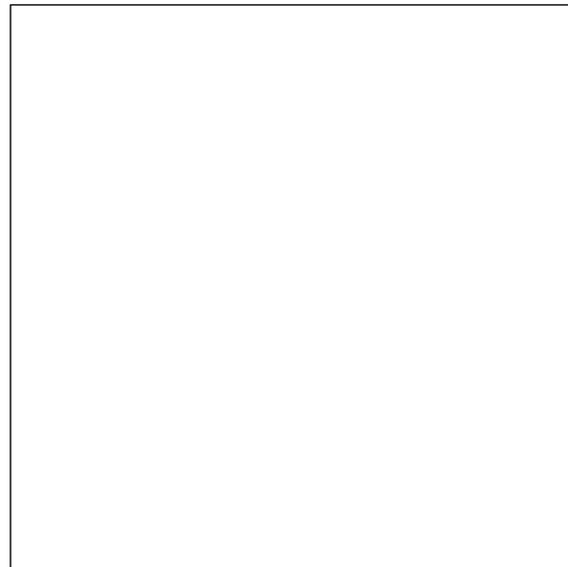
9 RESERVED  
 M-610



10 RESERVED  
 M-610



11 RESERVED  
 M-610



12 RESERVED  
 M-610



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Projet CRA OFFICE FIT UP Project

CANADA REVENUE AGENCY  
 32-46 CHURCH STREET  
 ST. CATHARINES, ONT.

Dessin Drawing

MECHANICAL DETAILS



Conçu par Designed by  
 CROSSEY ENGINEERING LTD. 2013--11-29  
 Date

Dessiné par Drawn by  
 2000-12-24  
 Date

Approuvé par Approved by  
 .. 2000-12-24  
 Date

Soumission Tender

Administrateur de projets APC PCA Project Manager

No de projet Project number  
 R.065355.001

Nom du fichier File name No de classement

No de plan ou dessin File name No feuille Sheet no  
 M-610

Room	No.	Product Name	Manufacturer	Quantity	Location
Room 1	1	SIEMENS	SIEMENS	1	SIEMENS
Room 2	2	SIEMENS	SIEMENS	1	SIEMENS
Room 3	3	SIEMENS	SIEMENS	1	SIEMENS
Room 4	4	SIEMENS	SIEMENS	1	SIEMENS
Room 5	5	SIEMENS	SIEMENS	1	SIEMENS
Room 6	6	SIEMENS	SIEMENS	1	SIEMENS
Room 7	7	SIEMENS	SIEMENS	1	SIEMENS
Room 8	8	SIEMENS	SIEMENS	1	SIEMENS
Room 9	9	SIEMENS	SIEMENS	1	SIEMENS
Room 10	10	SIEMENS	SIEMENS	1	SIEMENS

Room	No.	Product Name	Manufacturer	Quantity	Location
Room 11	11	SIEMENS	SIEMENS	1	SIEMENS
Room 12	12	SIEMENS	SIEMENS	1	SIEMENS
Room 13	13	SIEMENS	SIEMENS	1	SIEMENS
Room 14	14	SIEMENS	SIEMENS	1	SIEMENS
Room 15	15	SIEMENS	SIEMENS	1	SIEMENS
Room 16	16	SIEMENS	SIEMENS	1	SIEMENS
Room 17	17	SIEMENS	SIEMENS	1	SIEMENS
Room 18	18	SIEMENS	SIEMENS	1	SIEMENS
Room 19	19	SIEMENS	SIEMENS	1	SIEMENS
Room 20	20	SIEMENS	SIEMENS	1	SIEMENS

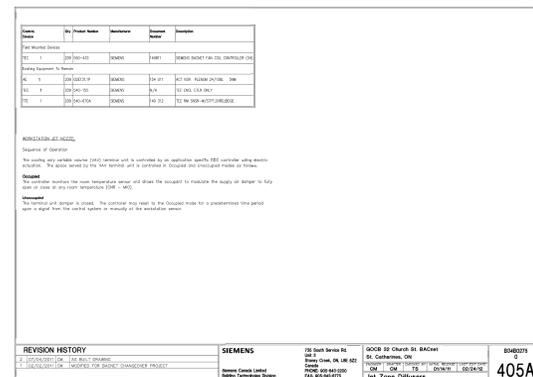
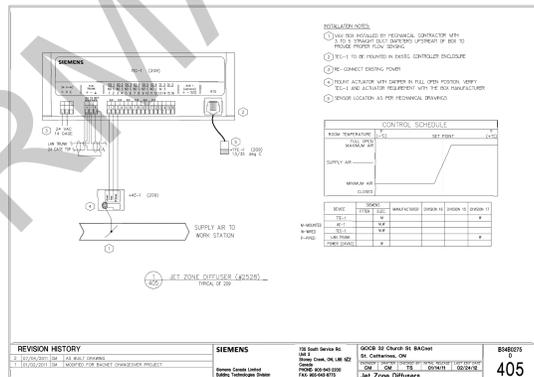
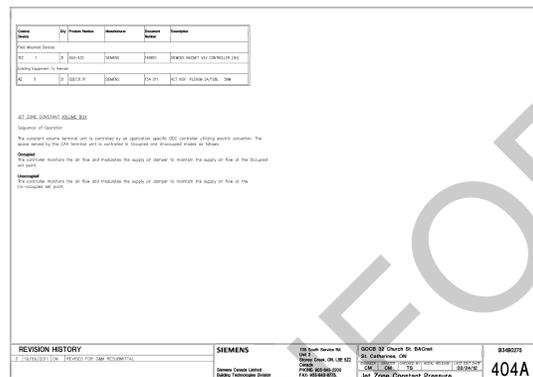
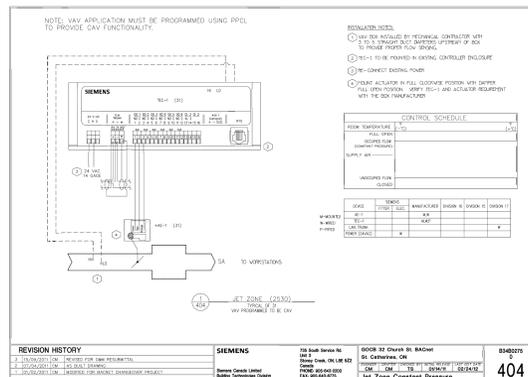
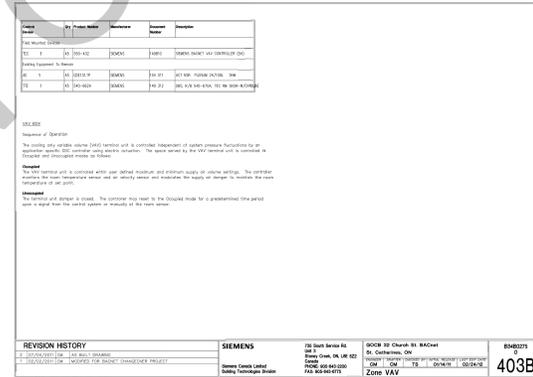
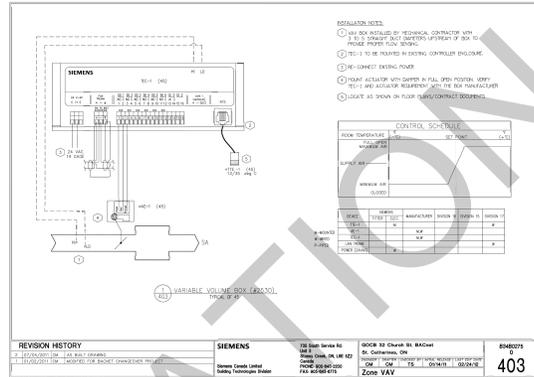
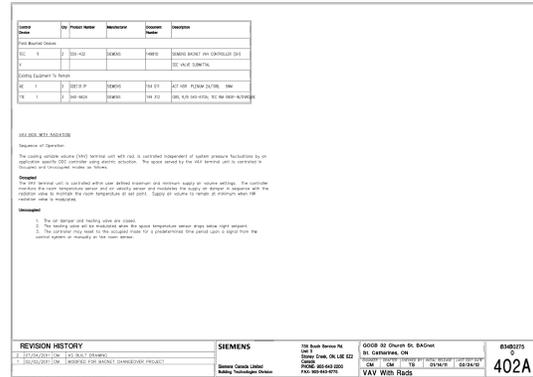
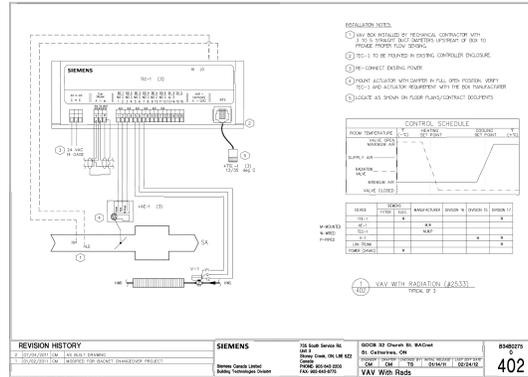
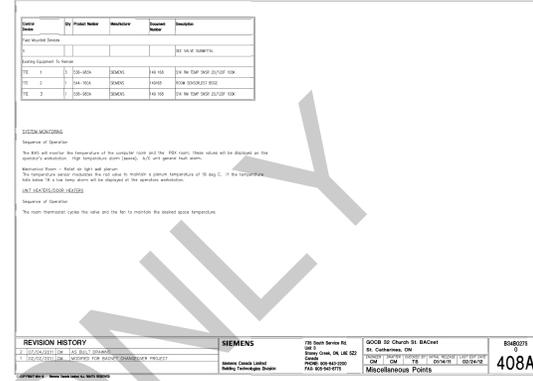
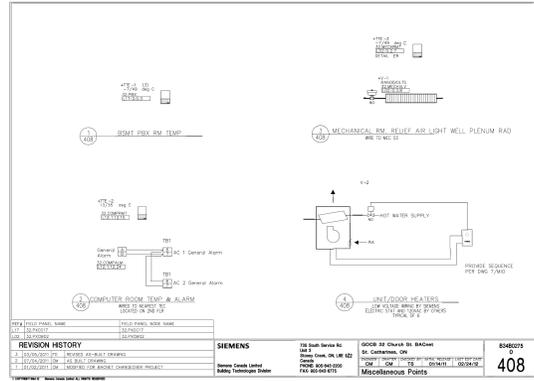
  

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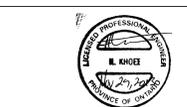


- NOTES:**
- REMOVE CONTROL ASSOCIATED WITH JET ZONE CONTROLLERS. REFER TO DETAIL 404A.
  - NEW VAV BOXES SHALL HAVE SAME SEQUENCE AND CONTROLS AS INDICATED ON DETAILS 403, 403B, & 402B.
  - REUSE CONTROLLERS OF DOOR HEATER FOR NEW FORCE FLOW HEATER, REFER TO DETAILS 404 & 404A.

Public Works and Government Services Canada  
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Projet **CRA OFFICE FIT UP** Project

CANADA REVENUE AGENCY  
32-46 CHURCH STREET

ST. CATHARINES, ONT.

Dessin **EXISTING CONTROL SYSTEM SCHEMATIC AND DETAILS** Drawing

METERS

Conçu par **CROSSEY ENGINEERING LTD.** 2013-11-29  
Date  
Dessiné par **...** 2000-12-24  
Date

Approuvé par **...** 2000-12-24  
Date

Soumission **...** 2000-12-24  
Date

Administrateur de projets APC **PCA Project Manager**

No de projet **R.065355.001**  
Project number  
APC **PCA**

Nom du fichier **...** File name  
No de plan ou dessin **M-620** No feuille Sheet no

# FITUP FOR CANADA REVENUE AGENCY GOVERNMENT OF CANADA BUILDING

32-46 CHURCH STREET, ST.CATHARINES, ONTARIO  
PROJECT NUMBER: R.065355.001

**TAYLOR HAZELL ARCHITECTS**  
333 Adelaide Street West, 5th Floor  
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**DRAWING LIST:**

E-001	ELECTRICAL LEGENDS, DRAWING LIST AND KEYPLANS
E-100	DEMOLITION GROUND AND SECOND FLOORS - LIGHTING
E-101	DEMOLITION GROUND AND SECOND FLOORS - POWER & SYSTEMS
E-200	GROUND FLOOR LIGHTING PLAN
E-201	SECOND FLOOR LIGHTING PLAN
E-300	GROUND FLOOR POWER & SYSTEM PLAN
E-301	SECOND FLOOR POWER & SYSTEM PLAN
E-400	ELECTRICAL DETAILS
E-500	ELECTRICAL SCHEDULES

**SECURITY SYMBOLS**

NOTE:  
SECURITY DEVICES TO BE PROVIDED BY SECURITY CONTRACTOR.  
ELECTRICAL CONTRACTOR TO PROVIDE BACKBOXES, CONDUITS  
AND PULLSTRINGS.

CR	CARD READER
MD	MOTION DETECTOR
GB	GLASS BREAK
SCV	SECURITY CAMERA

**LIGHTING SYMBOLS**

FJ1	SURFACE OR SUSPENDED MOUNTED FLUORESCENT FIXTURE LETTER DENOTES TYPES, FOR OTHER FIXTURE TYPES, REFER TO LUMINAIRE SCHEDULE.
FA1	RECESSED 2X2FT FLUORESCENT FIXTURE LETTER DENOTES TYPES, FOR OTHER FIXTURE TYPES, REFER TO LUMINAIRE SCHEDULE.
FA2	RECESSED 2X4FT FLUORESCENT FIXTURE LETTER DENOTES TYPES, FOR OTHER FIXTURE TYPES, REFER TO LUMINAIRE SCHEDULE.
CA1	RECESSED DOWN LIGHT, LETTER DENOTES TYPE. FOR OTHER FIXTURE TYPES, REFER TO LUMINAIRE SCHEDULE.
CW1	RECESSED WALL MOUNT LIGHT, LETTER DENOTES TYPE. FOR OTHER FIXTURE TYPES, REFER TO LUMINAIRE SCHEDULE.
ES	EXIT SIGN, LETTER DENOTES TYPE, FOR OTHER FIXTURE TYPES, REFER TO LUMINAIRE SCHEDULE.
ST	SINGLE POLE, SINGLE THROW TOGGLE SWITCH, '3' DENOTES 3-WAY, '2' DENOTES PILOT LIGHT, 'LV' DENOTES LOW VOLTAGE)
////	DENOTES LIGHTING FIXTURE TO BE ON NIGHT LIGHT CIRCUITS.
ELR	EMERGENCY LIGHTING REMOTE HEAD(S) CEILING/WALL MOUNTED REFER TO SCHEDULE
ELB	EMERGENCY LIGHTING BATTERY UNIT c/w RECEPTACLE, REFER TO LUMINAIRE SCHEDULE

2C-1-1 TYPICAL CIRCUIT LINE VOLTAGE SWITCH DESIGNATIONS  
IS AS FOLLOWS:  
SWITCH LEG  
CIRCUIT NUMBER  
PANEL DESIGNATION

2C-1-A-1 TYPICAL RELAY PANEL'S CIRCUIT DESIGNATIONS  
IS AS FOLLOWS:  
RELAY NUMBER  
RELAY PANEL  
PANEL CIRCUIT NUMBER  
LIGHTING PANEL

**NOTE**  
MOUNTING HEIGHTS ARE TO CENTER LINE OF LIGHT FIXTURES

**POWER SYMBOLS**

15A-125V 2P-3W CONVENIENCE GROUNDED DUPLEX RECEPTACLE, WALL MOUNTED
(2)-DUPLEX CONVENIENCE RECEPTACLES UNDER COMMON COVERPLATE
15A-125V 2P-3W GROUNDED DUPLEX RECEPTACLE, SPLIT WIRED, WALL MOUNTED
20A-125V 2P-3W CONVENIENCE GROUNDED DUPLEX RECEPTACLE, WALL MOUNTED
20A-125V 2P-3W (L5-20R) CONVENIENCE GROUNDED DUPLEX RECEPTACLE, MOUNTED IN FS STYLE BOX UNDERSIDE OF OVERHEAD CABLE TRAY, SUPPORTED INDEPENDENT OF CONDUIT
30A-250V 2P-3W GROUNDED SINGLE DRYER RECEPTACLE, WALL MOUNTED TO SUIT.
MANUAL STARTER
COMBINATION MAGNETIC STARTER
MOTOR BY OTHER, HP AS INDICATED, WIRED BY ELECTRICAL CONTRACTOR.
DISCONNECT
ISOLATING SWITCH
120V-1PH POWER CONNECTION (AMPERAGE AS INDICATED)
208V-1PH POWER CONNECTION C/W DISCONNECT SWITCH (AMPERAGE AS INDICATED)
FLUSH MOUNT SINGLE GANG BOX WITH 21mmEMT TO PIPE CHASE AND SINGLE GANG STAINLESS STEEL COVERPLATE (CELLS ONLY), MH 1200 PROVIDE END CAP ON CONDUIT IN PIPE CHASE.
CONDUIT UP
CONDUIT DOWN
PANELBOARD, RECESSED OR SURFACE MOUNTED,
ZONE POWER JUNCTION BOX IN CEILING SPACE FOR MODULAR FURNITURE OR WALL RECEPTACLES AS SHOWN.
WALL MOUNTED WIRELESS RECEIVER BOX.
MODULAR FURNITURE SYSTEM POWER AND DATA/COMMUNICATION POINT FROM CEILING.

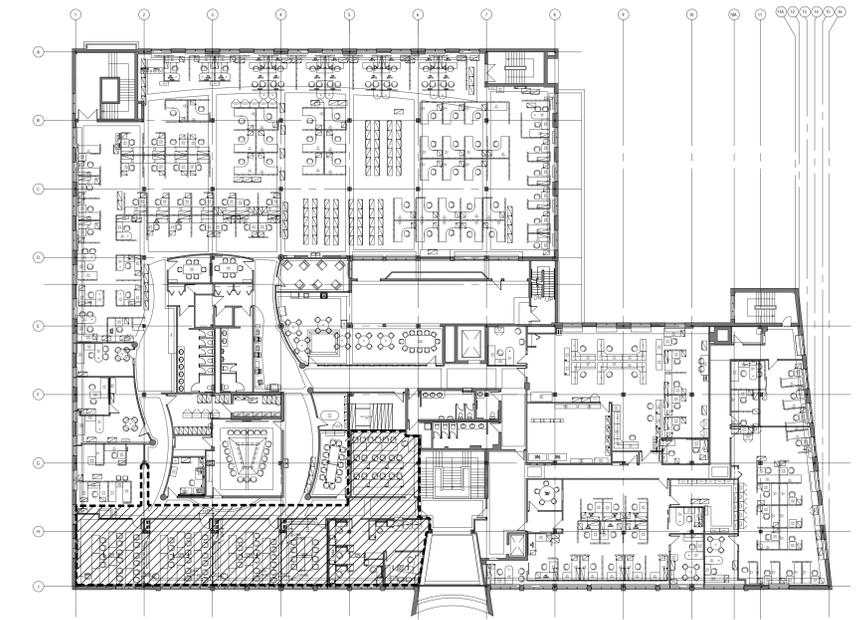
**SYSTEMS SYMBOLS**

TELEVISION OUTLET MH 2400mm, c/w DOUBLE GANG BACKBOX, CONNECTORS, COVERPLATE AND 2 CABLES IN 1" (25mm) C. BACK TO NEAREST COMMUNICATION ROOM/CLOSET.
DOOR PUSH BUTTON, MH 1200mm, 1 GANG BACKBOX C/W 3/4"C.
DURESS ALARM INITIATING DEVICE (STAY-PUT DPST) MH 1200mm.
DOOR CALL OR DOOR RELEASE PUSHBUTTON SINGLE GANG BACKBOX C/W 3/4"C.
ADMINISTRATION COMBINATION DATA OUTLET c/w DOUBLE GANG BACKBOX, CONNECTORS, COVERPLATE AND 2 CABLES IN 1" (25mm) C. BACK TO NEAREST COMMUNICATION ROOM/CLOSET.
TELEPHONE OUTLET - MH 600mm, c/w DOUBLE GANG BACKBOX, CONNECTORS, COVERPLATE AND 1-CAT6 CABLES IN CONDUIT. FOR CONDUIT SIZE REFER TO MAXIMUM NUMBER OF CABLES BASED UPON ALLOWABLE FILL.
EMERGENCY PHONE c/w DOUBLE GANG BACKBOX, CONNECTORS, COVERPLATE AND CABLES IN 1" (25mm) C. BACK TO NEAREST COMMUNICATION ROOM/CLOSET.
FIRE ALARM SMOKE DETECTOR
FIRE ALARM HEAT DETECTOR
FIRE ALARM PULL STATION, MH 1200mm.
FIRE ALARM BELL
CEILING MOUNTED SPEAKER, c/w 3/4"C (PUBLIC ADDRESS, FLUSH MOUNTED). BACKBOX TO BE SUPPLIED BY PUBLIC ADDRESS CONTRACTOR FOR INSTALLATION BY ELECTRICAL CONTRACTOR.
RECESSED MICROPHONE IN CONSOLE C/W PUSH TO TALK SWITCH
RECESSED FIRE ALARM ANNUNCIATOR
JUNCTION BOX
PULL BOX
TERMINAL BOX
LINE ISOLATOR MODULE
HANDICAP PUSH BUTTON
AV WALL PLATE LOCATION, FINAL LOCATION TO BE DETERMINED ON SITE BEFORE ROUGH IN.) - VOLUME CONTROL R/I - SCREEN CONTROL R/I
CEILING MOUNTED LAN CABLE LOCATION, - IG DEEP BOX WITH 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE.

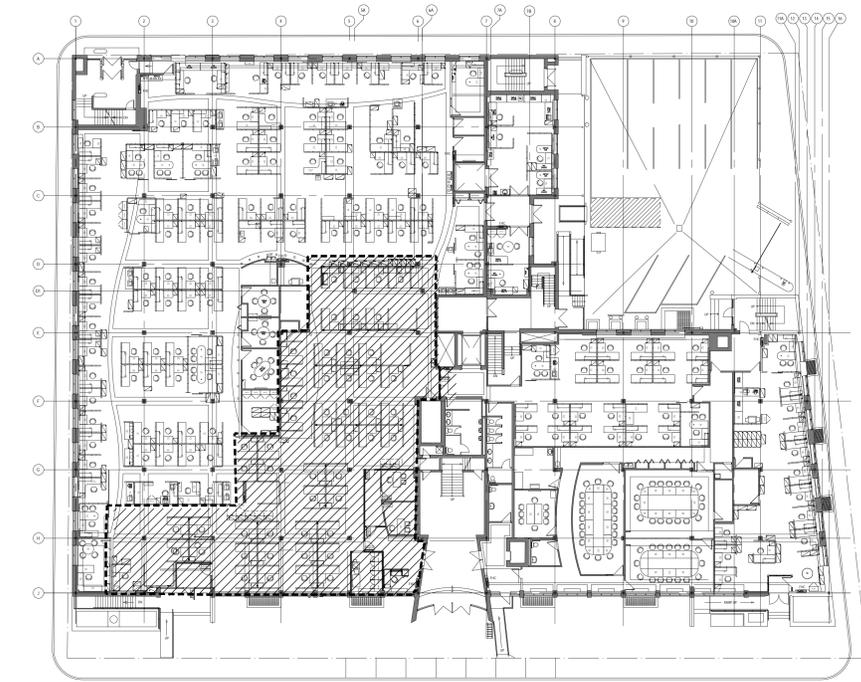
**ABBREVIATIONS:**

AFF	ABOVE FLOOR FINISH
ANN	ANNUNCIATOR
CCT	CIRCUIT
CH	COUNTER HEIGHT
F/A	FIRE ALARM
MH	MOUNTING HEIGHT
WG	WIREGUARD
WP	WEATHERPROOF
3	3-WAY
4	4-WAY
P	PILOT LIGHT
DP	DISTRIBUTION PANEL
PP	POWER PANEL
LP	LIGHTING PANEL
SWBD	SWITCHBOARD
ATS	AUTOMATIC TRANSFER SWITCH
E	DENOTES EXISTING DEVICE TO REMAIN
R	DENOTES EXISTING DEVICE TO BE REMOVED
ER	DENOTES EXISTING DEVICE TO BE RELOCATED
RE	DENOTES EXISTING DEVICE IN RELOCATED POSITION
UPS	UNINTERRUPTIBLE POWER SUPPLY
PH	PHASE
PVC	POLYVINYL CHLORIDE
A	AMPS
V	VOLTS

—	DENOTES NEW WORK TO BE PROVIDED UNDER THIS CONTRACT
----	DENOTES EXISTING



2 SECOND FLOOR - LOCATION PLAN  
E-001 1:250



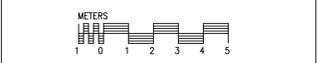
1 GROUND FLOOR - LOCATION PLAN  
E-001 1:250

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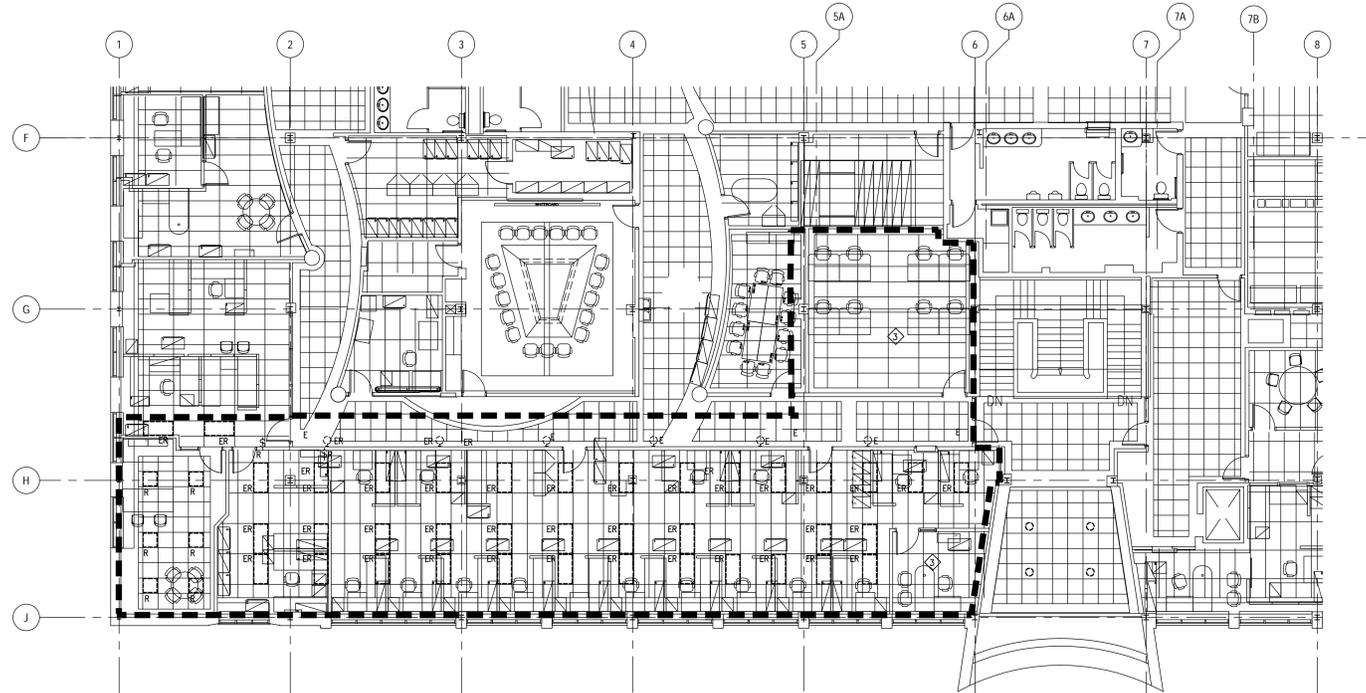
Projet **CRA OFFICE FIT UP** Project  
CANADA REVENUE AGENCY  
32-36 CHURCH STREET  
ST. CATHARINES, ONT.

Dessin **ELECTRICAL LEGENDS  
DRAWING LIST & KEYPLANS** Drawing

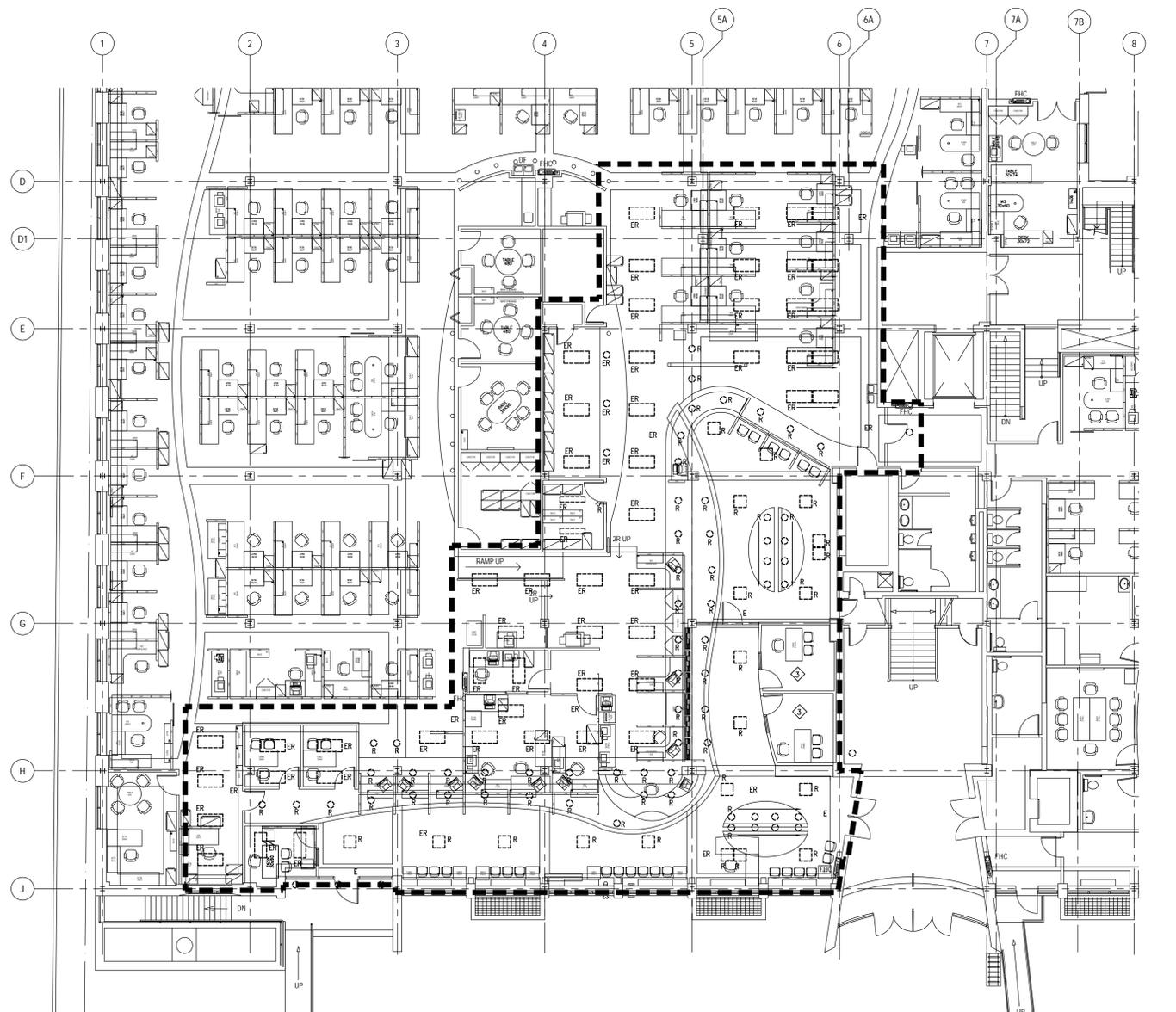


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Approuvé par AO	Approved by 2013-11-11 Date
Soumission	Tender

Administrateur de projets APC PCA Project Manager	No de projet R.065355.001 APC	Project number 2013-11-11 Date
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1 SECOND FLOOR - DEMOLITION  
E-100/ 1:100



1 GROUND FLOOR - DEMOLITION  
E-100/ 1:100

NOTES

- 1) ALL ABANDONED DEDICATED CIRCUITS SHALL BE PULLED BACK TO THE SOURCE PANEL BOARD AND CONDUITS OR AC90 WIRING REMOVED FROM CEILING SPACE. WHERE CIRCUITS ARE FOUND TO BE SHARED REMOVE WIRING AND CONDUIT TO THE NEAREST JUNCTION BOX.
- 2) DURING CONSTRUCTION PROTECT ALL EXISTING EQUIPMENT AND DEVICES TO REMAIN FROM DUST/DEBRIS WITHIN THE PHASE OF RENOVATION.
- 3) ALL EXISTING LIGHTING AND CONTROLS IN THIS ROOM SHALL REMAIN AS INSTALLED.
- 4) UNLESS OTHERWISE NOTED ALL EXISTING LIGHTING CIRCUITS AND CONTROLS SHALL REMAIN INTACT AND SECURED FOR RE-USE WITH NEW LIGHTING LAYOUT AS REQUIRED.

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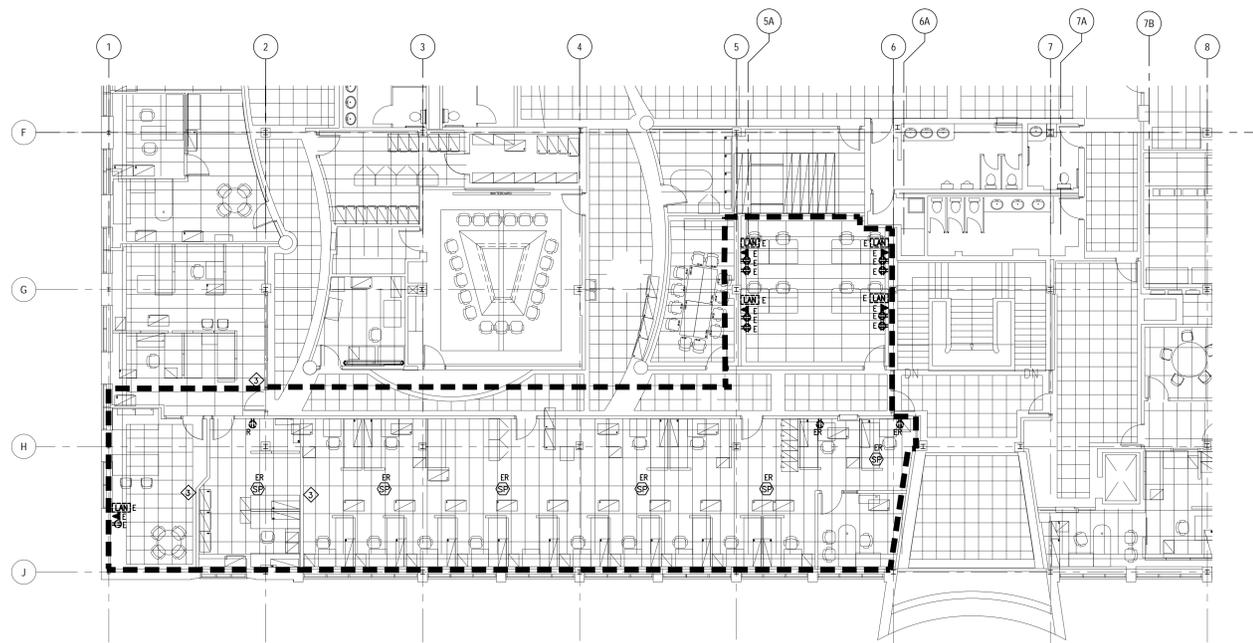
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CANADA REVENUE AGENCY  
32-36 CHURCH STREET  
ST. CATHARINES, ONT.

Dessin *DEMOLITION  
GROUND & SECOND FLOORS  
LIGHTING LAYOUTS* Drawing  
METERS  
1 0 1 2 3 4 5

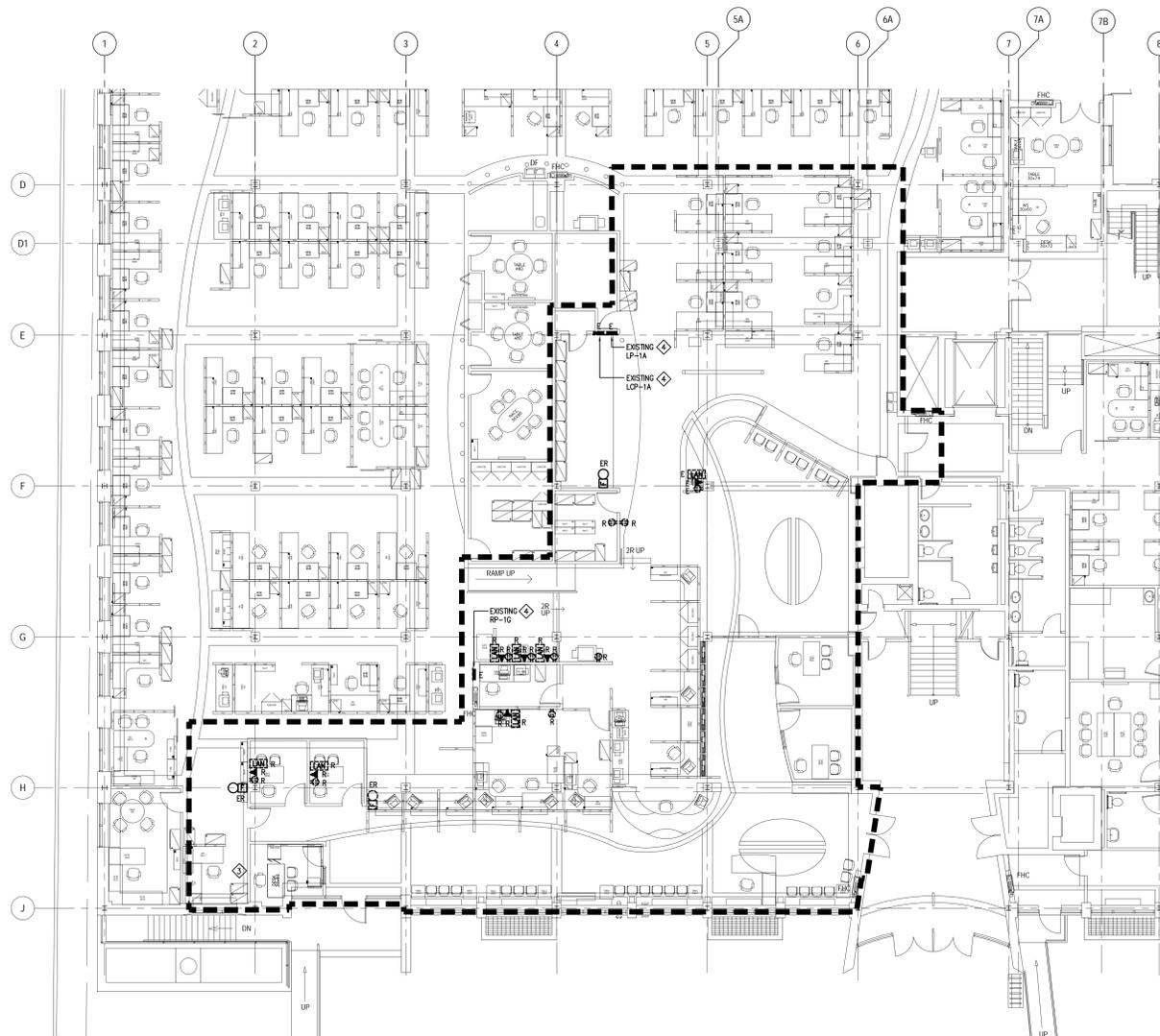
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Date 2013-11-11  
Approuvé par *AO* Approved by  
Date 2013-11-11  
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No de projet *R.065355.001* Project number  
APC PCA  
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1384-E-100.DWG File no  
No de plan ou dessin *E-100* File name No feuille Sheet no



1 SECOND FLOOR — DEMOLITION  
E-101 1:100



1 GROUND FLOOR — DEMOLITION  
E-101 1:100

**NOTES**

- 1) THIS DRAWING DOES NOT SHOW ALL EXISTING DEVICES. EXISTING DEVICES SHALL REMAIN UNLESS OTHERWISE NOTED. ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT QUANTITIES OF EXISTING DEVICES TO BE REMOVED PRIOR TO THE TENDER CLOSING.
- 2) ALL CIRCUITS TO EXISTING WORKSTATIONS SHALL BE DISCONNECTED, PROTECTED AND COILED-UP INTO CEILING SPACE FOR RE-USE WITH NEW FURNITURE SYSTEM LAYOUT. WHERE CIRCUITS ARE FOUND TO BE SHARED OUTSIDE AREAS UNDER RENOVATION REMOVE WIRING AND CONDUITS FROM RENOVATED AREA BACK TO THE NEAREST JUNCTION BOX.
- 3) ALL EXISTING DEVICES ON WALLS TO BE DEMOLISHED SHALL BE DISCONNECTED AND REMOVED. PULL BACK ALL WIRING TO ITS SOURCE AND MAKE SAFE.
- 4) EXISTING RECEPTACLE, LIGHTING AND LIGHTING CONTROL PANELS TO REMAIN. ALLOW FOR MODIFICATIONS AND/OR ARRANGEMENTS OF CIRCUITS/CONTROLS AS REQUIRED TO SUIT NEW LAYOUTS.
- 5) UNLESS OTHERWISE NOTED MAKE ALLOWANCE FOR RELOCATION OF EXISTING FIRE ALARM DEVICES TO SUIT NEW LAYOUTS.



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Projet *CRA OFFICE FIT UP* Project

CANADA REVENUE AGENCY  
32-36 CHURCH STREET

ST. CATHARINES, ONT.

Dessin *DEMOLITION* Drawing

**DEMOLITION  
GROUND & SECOND FLOORS  
POWER AND SYSTEMS**



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Date 2013-11-11

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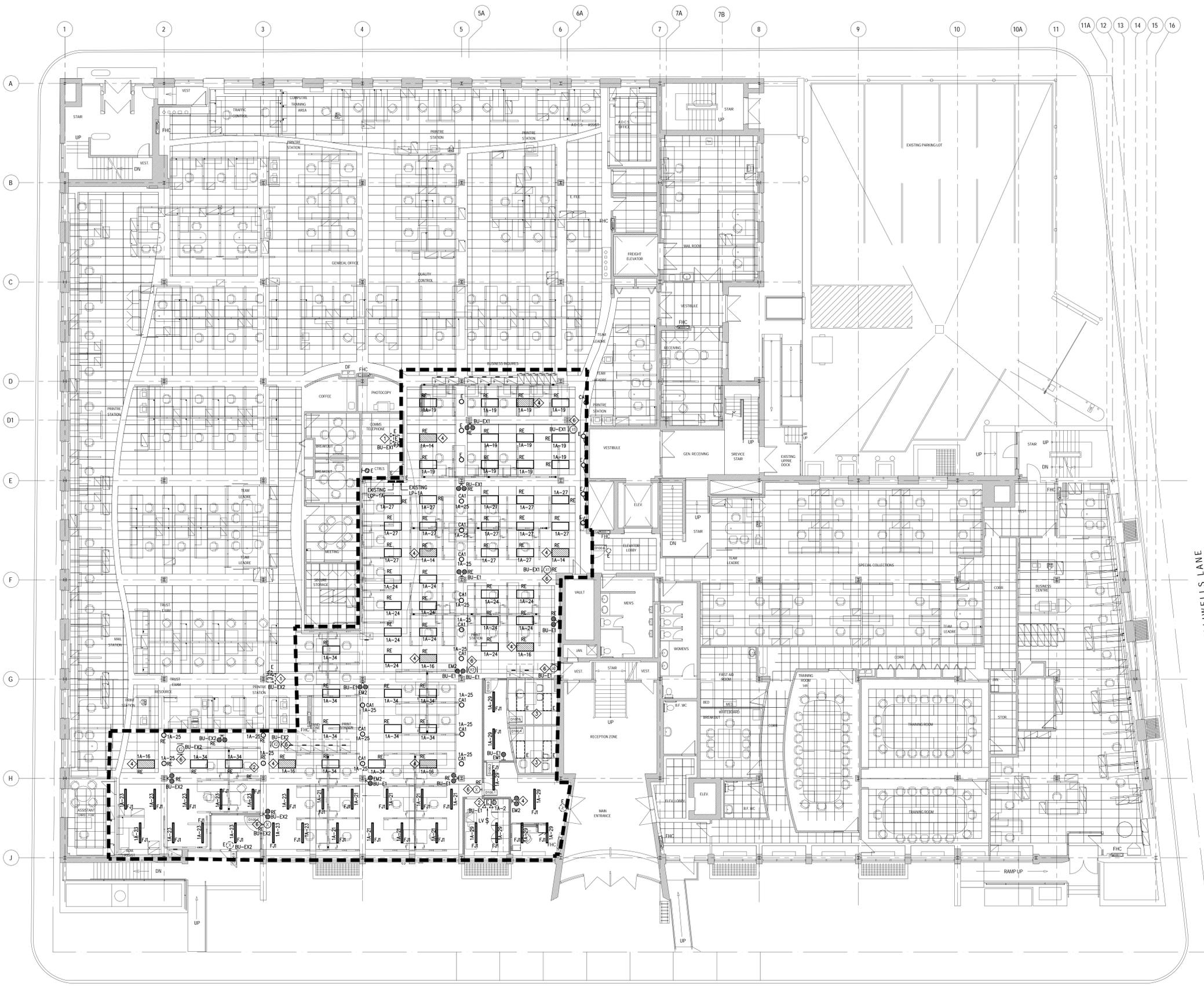
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*APC* PCA

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1 GROUND FLOOR PLAN - NEW LIGHTING  
E-200 1:100

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**NOTES**

- 1. EXISTING EMERGENCY BATTERY LIGHTING UNITS TO REMAIN. MODIFY EXISTING WIRING TO RELOCATED REMOTE HEADS AS REQUIRED AND CONNECT TO INDICATED BATTERY UNITS.
- 2. NEW EMERGENCY BATTERY LIGHTING UNIT 360WATTS OUTPUT TO MATCH EXISTING BASE BUILDING STANDARDS. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL DETAILS.
- 3. EXISTING LIGHTING LAYOUT/CONTROLS IN THESE ROOM SHALL REMAIN AS INSTALLED UNLESS OTHERWISE NOTED.
- 4. LUMINAIRES INDICATED SHALL BE CONNECTED AS UN-SWITCHED/CONTROLLED FOR NIGHT LIGHTING PURPOSES.
- 5. UNLESS OTHERWISE NOTED LIGHTING IN RENOVATED AREA SHALL BE CONTROLLED THROUGH EXISTING LIGHTING CONTROL SYSTEM DESIGNATED ZONES. ALLOW FOR THE PROVISION OF ADDITIONAL RELAYS/CONTROL EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW LAYOUTS. REFER TO EXISTING LIGHTING CONTROL RELAY SCHEDULE ON DRAWING E-400 FOR ADDITIONAL INFORMATION.
- 6. PROVIDE NEW EXIT LUMINAIRES AS INDICATED TO MATCH EXISTING BUILDING STANDARDS AND CONNECT TO THE NEAREST AVAILABLE EXIT SIGN CIRCUIT.



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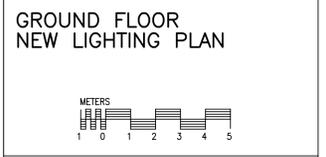
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Dessin **GROUND FLOOR NEW LIGHTING PLAN** Drawing



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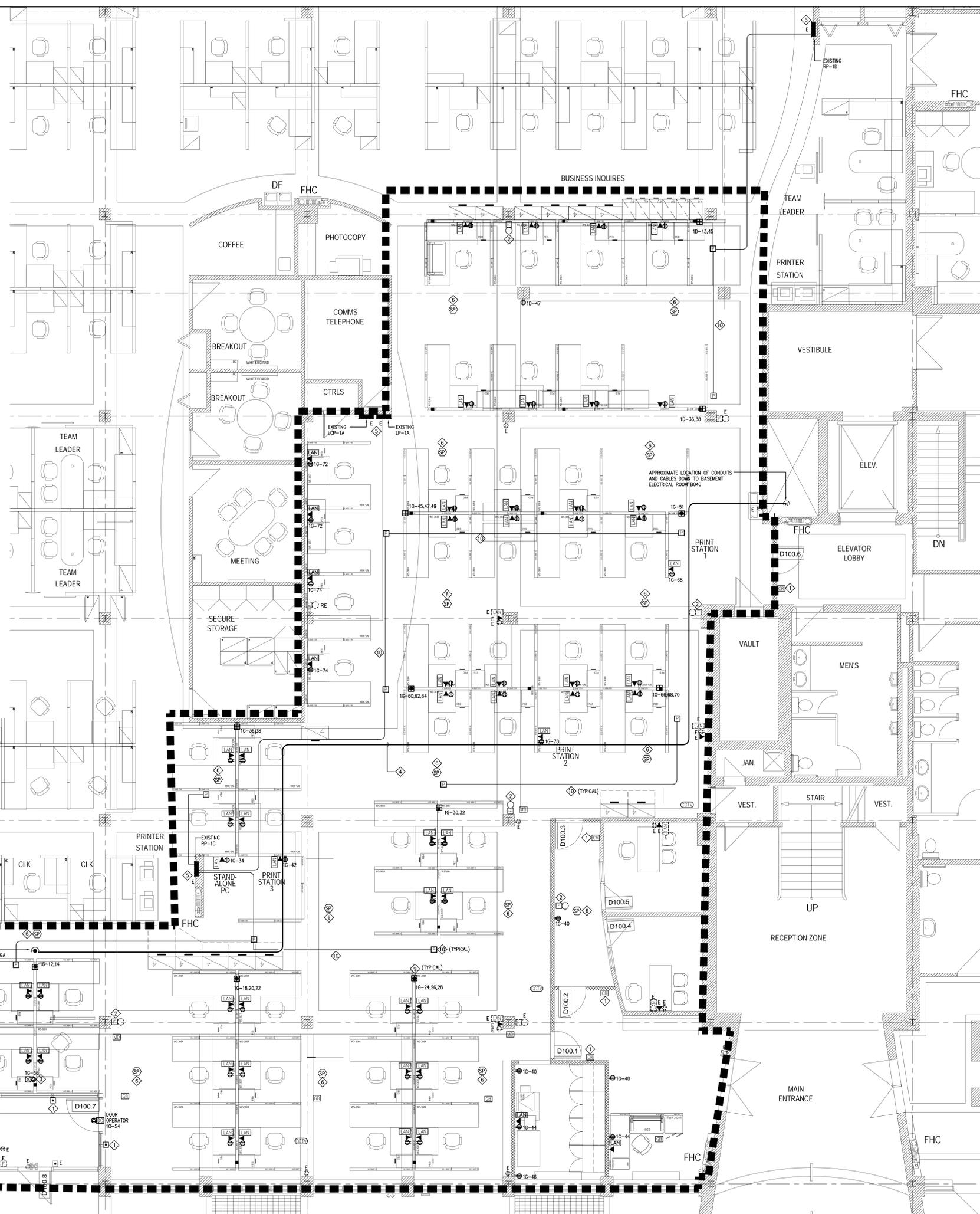
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**NOTES**

- ◇ REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS.
- ◇ PROVIDE NEW FIRE ALARM BELLS AS INDICATED AND CONNECT TO EXISTING FIRE ALARM CIRCUIT/ZONE SERVING THE AREA.
- ◇ CEILING MOUNTED POWER CONNECTION FOR FORCE FLOW HEATER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION.
- ◇ APPROXIMATE ROUTE FOR NEW PANEL BOARD RP-2GA. RUN FEEDER THROUGH GROUND FLOOR CEILING SPACE. CO-ORDINATE EXACT ROUTE ON SITE PRIOR TO ROUGHING-IN.
- ◇ EXISTING PANEL BOARDS TO REMAIN AS INSTALLED.
- ◇ RELOCATE EXISTING P/A SPEAKERS TO SUIT NEW CEILING LAYOUT. MODIFY WIRING AS REQUIRED AND CONNECT TO ZONES SERVING THE AREA.
- ◇ PROVIDE NEW HEAT DETECTOR TO MATCH EXISTING AND CONNECT TO EXISTING FIRE ALARM ZONE IN THIS AREA.
- 8) DEVICES SHOW ON MODULAR FURNITURE SYSTEMS ARE DIAGRAMMATIC AND FOR INFORMATION PURPOSES ONLY. DEVICES ARE SUPPLIED AND INSTALLED BY MODULAR FURNITURE SYSTEMS MANUFACTURER/SUPPLIER.
- ◇ POWER AND DATA/COMMUNICATION SERVICE POINT TO MODULAR FURNITURE SYSTEMS UP TO CEILING SPACE. DIV-16 CONTRACTOR AND FURNITURE SYSTEMS SUPPLIER TO CO-ORDINATE ENTRY POINT INTO FURNITURE SYSTEMS ON SITE PRIOR TO ROUGHING-IN ZONE CONDUITS ABOVE CEILING.
- ◇ ZONE CONDUITS AND POWER JUNCTION BOXES FOR MODULAR FURNITURE SYSTEMS SERVICE. SIZE CONDUITS AND BOXES AS REQUIRED TO SUIT NUMBER OF CIRCUITS AS REQUIRED. CO-ORDINATE LOCATION OF JUNCTION BOXES ON SITE PRIOR TO ROUGHING-IN.



1 GROUND FLOOR PLAN -- NEW POWER & SYSTEM  
E-300 1:50

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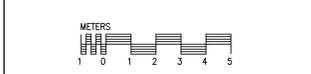
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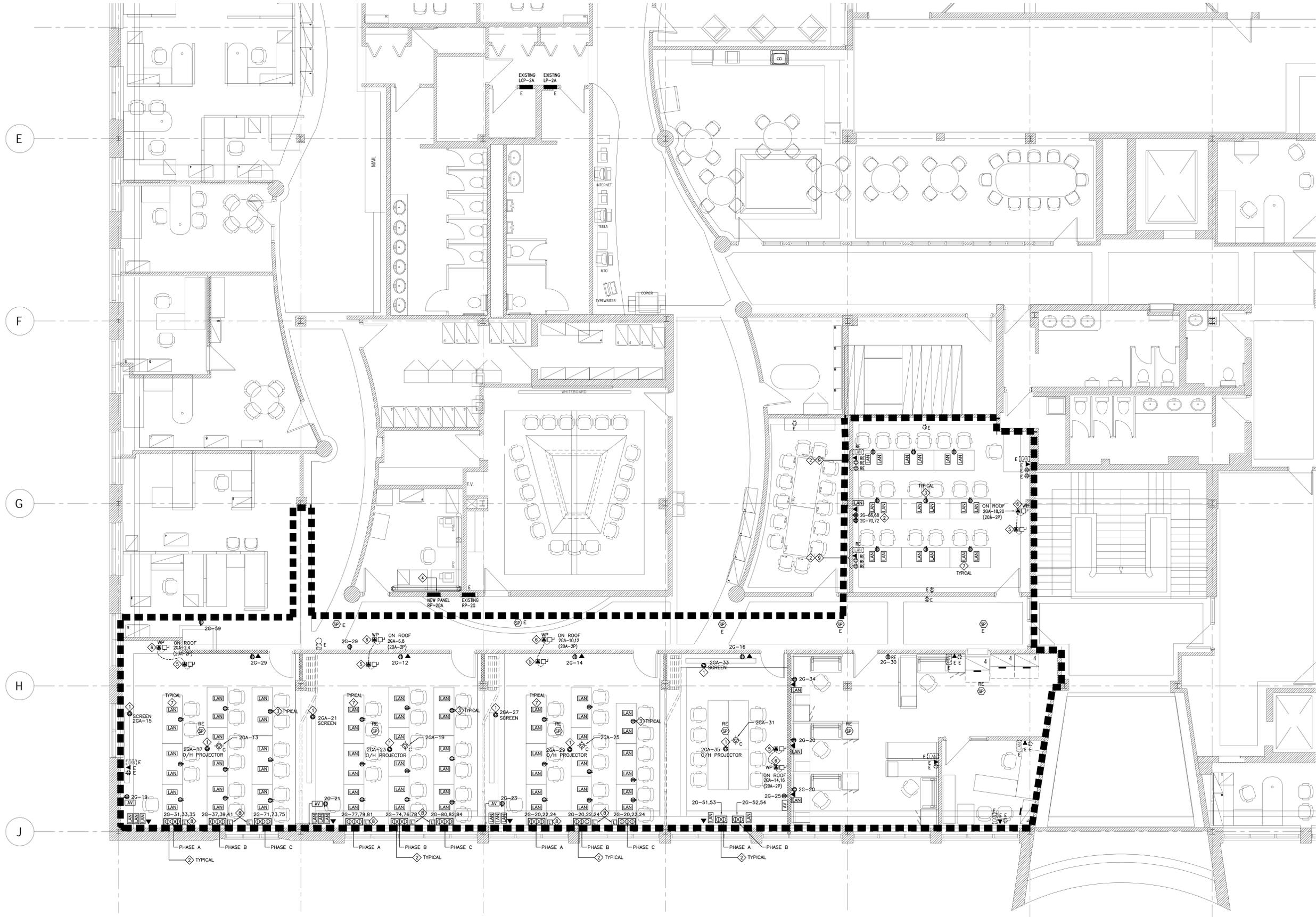
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Dessin *GROUND FLOOR POWER & SYSTEMS PLAN*  
Drawing



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1 SECOND FLOOR PLAN - NEW POWER & SYSTEM  
E-301/ 1:50

NOTES

- 1 REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF OVERHEAD SCREENS.
- 2 SURFACE MOUNTED GANGED RECEPTACLE ASSEMBLY FOR TRAINING TABLE PLUG-IN DUPLEX RECEPTACLES CO-ORDINATE EXACT MOUNTING ARRANGEMENTS ON SITE PRIOR TO ROUGHING-IN.
- 3 DUPLEX RECEPTACLES COMPLETE WITH PLUG-IN CORD BY OTHERS. RECEPTACLES ARE COMPLETE WITH MALE PLUG TO MATCH TWIST LOCK RECEPTACLES PROVIDED BY DIV.16 CONTRACTOR.
- 4 PROVIDE A NEW RECESSED MOUNTED 120/208V, 225A MAINS, 3PH,4W, 42 CCTS RECEPTACLE PANEL FED FROM DISTRIBUTION PANEL IN BASEMENT ELECTRICAL ROOM. EXACT LOCATION OF RP-20A TO BE DETERMINED ON SITE PRIOR TO ROUGHING-IN. REFER TO DRAWING E-300 FOR CONDUIT ROUTING.
- 5 POWER CONNECTION FOR INDOOR AC UNIT. REFER TO MECHANICAL DRAWING FOR EXACT LOCATION OF UNITS.
- 6 POWER CONNECTION FOR ROOF CONDENSING UNIT. FEED TO UNIT ON ROOF FIRST AND INTERCONNECT TO INDOOR UNIT. CO-ORDINATE EXACT LOCATION OF UNITS ON SITE WITH DIV.15 CONTRACTOR PRIOR TO ROUGHING-IN.
- 7 LAN WIRING AND TERMINATIONS ARE BY OTHERS. LOCATIONS ARE SHOWN FOR INFORMATION PURPOSES ONLY.
- 8 SURFACE FLOOR MOUNTED PULL BOX c/w GRUMMETTED COVER FOR LAN CABLING TO TRAINING TABLES. SPACE AS REQUIRED. CO-ORDINATE EXACT ROUTING ALONG THE FLOOR AND UP THROUGH WALL TO CEILING ON SITE PRIOR TO ROUGHING-IN.
- 9 CO-ORDINATE EXACT LOCATION ON SITE AND RE-ARRANGE EXISTING OUTLETS AS REQUIRED PRIOR TO RELOCATIONS.



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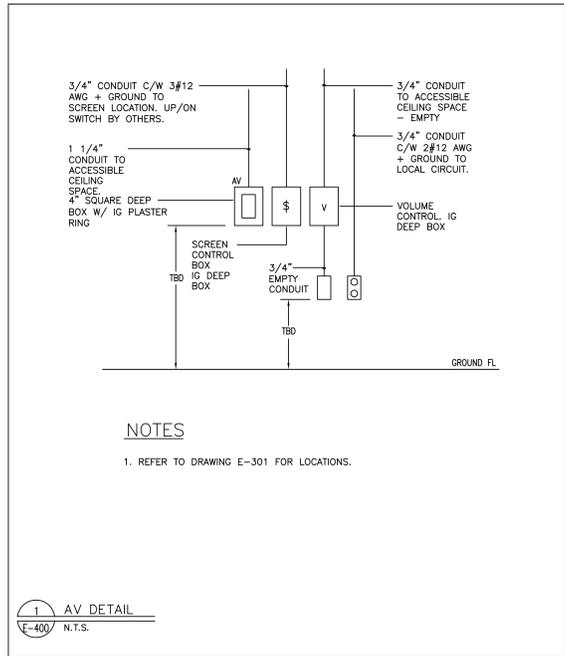
Dessin *Project*  
Drawing

SECOND FLOOR POWER & SYSTEMS PLAN



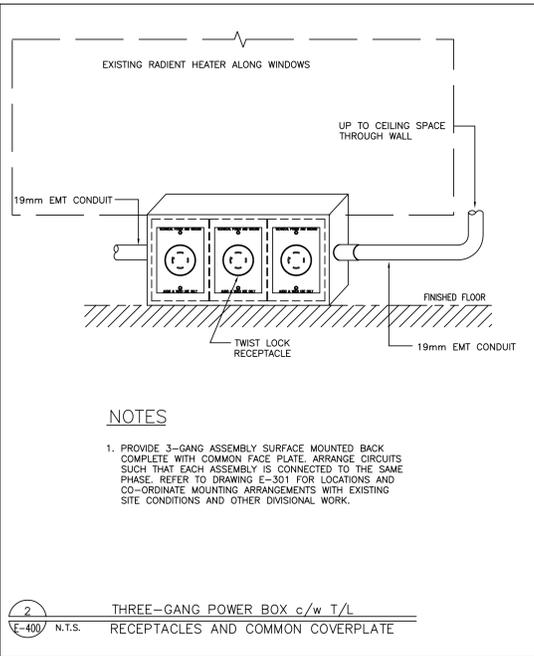
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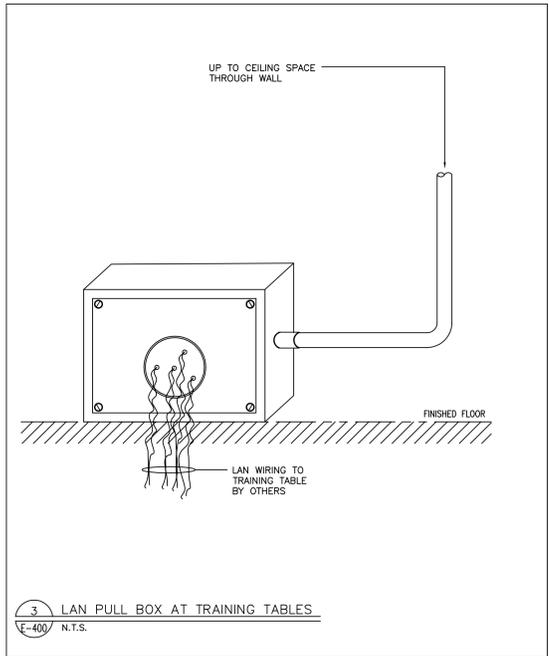
**NOTES**  
1. REFER TO DRAWING E-301 FOR LOCATIONS.

1 AV DETAIL  
E-400 N.T.S.

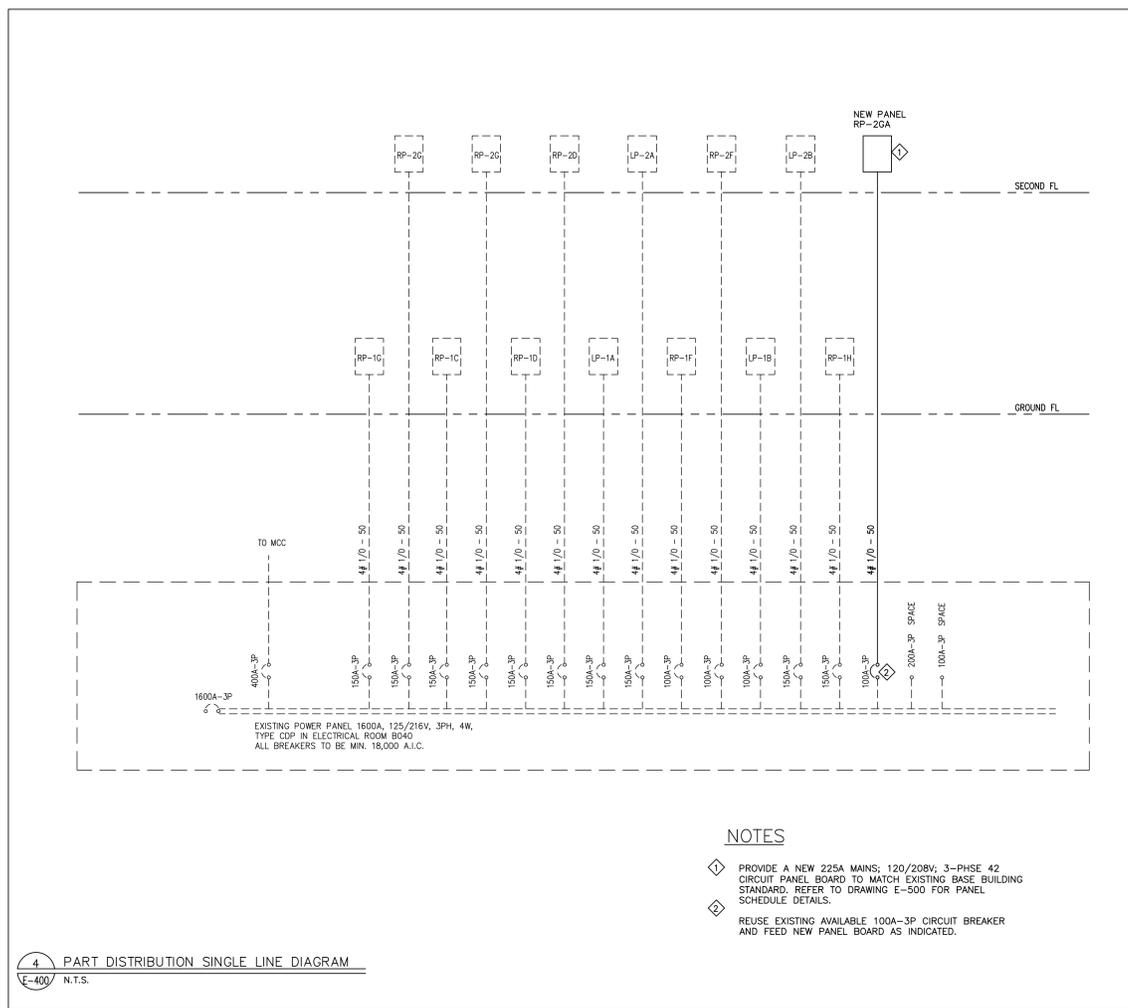


**NOTES**  
1. PROVIDE 3-GANG ASSEMBLY SURFACE MOUNTED BACK COMPLETE WITH COMMON FACE PLATE. ARRANGE CIRCUITS SUCH THAT EACH ASSEMBLY IS CONNECTED TO THE SAME PHASE. REFER TO DRAWING E-301 FOR LOCATIONS AND CO-ORDINATE MOUNTING ARRANGEMENTS WITH EXISTING SITE CONDITIONS AND OTHER DIVISIONAL WORK.

2 THREE-GANG POWER BOX c/w T/L RECEPTACLES AND COMMON COVERPLATE  
E-400 N.T.S.



3 LAN PULL BOX AT TRAINING TABLES  
E-400 N.T.S.



**NOTES**  
◇ PROVIDE A NEW 225A MAINS; 120/208V; 3-PHASE 42 CIRCUIT PANEL BOARD TO MATCH EXISTING BASE BUILDING STANDARD. REFER TO DRAWING E-500 FOR PANEL SCHEDULE DETAILS.  
◇ REUSE EXISTING AVAILABLE 100A-3P CIRCUIT BREAKER AND FEED NEW PANEL BOARD AS INDICATED.

4 PART DISTRIBUTION SINGLE LINE DIAGRAM  
E-400 N.T.S.

**TAYLOR HAZELL ARCHITECTS**  
333 Adelaide Street West, 5th Floor  
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**CROSSEY ENGINEERING LTD.**  
CONSULTING ENGINEERS  
ELECTRICAL, MECHANICAL, LIGHTING  
2255 Sheppard Avenue, E., Suite E 331  
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(416)497.3111 fax (416)497.7210



12356.101 STAMP

THIS DOCUMENT MUST NOT BE USED FOR CONSTRUCTION PURPOSES

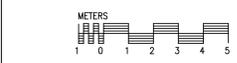
revisions	revisions	date
2	ISSUED FOR TENDER	29.11.06
1	ISSUED FOR REVIEW	13.11.06

A A no. du détail  
detail no.  
B B no. de la feuille-où détaillé  
sheet no. - where detailed

Projet **CRA OFFICE FIT UP**  
CANADA REVENUE AGENCY  
32-36 CHURCH STREET  
ST. CATHARINES, ONT.

Dessin **Drawing**

**ELECTRICAL DETAILS**



Conçu par Taylor Hazell Architects LTD.	Designed by 2013-11-11 Date
Dessiné par LN	Drawn by 2013-11-11 Date
Approuvé par AO	Approved by 2013-11-11 Date
Soumission	Tender

Administrateur de projets APC PCA Project Manager	
No de projet R.065355.001	Project number
APC	PCA
Norm du fichier 1384-E-400.DWG	File name
No de plan ou dessin	No de classement
File no	Sheet no
<b>E-400</b>	

C:\CAD\FILES\Drawings\2013\12356.101 (ST. Catharines)\Working\3E-400.dwg

St. Catharine  
 Job No. **12356.101**  
 Voltage: **120 / 208**  
 Ph/Wire: **3/4**  
 Fed from: **Existing Power Panel**

Panel: **RP-1G (Existing)**  
 Date: 18/11/2013  
 Panel Mains: 225 amps  
 Mounting: Recessed  
 Tub Type: Double  
 Location: Main Breaker NO

**Panel Schedule**

BRKR	* DESCRIPTION	C [W]	d.f.	D [W]	cct	bus	cct	D [W]	d.f.	C [W]	DESCRIPTION	BRKR
15A-1P	EX RECEP	600	0.5	300	1	a	2	300	0.5	600	EX RECEP	15A-1P
15A-1P	EX RECEP	600	0.5	300	3	b	4	300	0.5	600	EX RECEP	15A-1P
15A-1P	EX RECEP	600	0.5	300	5	c	6	300	0.5	600	EX RECEP	15A-1P
15A-1P	EX RECEP	600	0.5	300	7	a	8	300	0.5	600	EX RECEP	15A-1P
15A-1P	EX RECEP	600	0.5	300	9	b	10	300	0.5	600	EX RECEP	15A-1P
15A-1P	EX RECEP	600	0.5	300	11	c	12	480	0.6	800	POWER POLE (TL4)	15A-1P
15A-1P	EX RECEP	600	0.5	300	13	a	14	480	0.6	800	POWER POLE (TL4)	15A-1P
15A-1P	EX RECEP	600	0.5	300	15	b	16	480	0.6	800	POWER POLE (TL4)	15A-1P
15A-1P	EX RECEP	600	0.5	300	17	c	18	480	0.6	800	POWER POLE	15A-1P
15A-1P	EX RECEP	600	0.5	300	19	a	20	480	0.6	800	POWER POLE	15A-1P
15A-1P	EX RECEP	600	0.5	300	21	b	22	480	0.6	800	POWER POLE	15A-1P
15A-1P	EX RECEP	600	0.5	300	23	c	24	480	0.6	800	POWER POLE	15A-1P
15A-1P	EX RECEP	600	0.5	300	25	a	26	480	0.6	800	POWER POLE	15A-1P
15A-1P	EX RECEP	600	0.5	300	27	b	28	480	0.6	800	POWER POLE	15A-1P
15A-1P	EX RECEP	600	0.5	300	29	c	30	480	0.6	800	POWER POLE	15A-1P
15A-1P	EX RECEP	600	0.5	300	31	a	32	480	0.6	800	POWER POLE	15A-1P
15A-1P	EX RECEP	600	0.5	300	33	b	34	480	0.6	800	POWER POLE	15A-1P
15A-1P	EX RECEP	600	0.5	300	35	c	36	480	0.6	800	POWER POLE	15A-1P
15A-1P	EX RECEP	600	0.5	300	37	a	38	480	0.6	800	POWER POLE	15A-1P
15A-1P	EX RECEP	600	0.5	300	39	b	40	480	0.6	800	POWER POLE	15A-1P
15A-1P	EX RECEP	600	0.5	300	41	c	42	480	0.6	800	POWER POLE	15A-1P
15A-1P	EX RECEP	600	0.5	300	43	a	44	300	0.5	600	PHOTOCOPIER	15A-1P
15A-1P	POWER POLE	800	0.6	480	45	b	46	480	0.8	600	MAIL ROOM REC	15A-1P
15A-1P	POWER POLE	800	0.6	480	47	c	48	480	0.8	600	EX RECEP	15A-1P
15A-1P	POWER POLE	800	0.6	480	49	a	50	240	0.3	800	EX DOOR OPERATOR	15A-1P
15A-1P	POWER POLE	800	0.6	480	51	b	52	120	0.3	400	EX POWER CONN	15A-1P
15A-1P	POWER POLE	800	0.6	480	53	c	54	240	0.3	800	DOOR OPERATOR	15A-1P
15A-1P	POWER POLE	800	0.6	480	55	a	56	240	0.8	300	FORCE FLOW HEATER	15A-1P
15A-1P	EX RECEP	600	0.5	300	57	b	58	300	0.5	600	EX RECEP	15A-1P
15A-1P	EX RECEP	600	1	600	59	c	60	480	0.6	800	POWER POLE	15A-1P
15A-1P	EX RECEP	600	1	600	61	a	62	480	0.6	800	POWER POLE	15A-1P
15A-1P					63	b	64	480	0.6	800	POWER POLE	15A-1P
15A-1P					65	c	66	480	0.6	800	POWER POLE	15A-1P
15A-1P					67	a	68	480	0.6	800	POWER POLE	15A-1P
15A-1P					69	b	70	480	0.6	800	POWER POLE	15A-1P
15A-1P					71	c	72	360	0.6	600	RECEPTACLES	15A-1P
15A-1P					73	a	74	360	0.6	600	RECEPTACLES	15A-1P
15A-1P					75	b	76	360	0.6	600	RECEPTACLES	15A-1P
15A-1P					77	c	78	0	1			15A-1P
15A-1P					79	a	80	0	1			15A-1P
15A-1P					81	b	82	0	1			15A-1P
15A-1P					83	c	84	0	1			15A-1P

Notes:  
 Remarks: EXISTING LOADS SHOWN ARE NOT REFLECTING ACTUAL CONDITION, AS THERE IS NO SITE MEASUREMENT

CONNECTED A' 16100 W  
 CONNECTED B' 14800 W  
 CONNECTED C' 15400 W

9050 W DEMAND A'  
 8220 W DEMAND B'  
 8880 W DEMAND C'

TOTAL DEMAND AMPS **72.6 A**  
 TOTAL CONNECTED LOAD **46.3 kW**  
 TOTAL DEMAND LOAD **26.2 kW**

St. Catharine  
 Job No. **12356.101**  
 Voltage: **120 / 208**  
 Ph/Wire: **3/4**  
 Fed from: **Existing Power Panel**

Panel: **RP-2G (Existing)**  
 Date: 18/11/2013  
 Panel Mains: 225 amps  
 Mounting: Recessed  
 Tub Type: Double  
 Location: Main Breaker NO

**Panel Schedule**

BRKR	* DESCRIPTION	C [W]	d.f.	D [W]	cct	bus	cct	D [W]	d.f.	C [W]	DESCRIPTION	BRKR
15A-1P	EX RECEP	600	0.5	300	1	a	2	300	0.5	600	EX RECEP	15A-1P
15A-1P	EX RECEP	600	0.5	300	3	b	4	300	0.5	600	EX QUAD RECEP	15A-1P
15A-1P	EX RECEP	600	0.5	300	5	c	6	300	0.5	600	EX QUAD RECEP	15A-1P
15A-1P	EX RECEP	600	0.5	300	7	a	8	300	0.5	600	EX QUAD RECEP	15A-1P
15A-1P	EX RECEP	600	0.5	300	9	b	10	300	0.5	600	EX QUAD RECEP	15A-1P
15A-1P	EX RECEP	600	0.5	300	11	c	12	300	0.5	600	TRAINING B RECEPTACLES	15A-1P
15A-1P	EX RECEP	600	0.5	300	13	a	14	300	0.5	600	TRAINING C RECEPTACLES	15A-1P
15A-1P	EX RECEP	600	0.5	300	15	b	16	300	0.5	600	TRAINING D RECEPTACLES	15A-1P
15A-1P	EX RECEP	600	0.5	300	17	c	18	0	0.5			15A-1P
15A-1P	TRAINING A AV RECEPT	500	0.5	250	19	a	20	0	0.3			15A-1P
15A-1P	TRAINING B AV RECEPT	500	0.5	250	21	b	22	0	0.3			15A-1P
15A-1P	TRAINING C AV RECEPT	500	0.5	250	23	c	24	0	0.3			15A-1P
15A-1P	TRAINING D AV RECEPT	500	0.5	250	25	a	26	0	0.5			15A-1P
15A-1P	TRAINING A EX QUAD RECEPT	800	0.5	400	27	b	28	400	0.5	800	EX RECEP	15A-1P
15A-1P	TRAINING A RECEPTACLES	800	0.5	400	29	c	30	400	0.5	800	EX RECEP	15A-1P
15A-1P	TRAINING A GANG BACK BOX	800	0.5	400	31	a	32	400	0.5	800	EX RECEP	15A-1P
15A-1P	TRAINING A GANG BACK BOX	800	0.5	400	33	b	34	400	0.5	800	EX RECEP	15A-1P
15A-1P	TRAINING A GANG BACK BOX	800	0.5	400	35	c	36	400	0.5	800	EX QUAD RECEP	15A-1P
15A-1P	TRAINING A GANG BACK BOX	800	0.5	400	37	a	38	400	0.5	800	EX QUAD RECEP	15A-1P
15A-1P	TRAINING A GANG BACK BOX	800	0.5	400	39	b	40	400	0.5	800	EX RECEP	15A-1P
15A-1P	TRAINING A GANG BACK BOX	800	0.5	400	41	c	42	400	0.5	800	EX RECEP	15A-1P
15A-1P	SPARE				43	a	44	100	0.5	200	EX POWER CONN	15A-1P
15A-1P	EX MECH POWER CONN	200	0.8	150	45	b	46	180	0.8	200	EX MECH POWER CONN	15A-1P
15A-1P	EX MECH POWER CONN	200	0.8	150	47	c	48	180	0.8	200	EX MECH POWER CONN	15A-1P
15A-1P	EX MECH POWER CONN	200	0.8	150	49	a	50	240	0.3	800	EX RECEP	15A-1P
15A-1P	TRAINING D GANG BACK BOX	800	0.5	400	51	b	52	400	0.5	800	TRAINING D GANG BACK BOX	15A-1P
15A-1P	TRAINING D GANG BACK BOX	800	0.5	400	53	c	54	400	0.5	800	TRAINING D GANG BACK BOX	15A-1P
15A-1P	EX RECEP	600	0.5	300	55	a	56	240	0.3	800	EX POWER CONN	15A-1P
15A-1P	EX RECEP	600	0.5	300	57	b	58	240	0.3	800	EX QUAD RECEP	15A-1P
15A-1P	EX RECEP	600	0.5	300	59	c	60	240	0.3	800	EX QUAD RECEP	15A-1P
15A-1P	EX RECEP	600	0.5	300	61	a	62	240	0.3	800	EX QUAD RECEP	15A-1P
15A-1P	EX RECEP	600	0.5	300	63	b	64	240	0.3	800	EX QUAD RECEP	15A-1P
15A-1P	EX RECEP	600	0.5	300	65	c	66	240	0.3	800	EX QUAD RECEP	15A-1P
15A-1P	EX RECEP	600	0.5	300	67	a	68	240	0.3	800	EX QUAD RECEP	15A-1P
15A-1P	EX RECEP	600	0.5	300	69	b	70	240	0.3	800	EX QUAD RECEP	15A-1P
15A-1P	TRAINING A GANG BACK BOX	800	0.5	400	71	c	72	480	0.6	800	EX QUAD RECEP	15A-1P
15A-1P	TRAINING A GANG BACK BOX	800	0.5	400	73	a	74	400	0.5	800	TRAINING B GANG BACK BOX	15A-1P
15A-1P	TRAINING A GANG BACK BOX	800	0.5	400	75	b	76	400	0.5	800	TRAINING B GANG BACK BOX	15A-1P
15A-1P	TRAINING B GANG BACK BOX	800	0.5	400	77	c	78	400	0.5	800	TRAINING B GANG BACK BOX	15A-1P
15A-1P	TRAINING B GANG BACK BOX	800	0.5	400	79	a	80	400	0.5	800	TRAINING B GANG BACK BOX	15A-1P
15A-1P	TRAINING B GANG BACK BOX	800	0.5	400	81	b	82	400	0.5	800	TRAINING B GANG BACK BOX	15A-1P
15A-1P	SPARE				83	c	84	400	0.5	800	TRAINING B GANG BACK BOX	15A-1P

Notes:  
 Remarks: EXISTING LOADS SHOWN ARE NOT REFLECTING ACTUAL CONDITION, AS THERE IS NO SITE MEASUREMENT

CONNECTED A' 16400 W  
 CONNECTED B' 18300 W  
 CONNECTED C' 17100 W

7610 W DEMAND A'  
 8780 W DEMAND B'  
 8420 W DEMAND C'

TOTAL DEMAND AMPS **68.9 A**  
 TOTAL CONNECTED LOAD **51.8 kW**  
 TOTAL DEMAND LOAD **24.8 kW**

**MECHANICAL EQUIPMENT SCHEDULE**

EQUIPMENT DESCRIPTION	DESCRIPTION	ROOM LOCATION	VOLTAGE	PHASE	AMPS (MCA)	KVA	HORSE POWER	MOTOR SUPPLIED FROM	FEEDER TYPE & SIZE (RW90)	PROTECTION			STARTER			ACCESSORIES			F/A	REMARKS
										TIME DELAY FUSE (AMPS)	NON-TIME DELAY FUSE (AMPS)	ORCUT BRKR.	MANUAL STARTER	COMBINATION	CONTRACTOR	STARTER	STARTER	STARTER		
AC-1	AC SPLIT UNIT	TRAINING ROOM A						SEE FLOOR PLAN	3#1/2 RW90 IN 3/4"											
CU-1	CONDENSING SPLIT UNIT	TRAINING ROOM A	208	1	15			SEE FLOOR PLAN	3#1/2 RW90 IN 3/4"			20A-2P								
AC-2	AC SPLIT UNIT	TRAINING ROOM B						SEE FLOOR PLAN	3#1/2 RW90 IN 3/4"											
CU-2	CONDENSING SPLIT UNIT	TRAINING ROOM B	208	1	15			SEE FLOOR PLAN	3#1/2 RW90 IN 3/4"			20A-2P								
AC-3	AC SPLIT UNIT	TRAINING ROOM C						SEE FLOOR PLAN	3#1/2 RW90 IN 3/4"											
CU-3	CONDENSING SPLIT UNIT	TRAINING ROOM C	208	1	15			SEE FLOOR PLAN	3#1/2 RW90 IN 3/4"			20A-2P								
AC-4	AC SPLIT UNIT	TRAINING ROOM D						SEE FLOOR PLAN	3#1/2 RW90 IN 3/4"											
CU-4	CONDENSING SPLIT UNIT	TRAINING ROOM D	208	1	15			SEE FLOOR PLAN	3#1/2 RW90 IN 3/4"			20A-2P								
AC-5	AC SPLIT UNIT	IT TRAINING ROOM						SEE FLOOR PLAN	3#1/2 RW90 IN 3/4"											
CU-5	CONDENSING SPLIT UNIT	IT TRAINING ROOM	208	1	15			SEE FLOOR PLAN	3#1/2 RW90 IN 3/4"			20A-2P								
FFH-1	ELECTRIC FORCE FLOW HEATER	ENTRANCE VESTIBULE	120	1		1/4		SEE FLOOR PLAN	2#1/2 RW90 IN 3/4"			15A-1P								

St. Catharine  
 Job No. **12356.101**  
 Voltage: **120 / 208**  
 Ph/Wire: **3/4**  
 Fed from: **Existing Power Panel**

Panel: **RP-2GA (New 42ccts)**  
 Date: 26/11/2013  
 Panel Mains: 225 amps  
 Mounting: Recessed  
 Tub Type: Single  
 Location: Main Breaker NO

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